<u>SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES</u> <u>SVIMS-SRI PADMAVATHI MEDICAL COLLEGE FOR WOMEN</u> TIRUPATI – 517 507



MBBS COURSE

Agenda

3rd BOARD OF STUDIES MEETING 1stMBBS, 2nd MBBS, 3rd MBBS Part-I & II PROFESSIONALS

As per NMC Regulations on Graduate Medical Education as amended up to 2023 (Applicable for students admitted to First MBBS from Academic Year 2019-20 Onwards)

24-07-2024 (1st MBBS), 25-07-2024 (2nd MBBS), 31-07-2024 (3rd MBBS Part-I), 30-07-2024 (3rd MBBS Part-II)

SVIMS UNIVERSITY

(A University established by an act of A.P State Legislature)

TIRUPATI

SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES SVIMS-SRI PADMAVATHI MEDICAL COLLEGE FOR WOMEN **Tirupati**

MBBS COURSE

3rd Board of Studies Meeting held on 24.07.2024(1st MBBS), 25.07.2024 (2nd MBBS), 3rd MBBS Part-I (31.07.2024) & 3rd MBBS Part-II (30.07.2024)

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18. Dr. Pankaj B Shah Professor & Associate Dean (Research) Department of Community Medicine SRMC, Chennai - Virtual	- External expert
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 Dr. K. Jyothi Prasad Professor & HoD Department of Forensic Medicine SVIMS-SPMCW, Tirupati 	- Member
20. Dr. Kilari Bhaskar Professor & Head Department of Forensic Medicine & Toxicology Government Medical College Eluru - Virtual	- External expert
Subject experts for Medicine:	
 Dr. J. Harikrishna Professor & HoD Department of General Medicine SVIMS, Tirupati 	- Member
22. Dr. Ravi. K Professor & HoD, Department of Medicine Bangalore Medical College and Research Institute Fort, K. R. Road, Bangalore - Virtual	- External expert
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23. Dr. Y. Mutheeswaraiah Professor & HoD Department of General Surgery SVIMS-SPMCW, Tirupati	- Member
24. Dr. S. Nagamuneiah Professor, Department of General Surgery ACSR Govt., Medical College Nellore	- External expert
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25. Dr. J. Malathi Professor & HoD Department of OBG SVIMS-SPMCW	- Member
26. Dr. Keshava Ganghadharan Professor& HOD Department of OBG PES Medical College, Kuppam - Virtual	- External Expert

Subject experts for ENT:

- 27. Dr. S. B. Amarnath Professor & HoD Department of ENT, SVIMS-SPMCW
- 28. Dr. Ravi. D Professor & Head, Department of ENT Mandya Institute of Medical Sciences Mandya, Karnataka - Virtual

Subject experts for Ophthalmology:

29. Dr. Prabhanjankumar - Member
 Associate Professor & HoD
 Department of Ophthalmology
 SVIMS-SPMCW
 30. Dr. V. Vijaya Lakshmi - External Expert

- Member

- Member

- External Expert

- External Expert

Professor & Head Department of Ophthalmology Govt. Medical College, Guntur - Virtual

Subject experts for Pediatrics:

- 31. Dr. N. PunithPatakProfessor & HoDDepartment of Pediatrics, SVIMS-SPMCW
- 32. Dr. Vinayaka.G
 Professor & HOD
 Subbaiah Institute of Medical sciences
 Shimuga Virtual

Subject experts for Orthopedics:

- 33. Dr. Venugopal Member
 Associate Professor
 Department of Orthopedics
 SVIMS-SPMCW
 34. Dr Arun H S External Expert
 - Professor Department of Orthopedics Sri DevarajUrs Medical College Tamaka, Kolar - Virtual

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I. <u>CBME Regulations</u>

1. Preamble:

The new Graduate Medical Education Regulations attempts to stand on the shoulder of the contributions and the efforts of resource persons, teachers and students (past and present). It intends to take the learner to provide healthcare to the evolving needs of the nation and the world.

About 25years have passed since the existing Regulations on Graduate Medical Education, 1997 were notified, necessitating are look at all aspects of the various components in the existing regulations and adapt them to the changing demography, socio-economic context, perceptions, values, advancements in medical education and expectations of stake holders. Emerging healthcare issues particularly in the context of emerging diseases, impact of advances in science and technology and shorter distances on diseases and their management also need consideration. The strong and forward-looking fundamentals enshrined in the Regulations on Graduate Medical Education, 1997 has made this job easier. A comparison between the 1997 Regulations and proposed Graduate Medical Education Regulations, 2019 will reveal that the 2019 Regulations have evolved from several key principles enshrined in the 1997 Regulations.

The thrust in the new regulations is continuation and evolution of thought in medical Education making it more learner-centric, patient-centric, gender- sensitive, outcome -oriented and environment appropriate. The result is an outcome driven curriculum which conforms to global trends. Emphasis is made on alignment and integration of subjects both horizontally and vertically while respecting the strengths and necessity of subject-based instruction and assessment. This has necessitated a deviation from using "broad competencies"; instead, the reports have written end of phase subject (sub) competencies. These "sub-competencies" can be mapped to the global competencies in the Graduate Medical Education Regulations.

The importance of ethical values, responsiveness to the needs of the patient and acquisition of communication skills is underscored by providing dedicated curriculum time in the form of a longitudinal program based on Attitude, Ethics and Communication (AETCOM) competencies. Great emphasis has been placed on collaborative and inter-disciplinary team work, professionalism, altruism and respect in professional relationships with due sensitivity to differences in thought, social and economic position and gender.

2. Objectives of the Indian Graduate Medical Training Programme:

The undergraduate medical education program is designed with a goal to create an "Indian Medical Graduate" (IMG) possessing requisite knowledge, skills, attitudes, values and responsiveness, so that she may function appropriately and effectively as a physician of first contact of the community while being globally relevant. To achieve this, the following national and institutional goals for the learner of the Indian Medical Graduate training program are hereby prescribed.

3. National Goals:

At the end of under graduate program, the SVIMS-SPMCW Graduate should be able to:

- 1. Recognize "health for all" as a national goal and health right of all citizens and by undergoing training for medical profession fulfill her social obligations towards realization of this goal.
- 2. Learn key aspects of National policies on health and devote herself to its practical implementation.
- 3. Achieve competence in practice of holistic medicine, encompassing promotive, preventive, curative and rehabilitative aspects of common diseases.
- 4. Develop scientific temper, acquire educational experience for proficiency in profession and promote healthy living.
- 5. Become exemplary citizen by observance of medical ethics and fulfilling social and professional obligations, so as to respond to national aspirations.

4. Institutional Goals:

The Indian Medical Graduates coming out of a SVIMS-Sri Padmavathi Medical College should:

- i. Be competent in diagnosis and management of common health problems of the individual and the community, commensurate with her position as a member of the health team at the primary, secondary or tertiary levels, using her clinical skills based on history, physical examination and relevant investigations.
- ii. Be competent to practice preventive, promotive, curative, palliative and rehabilitative medicine in respect to the commonly encountered health problems.
- iii. Appreciate rationale for different therapeutic modalities; be familiar with the administration of the "essential drugs" and their common side effects.
- iv. Appreciate the socio-psychological, cultural, economic and environmental factors affecting health and develop humane attitude towards the patients in discharging one's professional responsibilities.
- v. Possess the attitude for continued self-learning and to seek further expertise or to pursue research in any chosen area of medicine, action research and documentation skills.
- vi. Be familiar with the basic factors which are essential for the implementation of the National Health Programs including practical aspects of the following:
 - 1. Family Welfare and Maternal and Child Health (MCH);
 - 2. Sanitation and water supply;
 - 3. Prevention and control of communicable and non-communicable diseases;
 - 4. Immunization;
 - 5. Health Education and advocacy;
 - 6. Indian Public Health Standards(IPHS) at various level of service delivery;
 - 7. Bio-medical waste disposal
 - 8. Organizational and or institutional arrangements.

- vii. Acquire basic management skills in the area of human resources, materials and resource management related to health care delivery, general and hospital management, principal inventory skills and counseling.
- viii. Be able to identify community health problems and learn to work to resolve these by designing, instituting corrective steps and evaluating outcome of such measures with maximum community participation.
- ix. Be able to work as a leading partner in health care teams and acquire proficiency in communication skills.
- x. Be competent to work in a variety of health care settings.
- xi. Have personal characteristics and attitudes required for professional life including personal integrity, sense of responsibility and depend ability and ability to relate to or show concern for other individuals.

5. Goals for the Learner:

In order to fulfill these goals, the Indian Medical Graduate must be able to function in the following roles appropriately and effectively:-

- i. Clinician who understands and provides preventive, promotive, curative, palliative and holistic care with compassion.
- ii. Leader and member of the health care team and system with capabilities to collect, analyze, synthesize and communicate health data appropriately.
- iii. Communicator with patients, families, colleagues and community.
- iv. Lifelong learner committed to continuous improvement of skills and knowledge.
- v. Professional, who is committed to excellence, is ethical, responsive and accountable to patients, community and profession.
- vi. Critical thinker who demonstrates problem solving skills in professional practice
- vii. Researcher who generates and interprets evidence

6. Competency Based Training Programme of the Indian Medical Graduate

Competency based learning would include designing and implementing medical education. Curriculum that focuses on the desired and observable ability in real life situations. In order to effectively fulfill the roles, the Indian Medical Graduate would have obtained the following set of competencies at the time of graduation:

Clinician, who understands and provides preventive, promotive, curative, palliative and holistic care with compassion.

- Demonstrate knowledge of normal human structure, function and development from a molecular, cellular, biologic, clinical, behavioral and social perspective.
- Demonstrate knowledge of abnormal human structure, function and development from a molecular, cellular, biological, clinical, behavioral and social perspective.
- Demonstrate knowledge of medico-legal, societal, ethical and humanitarian principles that influence healthcare.
- Demonstrate knowledge of national and regional health care policies including the National Health Mission that incorporates National Rural Health Mission (NRHM) and National Urban Health Mission (NUHM), frameworks, economics and systems that influence health promotion, healthcare delivery, disease prevention, effectiveness, responsiveness, quality and patient safety.
- Demonstrate ability to elicit and record from the patient, and other relevant sources including relatives and caregivers, a history that is complete and relevant to disease identification, disease prevention and health promotion.
- Demonstrate ability to elicit and record from the patient, and other relevant sources. Including relatives and caregivers, a history that is contextual to gender, age, vulnerability, social and economic status, patient preferences, beliefs and values.
- Demonstrate ability to perform a physical examination that is complete and relevant to disease identification, disease prevention and health promotion.
- Demonstrate ability to perform a physical examination that is contextual to gender, social and economic status, patient preferences and values.

- Demonstrate effective clinical problem solving, judgment and ability to interpret and integrate available data in order to address patient problems, generate differential diagnoses and develop individualized management plans that include preventive, promotive and therapeutic goals.
- Maintain accurate, clear and appropriate record of the patient in conformation with legal and administrative frameworks.
- Demonstrate ability to choose the appropriate diagnostic tests and interpret these tests based on scientific validity, cost effectiveness and clinical context.
- Demonstrate ability to prescribe and safely administer appropriate therapies including nutritional interventions, pharmacotherapy and interventions based on the principles of rational drug therapy, scientific validity, evidence and cost that conform to established national and regional health programmers and policies for the following:
 - o Disease prevention,
 - o Health promotion and cure,
 - o Pain and distress alleviation, and
 - o Rehabilitation and palliation.
- Demonstrate ability to provide a continuum of care at the primary(including home care) and/or secondary level that addresses chronicity, mental and physical disability,
- Demonstrate ability to appropriately identify and refer patients whom may requirespecialized or advanced tertiary care.
- Demonstrate familiarity with basic, clinical and translational research as it applies to the care of the patient.

Leader and member of the healthcare team and system

- Work effectively and appropriately with colleagues in an inter-professional healthcare team respecting diversity of roles, responsibilities and competencies of other professionals.
- Recognize and function effectively, responsibly and appropriately as a health care team leader in primary and secondary health care settings.
- · Educate and motivate other members of the team and work in a collaborative and

collegial fashion that will help maximize the health care delivery potential of the team.

- Access and utilize components of the health care system and health delivery in a_ manner that is appropriate, cost effective, fair and incompliance with the national healthcare priorities and policies, as well as be able to collect, analyze and utilize health data.
- Participate appropriately and effectively in measures that will advance quality of health care and patient safety within the health care system.
- Recognize and advocate health. promotion, disease prevention and health care quality improvement through prevention and early recognition: in a) life style diseases and b) cancer, in collaboration with other members of the health care team.

Communicator with patients, families, colleagues and community

- Demonstrate ability to communicate adequately, sensitively, effectively and respectfully with patients in a language that the patient understands and in a manner that will improve patient satisfaction and health care outcomes.
- Demonstrate ability to establish professional relationships with patients and families that are positive, understanding, humane, ethical, empathetic, and trustworthy.
- Demonstrate ability to communicate with patients in a manner respectful of patient's preferences, values, prior experience, beliefs, confidentiality and privacy.
- Demonstrate ability to communicate with patients, colleagues and families in a manner that encourages participation and shared decision- making.

7. Lifelong learner committed to continuous improvement of skills and knowledge

- Demonstrate ability to perform an objective self-assessment of knowledge and skills, continue learning, refine existing skills and acquire new skills.
- Demonstrate ability to apply newly gained knowledge or skills to the care of the patient.
- Demonstrate ability to introspect and utilize experiences, to enhance personal and professional growth and learning.

- Demonstrate ability to search (including through electronic means), and critically reevaluate the medical literature and apply the information in the care of the patient.
- Be able to identify and select an appropriate career path way that is professionally rewarding and personally fulfilling.

Professional who is committed to excellence, is ethical, responsive and accountable to patients, community and the profession

- Practice selflessness, integrity, responsibility, accountability and respect.
- Respect and maintain professional boundaries between patients, colleagues and society.
- Demonstrate ability to recognize and manage ethical and professional conflicts.
- Abide by prescribed ethical and legal codes of conduct and practice.
- Demonstrate a commitment to the growth of the medical profession as a while

II. <u>Phase Wise Training and Time Distribution For Professional</u> <u>Development</u>

The Competency based Undergraduate Curriculum and Attitude, Ethics and Communication (AETCOM) course, as published by the Medical Council of India and also made available on the Council's website, shall be the curriculum for the batches admitted in MBBS from the academic year 2019-20 onwards.

In order to ensure that training is in alignment with the goals and competencies required for a medical graduate, there shall be Foundation Course to orient medical learners to MBBS programme, and provide them with requisite knowledge, communication (including electronic), technical and language skills.

1. Training period, time distribution & University examinations:

SVIMS University shall organize admission timing and admission process in such a way that teaching in the first Professional year commences with induction through the Foundation Course by the 1st of August of each year from academic year 2024-25. There shall be no admission of students in respect of any academic session beyond 30th August from academic year 2024-25 or as per the guidelines notified by NMC from time to time. The University shall not grant admission of any student after the last date specified by NMC.

Every learner shall undergo a period of certified study extending over 4½ academic years, divided into four professional years from the date of commencement of course to the date of completion of examination which shall be followed by one year of compulsory rotating internship.

Each academic year will have at least 39 teaching weeks with a minimum of eight hours of working on each day including one hour as lunch break.

Didactic lectures shall be one third of the schedule two third of the schedule shall include interactive sessions, practical, clinical or/and group discussions. The learning process shall include clinical experiences, problem- oriented approach, case studies and community health care activities.

Teaching and learning shall be aligned and integrated across specialties both vertically and horizontally for better learner comprehension. Leaner centered learning methods shall include Early Clinical Exposure, problem-oriented learning, case studies, community- oriented learning, self- directed, experiential learning & Electives.

At the end of each professional year university examination will be conducted. If any student fails to clear university examination, she will appear in supplementary examination.

Supplementary examinations and declaration of results shall be processed within 3-6 weeks from the date of declaration of the results of the main examination for every professional year, so that the candidates, who pass, can join the main batch for progression.

If the candidate fails in the supplementary examination of first MBBS, she shall join the batch of next academic/subsequent year. There shall be no supplementary batches. Partial attendance of examination in any subject shall be counted as an attempt.

If the MBBS students' attendance is less than 75% for theory and less than 80% for practical/ clinical training, the student cannot appear in supplementary examination following the regular annual examination. Such student is required to take classes with junior batch commencing in the next academic year to compensate for her attendance deficit, especially the course, she has missed. She will be eligible to appear in the examination in the next academic year only.

However, the college authorities will arrange additional classes to compensate for attendance deficit before the commencement of annual examination.

A candidate, who fails in the First Professional examination, shall not be allowed to join the Second Professional.

No student shall be allowed more than four (04) attempts for first year (first professional MBBS). In these four years, the maximum number of attempts permitted shall be four (04) which include supplementary examination also.

- A candidate, who fails in the second Professional examination, shall be allowed to join the third Professional Part I training, however she shall not be allowed to appear for the examination unless she has passed second professional examination.
- A candidate who fails in the third Professional (Part I) examination shall be allowed to join third Professional part II training, however she shall not be allowed to appear for the examination unless she has passed third Professional (Part I) examination.

Phase wise duration

The period of 4¹/₂ years is divided as follows:

Phase I - Total 12 months

Phase I First Professional phase of 12 months including Foundation Course of one week and university exams. It shall consist of - Anatomy, Physiology, Biochemistry, introduction to Community Medicine, Humanities, Professional development including Attitude, Ethics & Communication (AETCOM) module, family adoption program through village outreach where-in each student shall adopt minimum of three(03) families and preferably at least five (05) families, Pandemic module and early clinical exposure, ensuring alignment & all types of integration and simulation-based learning.

Phase II - Total 12 months

Phase II - **Second Professional (12 months) including university exams.** It will consist of Pathology, Pharmacology, Microbiology, family visit under Community Medicine, General Surgery, General Medicine & Obstetrics & Gynecology Professional development including AETCOM module, simulation-based learning and introduction to clinical subjects ensuring both alignment & all types of integration.

The clinical exposure to learners will be in the form of learner-doctor method of clinical training in all phases. The emphasis will be on primary, preventive and comprehensive healthcare. Apart of training during clinical postings should take place at the primary level of healthcare. It is desirable to provide learning experiences in secondary health care, wherever possible. This will involve

- i. Experience in recognizing and managing common problems seen in outpatient, inpatient and emergency settings,
- ii. Involvement in patient care as a team member,
- iii. Involvement in patient management and performance of basic procedures.

Phase III - 30months

a. Third Professional Part I (12months, including University exams)

Forensic Medicine and Toxicology, Community Medicine, Medicine & allied, Surgery & allied, Pediatrics and Obstetrics& Gynecology including AETCOM, Pandemic module, Clinical teaching in General Medicine, General Surgery, Obstetrics & Gynecology, Pediatrics, Orthopedics, Dermatology, Community Medicine, Psychiatry, Respiratory Medicine, Radio-diagnosis (& Radiotherapy) and Anesthesiology & Professional development.

b. Electives –one month in 2 blocks, 15 days each will be commenced after annual exam of III MBBS Part I.

- c. Third Professional Part II (18months, including University exam)-Subjects include:
 - Medicine and allied specialties (General Medicine, Psychiatry, Dermatology, Venereology and Leprosy (DVL), Respiratory Medicine including Tuberculosis)
 - Surgery and allied specialties (General Surgery, Otorhinolaryngology, Ophthalmology, Orthopedics, Dentistry, Physical Medicine and rehabilitation, Anesthesiology and Radio diagnosis).
 - Obstetrics and Gynecology (including Family Welfare)
 - Pediatrics
 - AETCOM module

2. Distribution of teaching hours phase wise.

First, second and third Professional part-I, teaching hours;

Time allotted: 12 months (approx. 52weeks)

Time available: Approx.39weeks (excluding13weeks) (39hours/week)

Prelim/University Exam & Results: 9weeks

Vacation: 2 weeks

Public Holidays : 2 weeks

Time distribution in weeks: 39 weeks x 39hours =1521 hours for Teaching-Learning

Final MBBS part-2, teaching hours:

Time allotted: 18months (approx.78weeks) Time available: Approx. 62 weeks (excluding 16 weeks) (39 hours/ week) Prelim / University Exam & Results: 10 weeks Vacation: 3 Weeks Public Holidays: 3 Weeks

Timedistributioninweeks:62 x 39 hrs=2418hrsavailableforTeaching-Learning

(ClinicalPostings:15 hours/week II MBBS on wards included in academic schedule)

These are attached in separate annexure with all relevant tables.

Academic calendar shall be as per the Table 1.

Distribution of subjects for Professional Phase -wise training is given in Table

2. Minimum teaching hours prescribed in various disciplines are given in

Tables 3-7. Distribution and duration of clinical postings is given in Table 8.

Time allotted excludes time reserved for internal University examinations, and vacation.

Second professional clinical postings shall commence before/ after declaration of results of the first professional phase examinations, as decided by the institution/University.

Third Professional parts I and part II clinical postings shall start no later than two weeks after the completion of the previous professional examination.

A total of 25% of allotted time of third Professional shall be utilized for integrated learning with phase I and II subjects. This will be included in the assessment of clinical subjects.

Note:

• The period of training is minimum suggested. Adjustments where required depending on availability of time may be made by the concerned college/institution. This period of training does not include university examination period.

• An exposure to skills lab for atleast two (02) weeks prior to clinical postings shall be made available to all students.

3. New teaching/learning elements

a. Foundation Course

Goal: The goal of the Foundation Course is to prepare a learner to study medicine effectively.

Objectives:

(a) **Orient the learner to:**

- The medical profession and the physician's role in society
- The MBBS programme
- Alternate health systems i.e. AYUSH in India and history of Medicine
- Medical ethics, attitudes and professionalism
- Healthcare system and its delivery
- National health programmes and policies
- Universal precautions and vaccinations
- Patient safety and biohazard safety
- Principles of primary care (general and community based care)

• The academic ambience

(b) Enable the learner to acquire enhanced skills in:

- Language
- Interpersonal relationships
- Communication
- Learning including self-directed learning
- Time management
- Stress management
- Use of information technology, and artificial intelligence

(c) Train the learner to provide:

- First-aid
- Basic life support
- In addition to the above, learners may be enrolled in one of the following programmes which will be run concurrently:
- Local language programme
- English language programme
- Computer skills
- These may be done in the last two hours of the day. These sessions must be as interactive as possible.
- Sports (to be used through the Foundation Course as protected 04hours/week).
- Leisure and extracurricular activity (to be used through the Foundation Course as projected 02 hours per week).
- Institutions shall develop learning modules and identify the appropriate resource persons for their delivery.
- The time committed for the Foundation Course may not be used for any other curricular activity.

- The Foundation Course shall have a minimum of 75% attendance of all students mandatorily. This will be certified by the Dean of the college.
- The Foundation Course shall be organized by the Coordinator appointed by the Dean of the college and shall be under supervision of the Heads of MBBS phase1 departments.
- Every college shall arrange for a meeting with parents/wards of all students and records of the same shall be made available to UGMEB of NMC.

b. Early Clinical Exposure

Objectives: The objectives of early clinical exposure of the first-year medical learners are to enable the learner to:

- Recognize the relevance of basic sciences in diagnosis, patient care and management,
- Provide a context that will enhance basic science learning,
- Relate to experience of patients as a motivation to learn,
- Recognize attitude, ethics and professionalism as integral to doctor- Patient relationship,
- Understand the socio-cultural context of disease through the study of humanities.

Elements

- Basic science correlation: i.e. apply and correlate principles of basic sciences as they relate to patient care (this shall be part of integrated modules).
- Clinical skills: to include basic skills in interviewing patients, doctorpatient communication, ethics and professionalism, critical thinking and analysis and self-learning (this training shall be imparted in the time allotted for early clinical exposure).
- Humanities: to introduce learners to a broader understanding of the socio-economic frame work and cultural context with in which health is delivered through the study of humanities and social sciences.

c. Electives:

Objectives: To provide the learner with opportunities:

- For diverse learning experiences,
- It is mandatory for learners to do an elective. The elective time shall not be used to make up for missed clinical postings, shortage of attendance or other purposes.
- Institutions will pre-determine the number and nature of electives, names of the supervisors, and the number of learners in each
- Elective based on the local conditions, available resources and faculty.
- Electives on topics in areas such as Research methodology, Use of Artificial intelligence and computers in Health and Medical Education, Health Management, Health economics, Indian system of medicine, Medical photography /clinical photography, Global health, Evidence based medicine, Art and music in medicine, Literary activities, etc. may be provided by the college/ institution.
- It shall be preferable that elective choices are made available to the learners in the beginning of the academic year.
- The learner must submit a learning log book based on both blocks of the electives.
- 75% attendance in the electives and submission of log book maintained during electives is required for eligibility to appear in the final MBBS examination/ NEXT.
- Institutions may use part of this time for strengthening basic skill certification.
- The student has to choose electives after completion of 3rd MBBS Part-I Examinations for a period of 1 month, 15 days in each block of laboratory & Clinical specialty departments of SVIMS.

Block1	Block2
Laboratory Experience:	Clinical Specialty Experience:
Pathology	Emergency room
Microbiology	CICU (Department of Cardiology)
Biochemistry	Psychiatry
Endocrinology lab	Dermatology
Pharma co-vigilance and clinical pharmacology	Oncology
Rural Community Health center	Endocrinology and Diabetes
Research	Nephrology
Student initiated research	Neurosurgery
Participation in faculty research	Cardiology / Cardiac Surgery
Community and epidemiologic surveys	GI surgery
Virology	Neurology
Blood Bank	Primary Health Center

d. Professional Development including Attitude, Ethics and Communication Module (AETCOM)

Objectives of the programme: At the end of the programme, the learner must demonstrate ability to:

- Understand and apply principles of bioethics and law as they apply to medical practice and research, understand and apply the principles of
- Clinical reasoning as they apply to the care of the patients,
- Understand and apply the principles of system-based care as they relate to the care of the patient,
- Understand and apply empathy and other human values to the care of the patient,
- Communicate effectively with patients, families, colleagues and other health care professionals,
- Understand the strengths and limitations of alternative systems of medicine,
- Respond to events and issues in a professional, considerate and humane fashion,
- Translate learning from the humanities in order to further his professional and personal growth.

Learning experiences:

- This will be a longitudinal programme spread across the continuum of the MBBS programme including internship,
- Learning experiences shall include small group discussions, patient care scenarios, workshops, seminars, role plays, lectures etc.
- Attitude, Ethics& Communication Module (AETCOM module) developed by the erstwhile Medical Council of India should be used longitudinally for purposes of instruction.

• 75% attendance in Professional Development Programme (AETCOM Module) shall be mandatory for eligibility to appear for final examination in each professional year.

Internal Assessments hall include:

- Written tests comprising of short notes and creative writing experiences, OSCE based clinical scenarios/viva voce.
- At least one question in each paper of each clinical specialty in the University examination shall test knowledge competencies acquired during the professional development programme.
- Skill competencies acquired during the Professional Development Programme must be tested during the clinical, practical and viva voce.

e. Learner-doctor method of clinical training (Clinical Clerkship)

a. Goal:

- To provide learners with experience in
- Longitudinal patient care,
- Being part of the health care team,
- Hands-on care of patients in outpatient and in-patient setting.

b. Structure:

- The first clinical posting in second professional shall orient learners to the patient, their roles and the specialty.
- The learner-doctor programme shall progress as outlined in Table 9.
- The learner shall function as a part of the health care team with the following responsibilities:
 - Be a part of the units out-patient services on admission days,
 - Remain with the admission unit until at least 6 PM except during designated class hours,
 - Be assigned patients admitted during each admission day for whom he will undertake responsibility, under the supervision of a senior resident or faculty member,
 - Participate in the unit rounds on its admission day and will present the assigned patients to the supervising physician,
- Follow the patient's progress throughout the hospital stay until discharge,
- Participate, under supervision, in procedures, surgeries, deliveries etc. of assigned patients,
- Participate in unit rounds on at least one other day of the week excluding the admission day,
- Discuss ethical and other humanitarian issues during unit rounds,
- Attend all scheduled classes and educational activities,
- Document his observations in a prescribed log book/case record.

No learner will be given independent charge of the patient in the capacity of primary

physician of the concerned patient.

The supervising physician shall be responsible for all patient care decisions and guide the learner from time to time as required.

f. Assessment:

- A designated faculty member in each unit will coordinate and facilitate the activities of the learner, monitor progress, provide feedback and review the log book/ case record.
- The logbook/ case record must include the written case record prepared by the learner including relevant investigations, treatment and its rationale, hospital course, family and patient discussions, discharge summary etc.
- The log book shall also include records of outpatients assigned. Submission of the log book/ case record to the department is required for eligibility to appear for the final examination of the subject.

i. Eligibility to appear for Professional examinations

The performance in essential component soft training are to be assessed, based on:

(a) Attendance

- There shall be a minimum of 75% attendance in theory and 80% in practical /clinical for eligibility to appear for the examinations in that subject. In subjects that are taught in more than one phase-the learner must have 75% attendance in theory and 80% in practical in each phase of instruction in that subject. There shall be minimum of 80% attendance in family visits under Family adoption programme. Each student shall adopt minimum 3 families and preferably five families. The details shall be as per Family Adoption Program guidelines.
- If an examination comprises more than one subject (for e.g., General Surgery and allied branches), the candidate must have a minimum of 75% attendance in each subject including its allied branches, and 80% attendance in each clinical posting.
- Learners who do not have atleast 75% attendance in the electives will not be eligible for the Third Professional –Part II examination/ NEXT.
- A candidate lacking in the prescribed attendance and progress in any subject(s) in theory or practical should not be permitted to appear for the examination in that subject(s).

(b) Internal Assessment:

Internal assessment shall be based on day-to-day assessment. It shall relate to different ways in which learners participate in learning process including assignments, preparation for seminar, clinical case presentation, preparation of clinical case for discussion, clinical case study/problem solving exercise, participation in project for healthcare in the community. Internal assessments shall not be added to summative assessment. However, internal assessment should be displayed under a separate column in detailed marks card.

(c) Learners must have completed the required certifiable competencies for that phase of training and completed the logbook Appropriate for that phase of training to be eligible for appearing at the final university examination of that subject.

(d) Regular periodic examinations shall be conducted throughout the course. There shall be no less than three internal assessment examinations in each subject of first and second professional year, and no less than two examinations in each subject of final professional year. An end of posting clinical assessment shall be conducted for each clinical posting in each professional year.

- When subjects are taught in more than one phase, the internal assessment must be done in each phase and must contribute proportionately to final assessment. For example, General Medicine must be assessed in second Professional, third Professional Part I and third Professional Part II, independently.
- Day to day records and log book (including required skill certifications) should be given importance in internal assessment. Internal assessment should be based on competencies and skills.
- The final internal assessment in a broad clinical specialty (e.g., Surgery and allied specialties etc.)shall comprise of marks from all the constituent specialties. The proportion of the marks for each constituent specialty shall be determined by the time of instruction allotted to each.
- Learners must secure at least 50% marks of the total marks (combined in theory and practical / clinical; not less than 40% marks in theory and practical separately) for internal assessment in a particular subject in order to be eligible for appearing at the final University examination of that subject. Internal assessment marks will reflect as separate head of passing at the summative examination.
- The results of internal assessment should be displayed on the notice board within

one week of the test.

• Universities shall guide the colleges regarding formulating policies for remedial measures for students who are either not able to score qualifying marks or have missed on some assessments due to any reason.

ii. University Examinations:

University examinations are to be designed with a view to as certain whether the candidate has acquired the necessary knowledge, minimal level of skills, ethical and professional values with clear concepts of the fundamentals which are necessary for him/her to function effectively and appropriately as a physician of first contact.

Assessment shall be carried out on an objective basis to the extent possible.

- Nature of questions shall include different types such as structured assays (Long-Answer Questions -LAQ), Short-Answer Questions (SAQ) and objective type questions (e.g. Multiple Choice Questions MCQ). Marks for each part shall be indicated separately. MCQs shall be accorded a weightage of not more than 20% of the total theory marks. Practical/clinical examinations shall be conducted in the laboratories and /or hospital wards. The objective will be to assess proficiency and skills to conduct experiments, interpret data and form logical conclusion. Clinical cases kept in the examination must be common conditions that the learner may encounter as a physician of first contact in the community. Selection of rare syndromes and disorders a examination cases is to be discouraged. Emphasis should be on candidate's capability to elicit history, demonstrate physical signs, write a case record, analyze the case and develop a management plan.
- Viva/oral examination should assess approach to patient management, emergencies, and attitudinal, ethical and professional values. Candidate's skill in interpretation of common investigative data, X-rays, identification of specimens, ECG, etc. is to be also assessed.

University Examinations shall be held as under:

(a) First Professional

The first Professional examination shall be held at the end of first Professional training (in the 12th month of that training),in the subjects of Anatomy, Physiology and Biochemistry.

(b) Second Professional

The second Professional examination shall be held at the end of second professional training(12th month of that training), in the subjects of Pathology, Microbiology, and Pharmacology.

(C) Third Professional

• Third Professional Part I examination shall be held at end of third Professional part 1 of training (12th month of that training) in the subjects of Community Medicine, and Forensic Medicine including Toxicology

• Third Professional Part II / National Exit Test (NExT) as per NExT regulations- (Final Professional) examination shall be at the end of 17th/18th month of that training, in the subjects of General Medicine, General Surgery, Ophthalmology, Otorhinolaryngology, Obstetrics & Gynecology, and Pediatrics, and allied subjects as per NExT REGULATIONS.

Note:

- At least one question in each paper of each PHASE shall test the knowledge, and competencies acquired during the professional development programme (AETCOM module).
- Skills competencies acquired during the Professional Development Programme (AETCOM module) shall be tested during clinical, practical and viva.

Criteria for passing in a subject: As per the F.No. U/14021/8/2023-UGMEB, dt 1st September, 2023 & clarification provided by NMC vide N-U015 (29)/15/2024-UGMEB/014139, dated03/04/2024. candidates have to score 50% aggregate of theory & practical and minimum 40% in each separately in Theory and in practical in order to be declared as passed in every subject. No grace marks shall be given. It is also added that these shall be applicable to every examination conducted after the publication of these guidelines, irrespective to batch.

In subjects that have two papers, the learner must secure minimum 40% marks in aggregate (both papers together) to pass in the said subject.

• Internal assessment marks will reflect as a separate head of passing at the university examination.

iii. Appointment of Examiners

• Person appointed as an examiner in the particular subject must have at least four years of total teaching experience as Assistant Professor after obtaining postgraduate degree following MBBS, in the subject in a college affiliated to a recognized medical college (by UGMEB of NMC).

- For Practical /Clinical examinations, there shall be at least four examiners for every learner, out of whom not less than 50% must be external examiners. Of the four examiners, the senior-most internal examiner shall act as the Chairman and coordinator of the whole examination programme so that uniformity in the matter of assessment of candidates is maintained.
- A University having more than one college shall have separate sets of examiners for each college, with internal examiners from the concerned college. External examiner may be from outside the college/university/ state/ union territory.
- There shall be a Chairman of the Board of paper-setters who shall be an internal examiner and shall moderate the questions.
- All eligible examiners with requisite qualifications and experience can be appointed internal examiners by rotation in their subjects.
- All theory paper assessment should be done as central assessment program (CAP) of concerned university.
- Internal examiners shall be appointed from the same institution for unitary examination in the same institution. For pooled examinations atone centre, the approved internal examiners from same university may be appointed.
- The Examiners for General Surgery and allied subjects as well as for General Medicine and allied subjects, shall be from General Surgery and General Medicine respectively.
- There shall be no grace marks to be considered for passing in an examination.

III Re-admission after discontinuation of study:

Every student shall attend her classes (theory, practical and clinical) on all working days unless the leave of absence is sanctioned by the principal/dean. If a student absents continuously for a period of 91 days or more, before one year after discontinuation and seeks permission to attend the course, her application shall be addressed to the dean of the college and shall be forwarded to the registrar while permitting the student to rejoin. The vice-chancellor may grant leave of absence applying such conditions as deemed necessary. Candidates who are absent for continuous period of one year or more without permission shall be deemed to have forfeited the admission and her studentship shall stand cancelled without any further notice.

IV Migration / Transfer of candidates:

To the extent permissible as per the prevailing regulations of the NMC on migration of students from one medical college to another medical college within or outside the state.

V Submission of Laboratory/ Clinical Record.

At the time of Practical Examination each candidate shall submit to the Examiners her laboratory record duly certified by the Head of the Department as a bonafide record of the work done by the candidate.

VI Guidelines for Log Book:

1. The log book is a record of the academic / non-academic activities of the student.

2. Each medical student is responsible for maintaining their logbook.

3. Entries in the log book will be in accordance with activities done in the pre-clinical departments.

4. Some sections of the logbook are subject specific and have to be scrutinized by the head of the concerned department

5. It is the responsibility of the student to enter their activity in respective pages and get them duly signed by the supervising faculty.

6. The log book shall be kept as record work of the candidate for that department specialty and be submitted to department as a Bonafide record of the candidate before appearing for the university examination.

VII Malpractice:

Punishment for use of unfair means (malpractice) in university examinations:

The regulations of malpractice for MBBS course will as per the guidelines of SVIMS University approved vide resolution no. 17 of 30th Academic Senate meeting held on 30/04/2012.

VIII Declaration of Class:

- A candidate having appeared in all the subjects in the same examination and passed that examination in the first attempt and secures 75% of marks or more of grand total marks (university examination) prescribed will be declared to have passed the examination with distinction.
- A candidate having appeared in all the subjects in the same examination and passed that examination in the first attempt and secures 65% of marks or more but less than 75% of grand total marks (university examination) prescribed will be declared to have passed the examination in First Class.
- A candidate having appeared in all the subjects in the same examination and passed that examination in the first attempt and secures 50% of marks or more but less than 65% of grand total marks (university examination) prescribed will be declared to have passed the examination in Pass Class.
- A candidate passing a university examination in more than one attempt shall be placed in Pass class irrespective of the percentage of marks secured by her in the examination.

Note: Please note fraction of marks will not be rounded off for clauses (a), (b) and (c)

IX Award of Degree:

The university on satisfactory completion of the compulsory internship shall award the degree.

X.ACADEMIC CALENDAR PROPOSED BY NMC

Table1: Time distribution of MBBS Programme & Examination Schedule

Proposed AcademiCalenderfor CBME 2023-24 Batch 2023

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2023						-			1	2	3	4
2024	5	6	7	8	9	10	11	12-ist Prof, exam, result	13-2 nd MBBS	14	15	16
2025	17	18	19	20	21	22	23	24- 2 nd Prof exam, result	25- Final 1st	26	27	28
2026	29	30	31	32	33	34	35	36- Final 1 st exam, result	37- Final 2 nd	38	39	40
2027	41	42	43	44	45	46	47	48	49	50	51	52
2028	53	54 NEXT-1	1- CRMI	2	3	4	5-2 nd propose d NEXT	6	7	8	9	10
2029	11	12-NEXT- Step 2										

Legends:

AETCOM: Attitude, Ethics and Communication skills

FAP: Family Adoption Programme (village outreach)

SDL: Self Directed Learning

SGL: Small Group Learning (tutorials/ Seminars/ Integrated Learning)

PCT (mentioned in Assessments): Part Completion Test

Phase &year of MBBS training	Subjects & Teaching Elements	Duration (months)	University Examination
First Professional MBBS	 i. Foundation course -1week, remaining spread over 6 months at the discretion of college ii. Anatomy, Physiology & Biochemistry, Introduction to Community Medicine, including Family adoption programme (FAP) through village outreach iii. Early Clinical Exposure iv. Attitude,Ethics,andcommunicationModule(AETCOM)includingHumanities 	12 months	1st professional
Second Professional MBBS	i. Pathology, Microbiology, Pharmacologyii. Introduction to clinical subjectsiii. Clinical postings, Family visits for FAPiv. AETCOM	12 months	2nd professional
Third Professional part 1, MBBS, including Electives 1 month	 i. Community Medicine, Forensic Medicine and Toxicology, Medicine & allied, Surgery & allied, Pediatrics, Obstetrics & Gynecology ii. Family visits for FAP iii. Clinical postings iv. AETCOM v. Electives-1month,2blocks,15dayseach 	12 months	Final professional -Part1
Third Professional part 2, MBBS	 i. General Medicine, Dermatology, Psychiatry, Respiratory medicine, Pediatrics, General Surgery, Orthopedics, Oto-rhinolaryngology, Ophthalmology, Radiodiagnosis, Anesthesiology, Obstetrics &Gynecology (ii)Clinical postings (iii)AETCOM 	18 months	Final Professional- Part II

Table 2: Distribution of subjects in each Professional Phase

Table 3: Foundation Course

(one week + spread over 6 months at the discretion of college)

Subjects/Contents	Teaching hours
Orientation	30
Skills Module	34
Field visit to Community Health Center	08
Introduction to Professional Development & AETCOM module	40
Sports, Yoga and extra-curricular activities	16
Enhancement of language/computer skills	32
Total	160

Subject	Lectures	SGL	SDL	Total
Foundation Course				39
Anatomy	210	400	10	620
Physiology	130	300	10	440
Biochemistry*	78	144	IO	232
Early Clinical Exposure**	27	-	0	27
Community Medicine	20	20		40
FAP			27	27
(AETCOM)***	-	26	-	26
Sports and extra-curricular activities	-	-	-	10
Formative Assessment and Term examinations	-	-	-	60
Total	464	918	30	1521#

Table .4 Distribution of Subject Wise Teaching Hours for 1st MBBS

- * Including Molecular Biology
- ** Early Clinical exposure hours to be divided equally in all three subjects.
- *** AETCOM module shall be a longitudinal programme.
- # Includes hours for Foundation course also

Subjects	Lectures	SGL	Clinical Postings*	SDL	Total
Pathology	80	165	-	10	255
Pharmacology	80	165	-	10	255
Microbiology	70	135	-	10	215
Community Medicine	15	0	0	10	25
FAP	0	0	30		30
Forensic Medicine and Toxicology	12	22	-	08	42
Clinical Subjects	59		540	-	599
AETCOM	-	29	-	8	37
Sports, Yoga and extra-curricular activities	-	-	-	20	35
Pandemic module				28	28
Final total	316	516	585	104	1521

Table .5 Distribution of Subject Wise Teaching Hours for 2nd MBBS

Pl. note: Clinical postings shall before 3 hours per day, Monday to Friday.

There will be15hours per week for all clinical postings.

Subject	Lectures	SGL	SDL	Total
Elections	0	1 Г С	0	1 5 6
Electives	0	156	0	156
Gen. Med.	30	50	10	90
Gen Surgery	30	50	10	90
Obs.&Gyn	30	50	10	90
Pediatrics	25	30	10	65
Orthopedics	15	20	10	45
For. Med. & Tax.	40	70	20	130
Community Med	55	70	20	145
FAP(Visits +log book submission)	-	21	10	31
Otorhinolaryngology(ENT)	15	20	10	45
Ophthalmology	15	20	10	45
Clinical posting			540	540
AETCOM	0	19	12	31
Pandemic module	18	0	0	18
Total	273	546	672	1521

Table 6-Distribution of Subject Wise Teaching Hours for 3rd MBBS part 1

Subjects	Lectures	SGL	SDL	Total
General Medicine	95	155	55	260
General Surgery	80	140	40	260
Obstetrics and Gynecology	80	140	40	260
Pediatrics	30	60	30	120
Orthopedics	25	35	25	85
AETCOM	30	0	22	52
Dermatology	15	10	15	40
Psychiatry	15	15	15	45
Otorhinolaryngology (ENT)	15	25	15	55
Ophthalmology	15	25	15	55
Radiodiagnosis	8	15	15	38
Anesthesiology	8	15	15	38
Pandemic module	28	-	-	28
TOTAL	444	610	302	1356

Table 7: Distribution of Subject wise Teaching Hours for 3rd MBBS part-II

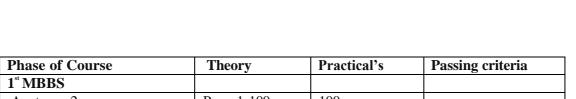
Extra hours may be used for preparation of NExT or SDL.

Table no, 8; Clinical Posting Schedules in weeks

	Perio	od of training	g in weeks	Total
Subjects	II MBBS	III MBBS Part I	III MBBS Part II	Weeks
Electives	0	4	0	4
General Medicine	9	4	14	27
General Surgery	7	4	10	21
Obstetrics & Gynecology	7	4	10	21
Pediatrics	4	4	5	13
Community Medicine	4	4	0	8
Orthopedics	2	2	4	8
Otorhinolaryngology	0	3	4	7
Ophthalmology	0	3	4	7
Psychiatry	0	2	4	6
Radio-diagnosis	0	0	2	2
Dermatology	2	2	2	6
Dentistry	1	0	0	1
Anesthesiology	0	0	J	3
Total	36	36	62	134

Year of Curriculum	Focus of Learner-Doctor programme
Year 1	Introduction to hospital environment, early clinical exposure, understanding perspectives of illness, family adoption program
Year 2	History taking, physical examination, assessment of change in clinical status, communication and patient education, family adoption program
Year 3	All of the above and choice of investigations, basic procedures and continuity of care
Year 4	All of the above(except Family adoption programme) and decision making, management and outcomes

Table 9 : Learner-Doctor programme(Clinical Clerkship)



1^{st} MBBS			
Anatomy-2 papers	Paper1-100	100	
	Paper2-100		
Physiology-2 papers	Paper1-100	100	Mandatory to get
	Paper2-100		40% marks
Biochemistry-2 papers	Paper1-100	100	separately in theory
	Paper2-100		and in practicals;
2 nd MBBS			and totally 50% for
Pathology-2 papers	Paper1-100	100	theory plus
	Paper2-100		practicals.
Microbiology-2 papers	Paper1-100	100	
	Paper2-100		
Pharmacology-2papers	Paper1-100	· 100	
	Paper2-100		
Final MBBS part 1			
Forensic Med.Tox1paper	Paper1- 100	50	
Community Med-2 papers	Paper1-100	100	
	Paper2-100		

For NEXT, as per NEXT regulations.

Phase wise marks distribution of internal assessment – Theory & Practical

THEORY

						IIILONI							
Name	of the Institute:												
			DE	PARTMENT (OF Anatom	y/ Physiology	/ Biocher	nistry					
Fac	ulty: MBBS	Year/F	Phase-I						Da	ate: dd/mm/yy	ууу		
		Format	ive Assessm	nent Theory		Continuc	ous Intern	al Assessm	nent Theory				
Roll. No	Name of	Name of	Name of	1st PCT Theory	2nd PCT Theory	Prelims Theory (Paper I &	Home Assign	Continuou s Class Test	Semin ar	Museu m study	Library Assignme nts	Attendanc e Theory	Total
	Student	ent		II)	ment	(LMS)	Self-Directed Learning						
		100	100	200	15	30	15	15	15	10	500		
Profe	essor & Head												
De	partment of												
Name	of the Institute												

						PRACTICAL						
Name	e of the l	Institute:										
				DEPART	MENT OF	Anatomy/ Physiol	ogy/ Biochen	nistry				
	culty BBS	Yea	r/Phase-I								Date:dd/mn	n/yyyy
	Formative Assessment				(Continuous In	ternal Ass	essment	(Practical)			
						L	og Book (15	0)				Tota
S. No	Roll No.	Name of Student	1st PCT Practical/First Ward Leaving Examination	2nd PCT Practical/First Ward Leaving Examination	Prelims Practical	Certifiable skill based competencies (Through OSPE/OSCE/Sports/ Exercise/Other)	AETCOM Competencies	SVL Lab Activity	Resea rch	Journal (Record book/Portfol io)	Attendance (Practical)	
			100	100	100	60	30	40	20	40	10	500
Profe	ssor & I	Head										
Depa	rtment o	of										
Name	e of the l	Institute										

					THEORY						
lame of	the Institute:										
			DEPART	MENT OF Patho	ology/ Pharma	cology / Micro	obiology				
Fa	culty: MBBS	Year/P	hase-II						Date: d	d/mm/yyy	у I
		Format	ive Assessm	ent Theory		Continuou	s Internal A	Assessment	Theory		
Roll.	Name of Student	1st PCT Theory	2nd PCT Theory	Prelims Theory	Home Assignment	Continuous Class Test (LMS)	Seminar	Museum study	Library Assignme nts	Attenda nce	Tota
No	Name of Student	-		(Paper I & II)	11)	(LIVIS)	Self-	Directed Le	arning	Theory	
		100	100	200	15	30	15	15	15	10	500
rofessor	& Head		<u> </u>	1	1	<u>I</u>					<u> </u>
Departme	ent of										
lame of	the Institute										

						PRACTICAL						
Name	e of the	Institute:										
				DEPARTM	ENT OF Pa	thology/ Pharmaco	ology/ Microb	oiology				
	culty BBS	Year	:/Phase-II								Date dd/mm/	
Formative Assessment						C	Continuous In	ternal Asse	essment (Pra	actical)		
							Log Book (1	50)				Total
S. No	Roll No.	Name of Student	1st PCT Practical/First Ward Leaving Examination	2nd PCT Practical/First Ward Leaving Examination	Prelims Practical	Certifiable skill based competencies (Through OSPE/OSCE/Sports/ Exercise/Other)	AETCOM Competencies	SVL Lab Activity	Research	Journal (Record book/Portf olio)	Attendan ce (Practical)	
			100	100	100	60	30	40	20	40	10	500
Depa	ssor & l rtment c e of the											

Nomo	of the Institute:				THEOR	Y							Cumulative percent of Theory Practical
Ivanie	of the institute.			DEPART	MENT OF Cor	nmunity Medici	ine						Tractical
Fa	culty: final MBBS	Vear/P	hase-3 Part-I			initiality incure	inte		Date	e: dd/mm/yyyy			
1 4	cuty. Inal WDD5		ative Assessment	Theory		Continu	uous Interna	1 Assessmen		. dd/mm/yyyy			
Roll.	Name of Student	1st PCT	2nd PCT Theory	Prelims Theory (Paper I	Home Assignment	Continuous Class Test	Seminar	Museum study	Library Assignments	Attendance Theory	Total	Percentage theory (minimum cut of	Theory + Practical = 500+500 =1000 (minimum cut off 50%) Note: Minimum 40% separately for theory practical and 50% cumulative
No	Traine of Student	Theory		& II)	C	(LMS)	Selj	f-Directed L	earning			40%)	in IA for eligibility in summative examination.
		100	100	200	15	15	30	15	15	10	500	%	
Name	of the Institute:				THEOR	Y							Cumulative percent of Theory Practical
Name	of the Institute:			DEPAR			e						Cumulative percent of Theory Practical
	of the Institute: culty: final MBBS	Year/P	hase-3 Part-I	DEPAR		Y prensic Medicin	e		Date	: dd/mm/yyyy			
			hase-3 Part-I ative Assessment			prensic Medicin	e Lous Interna	1 Assessmer		e: dd/mm/yyyy			

				DEPAR	TMENT OF Fo	rensic Medicin	e						
Fac	culty: final MBBS	Year/F	hase-3 Part-I			Date: dd/mm/yyyy							
		Form	ative Assessment	Theory		Continu	uous Interna	l Assessmer	t Theory				
Roll.		1st PCT	2nd PCT	Prelims Theory	Home	Continuous Class Test	Seminar	Museum study	Library Assignments	Attendance	Total	Percentage theory	Theory + Practical = 375+500 =875 (minimum cut off 50%)
No	Non Name of Student Theory (Paper		(Paper I & II)	Assignment (LMS)		Self-Directed Learning			Theory		(minimum cut of 40%)		
		100	100	100	10	10	25	10	10	10	375	%	
Depar	Professor & Head Department of Name of the Institute												

						PRACTICAL						
Name	e of the Insti	tute:										
E	-lter Einel	r		1	DI	EPARTMENT OF Community Medicin	ne					
	ılty Final ABBS	Year	Phase-3 part-I							Date:dd/mm	n/vvvv	
				tive Assessment		Con	tinuous Internal Asse	essment (Practical)				
			1st PCT	2nd PCT	_	Log Boo	k (150)		T		Total	Percentage
S. No	Roll No.	Name of Student	Practical/First Ward Leaving Examination	Practical/First Ward Leaving Examination	Prelims Practical	Certifiable skill based competencies (Through OSPE/OSCE/Sports/ Exercise/Other)	Family adoption programme competencies in comm. medicine	AETCOM Competencies	Journal (Record book/Portfoli o)	Attendance (Practical)		Practical (Minimum cut o 40%)
			100 100 100 60					30	40	10	500	%
												I
						DD ACTIC AI						
Name	of the Insti	tute:				PRACTICAL						
Name	e of the Insti	tute:			I	<i>PRACTICAL</i> DEPARTMENT OF Forensic Medicine						
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Department of General Medicine

The broad goal of undergraduate training in General Medicine is to impart basic knowledge, skill and behavioral attitudes to the students to function effectively as the first contact primary care physician.

Respiratory medicine (TB & RD)

- To impart comprehensive knowledge, skills, attitude and communication to the undergraduate medical students in Respiratory medicine.
- To identify respiratory health issues and to manage or refer at appropriate time.
- To create respiratory health awareness and to reduce the stigma associated with chronic respiratory illness
- To nurture students and mould them as an ideal Indian Medical Graduate who should be a good clinician, communicator, lifelong learner, professional, leader and member of health care team,

Psychiatry

- To impart comprehensive knowledge, skills, attitude and communication to the undergraduate medical students in psychiatry.
- To identify mental health issues and to manage or refer at appropriate time.
- To create mental health awareness and to reduce the stigma associated with mental illness
- To nurture students and mould them as an ideal Indian Medical Graduate who should be a good clinician, communicator, lifelong learner, professional, leader and member of health care team,

Dermatology, Venereology and Leprosy

The broad goal of the teaching of Undergraduate students in Dermatology, Venereology and Leprosy is to produce graduates capable of independently diagnosing and clinically evaluating basic skin lesions and further investigating them

The student should be able to develop the clinical skills, professional attitudes and knowledge base for the practice of Dermatology, Venereology & Leprosy, as a part of General Medicine through exposure to general and auto immune skin disorders.

The student must appreciate the medical management and basic foundations underlying the care of patients with dermatological complaints

COMPETENCIES

GENERAL MEDICINE

- The student must demonstrate ability to do the following in relation to common Medical problems of the adult in the community: Demonstrate understanding of the patho-physiologic basis, epidemiological profile, signs and symptoms of disease and their investigation and management,
- Competently interview and examine an adult patient and make a clinical diagnosis,
- Appropriately order and interpret laboratory tests,
- Initiate appropriate cost-effective treatment based on an understanding of the rational drug Prescriptions,

medical interventions required and preventive measures,

- Follow up of patients with medical problems and refer whenever required,
- Communicate effectively, educate and counsel the patient and family,
- Manage common medical emergencies and refer when required,
- Independently perform common medical procedures safely and understand patient safety issues.

Respiratory Medicine

The student must demonstrate:

- Knowledge of common chest diseases, their clinical manifestations, diagnosis and management,
- Ability to recognize, diagnose and manage pulmonary tuberculosis as contemplated in National
- Tuberculosis Control programme,
- Ability to manage common respiratory emergencies in primary care setting and refer appropriately.

Psychiatry

The undergraduate must demonstrate: (from MCI regulations amended up to 2019)

- History taking in patients with common mental disorders
- · Mental status examination in patients with common mental disorders
- Approach to diagnosis in patients with common mental disorders
- Treatment or referral plan in patients with common mental disorders
- Integration: The teaching should be aligned and integrated horizontally and vertically in understanding the mental disorders with physiology, pharmacology, forensic medicine, community medicine, general medicine, obstetrics and pediatrics.

Dermatology, Venereology & Leprosy

The undergraduate student must demonstrate:

- Understanding of the principles of diagnosis of diseases of the skin, hair, nail and mucosa,
- Ability to recognize, diagnose, order appropriate investigations and treat common diseases of the
- skin including leprosy in the primary care setting and refer as appropriate,
- A syndrome approach to the recognition, diagnosis, prevention, counseling, testing and
- ManagementofcommonsexuallytransmitteddiseasesincludingHIVbasedonnationalhealth priorities,
- Ability to recognize and treat emergencies including drug reactions and refer as appropriate.

OBJECTIVES

General Medicine

Competencies

The student must demonstrate ability to do the following in relation to common medical problems of the adult in the

community:

- Demonstrate understanding of the pathophysiologic basis, epidemiological profile, signs and symptoms of disease and their investigation and management.
- Competently interview and examine an adult patient and make a clinical diagnosis.
- Appropriately order and interpret laboratory tests.
- Initiate appropriate cost-effective treatment based on an understanding of the rational drug prescriptions, medical interventions required and preventive measures.
- Follow up of patients with medical problems and refer whenever required.
- Communicate effectively, educate and counsel the patient and family.
- Manage common medical emergencies and refer when required.
- Independently perform common medical procedures safely and understand patient safety issues.

Broad subject specific objectives:

a) Knowledge:

At the end of the course, the student shall be able to:

- Diagnose common clinical disorders with special reference to infectious diseases, nutritional disorders, tropical and environmental diseases.
- Outline various modes of management including drug therapeutics especially dosage, side effects, toxicity, interactions, indications and contra-indications.
- Propose diagnostic and investigative procedures and ability to interpret them.
- Provide first level management of acute emergencies promptly and efficiently and decide the timing and level of referral, if required.
- Recognize geriatric disorders and their management.

b) Skills

At the end of the course, the student shall be able to

- Develop clinical skills (history taking. clinical examination and other instruments of examination) to diagnose various common medical disorders and emergencies.
- Refer a patient to secondary and/or tertiary level of health care after having instituted primary care.
- Perform simple routine investigations like hemogram, stool, urine, sputum and biological fluid examinations.
- Assist the common bedside investigative procedure like pleural tap. Lumbar puncture, bone marrow aspiration/biopsy and liver biopsy.

c) Integration:

The teaching should be aligned and integrated horizontally and vertically in order to provide sound biologic basis and incorporating the principles of general medicine into a holistic and comprehensive approach to the care of the patient. With other relevant academic inputs which provide scientific basis of clinical medicine e.g. anatomy, physiology, biochemistry, microbiology, pathology and pharmacology.

Respiratory Medicine (TB & RD)

At the end of the undergraduate medical student will be able to:

Knowledge

- To understand the basics of clinical assessment, diagnosis and treatment of Tuberculosis including MDR, XDR TB patients.
- To know about the prevalence of common respiratory diseases
- To know the theoretical basis of diagnosis and management of obstructive airway diseases
- To know the theoretical basis of respiratory manifestations of General medical conditions
- To know the theoretical basis of Pharmacology of drugs used in respiratory medicine

Skills

- To elicit detailed history from patients and informants
- To perform Respiratory examination in patients with Respiratory disorders

Attitude and communication

- To establish rapport with patients and their family members
- To establish therapeutic alliance with patients
- To exhibit competencies in verbal, nonverbal and written communication
- Attitude to be a lifelong leaner.

Integration

- At the end of the integrated teaching the student shall acquire an integrated knowledge of Respiratory disorders and its management
- To search the medical literature, including electronic databases, for enhancing the knowledge and skills in Respiratory medicine

Psychiatry

Knowledge:

At the end of the undergraduate medical student will be able to:

- To know about the classification of psychiatric disorders
- To understand the symptoms of common mental disorders in psychiatry
- To know the theoretical basis of differentiating psychiatric disorders from organicity
- To know the theoretical basis of psychiatric manifestations of General medical conditions
- To know the theoretical basis of substance use disorders
- To know about psychological, pharmacological and somatic interventions.

Skills

- To elicit detailed psychiatric history of common mental disorders from patients and informants
- To perform mental status examination in patients with common mental disorders

Attitude and communication

- To establish rapport with patients and their family members
- To exhibit competencies in verbal, non verbal and written communication

• Attitude to be a lifelong leaner.

Integration

- At the end of the integrated teaching the student shall acquire an integrated knowledge of mental disorders and its management
- To search the medical literature, including electronic databases, for enhancing the knowledge and skills in Psychiatry

Dermatology, Venereology & leprosy

Skills

At the end of the course, the student should be able to:

- Explain the basic skin lesions clinically and Bed side investigations for the same.
- Clinical Evaluations and bedside Demonstration for Laboratory diagnosis-
- KOH MOUNT for Fungus
- o Gram stain
- Scraping and mounting for infestations
- Clinical evaluations of lesions and nerve examinations for Hansens Disease with SSS (slit skin smear) and skin biopsy.
- Describe the various cutaneous findings and clinical aspects of conditions like systemic lupus erythematosus, Scleroderma, Dermatomyositis etc.

Attitude and Communication

- Communication with empathy to patients & patient's attenders.
- To counsel & obtain informed consent from patient & patients attenders.

Integration

The teaching should be aligned and integrated horizontally and vertically in order to emphasize the basis of diseases of the skin, sexually transmitted diseases and leprosy and to provide an understanding that skin diseases may be a manifestation of systemic disease.

Gene	ral Medicine
Number	Unit 1 - Heart Failure
	Describe and discuss the epidemiology, pathogenesis clinical evolution and course of common causes of heart disease including: rheumatic/ valvular, ischemic, hypertrophic inflammatory
IM1.2	Describe and discuss the genetic basis of some forms of heart failure
	Describe and discuss the aetiology microbiology pathogenies and clinical evolution of rheumatic fever, criteria, degree of rheumatic activity and rheumatic valvular heart disease and its complications including infective endocarditis
IM1.4	Stage heart failure
IM1.5	Describe discuss and differentiate the processes involved in R Vs L heart failure, systolic vs diastolic failure
	Describe and discuss the compensatory mechanisms involved in heart failure including cardiac remodelling and neurohormonal adaptations

Theory Syllabus: Topic and the competencies

IM1.7	Enumerate, describe and discuss the factors that exacerbate heart failure including ischemia arrhythmias, anemia, thyrotoxicosis, dietary factors drugs etc.
IM1.8	Describe and discuss the pathogenesis and development of common arrythmias involved in heart failure particularly atrial fibrillation
IM1.9	Describe and discuss the clinical presentation and features, diagnosis, recognition and management of acute rheumatic fever
	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis
	Order and interpret diagnostic testing based on the clinical diagnosis including 12 lead ECG, Chest radiograph, blood cultures
	Enumerate the indications for and describe the findings of heart failure with the following conditions including: 2D echocardiography, brain natriuretic peptide, exercise testing, nuclear medicine testing and coronary angiogram
	Determine the severity of valvular heart disease based on the clinical and laboratory and imaging features and determine the level of intervention required including surgery
	Describe and discuss and identify the clinical features of acute and subacute endocarditis, echocardiographic findings, blood culture and sensitivity and therapy
	Describe and discuss the pharmacology of drugs including indications, contraindications in the management of heart failure including diuretics, ACE inhibitors, Beta blockers, aldosterone antagonists and cardiac glycosides
IM1.25	Enumerate the indications for valvuloplasty, valvotomy, coronary revascularization and cardiac transplantation
IM1.27	Describe and discuss the role of penicillin prophylaxis in the prevention of rheumatic heart disease
	Enumerate the causes of adult presentations of congenital heart disease and describe the distinguishing features between cyanotic and acyanotic heart disease
IM1.29	Elicit document and present an appropriate history, demonstrate correctly general examination, relevant clinical findings and formulate document and present a management plan for an adult patient presenting with a common form of congenital heart disease
Numbor	Unit 2 Agute Mycoordial Inforction/IHD
	Unit 2 - Acute Myocardial Infarction/ IHD
IM2.1	Discuss and describe the epidemiology, antecedents and risk factors for atherosclerosis and ischemic heart disease
IM2.2	Discuss the aetiology of risk factors both modifiable and non-modifiable of atherosclerosis and IHD
	Discuss and describe the linid cycle and the role of dyclinidemic in the nother energie of other endergoing

11112.2	Discuss the actiology of tisk factors both modifiable and hor-modifiable of atteroscierosis and ind
IM2.3	Discuss and describe the lipid cycle and the role of dyslipidemia in the pathogenesis of atherosclerosis
IM2.4	Discuss and describe the pathogenesis natural history, evolution and complications of atherosclerosis and IHD
IM2.5	Define the various acute coronary syndromes and describe their evolution, natural history and outcomes
IM2.13	Discuss and enumerate the indications for and findings on echocardiogram, stress testing and coronary angiogram
IM2.14	Discuss and describe the indications for admission to a coronary care unit and supportive therapy for a patient with acute coronary syndrome
IM2.15	Discuss and describe the medications used in patients with an acute coronary syndrome based on the clinical presentation
IM2.16	Discuss and describe the indications for acute thrombolysis, PTCA and CABG
IM2.17	Discuss and describe the indications and methods of cardiac rehabilitation
IM2 18	Discuss and describe the indications, formulations, doses, side effects and monitoring for drugs used in the

IM2.18	Discuss and describe the indications, formulations, doses, side effects and monitoring for drugs used in the
	management of dyslipidemia
IM2.19	Discuss and describe the pathogenesis, recognition and management of complications of acute coronary
	syndromes including arrhythmias, shock, LV dysfunction, papillary muscle rupture and pericarditis
IM2.20	Discuss and describe the assessment and relief of pain in acute coronary syndromes

IM2.23 Describe and discuss the indications for nitrates, anti-platelet agents, gpIIb IIIa inhibitors, beta blockers, ACE inhibitors etc in the management of coronary syndromes

Number	Unit 3 - Pneumonia
	Define, discuss, describe and distinguish community acquired pneumonia, nosocomial pneumonia and aspiration pneumonia
	Discuss and describe the aetiologies of various kinds of pneumonia and their microbiology depending on the setting and immune status of the host

IM3.3	Discuss and describe the pathogenesis, presentation, natural history and complications of pneumonia
IM3.15	Describe and enumerate the indications for hospitalisation in patients with pneumonia
IM3.16	Describe and enumerate the indications for isolation and barrier nursing in patients with pneumonia
	Describe and discuss the supportive therapy in patients with pneumonia including oxygen use and indications for ventilation

Number Unit 4 - Fever and febrile syndromes IM4.1 Describe and discuss the febrile response and the influence of host immune status, risk factors and comorbidities on the febrile response IM4 2 Describe and discuss the influence of special populations on the febrile response including: the elderly, immune suppression, malignancy and neutropenia, HIV and travel IM4.3 Discuss and describe the common causes, pathophysiology and manifestations of fever in various regions in India including bacterial, parasitic and viral causes (e.g.Dengue, Chikungunya, Typhus) IM4.4 Describe and discuss the pathophysiology and manifestations of inflammatory causes of fever IM4.5 Describe and discuss the pathophysiology and manifestations of malignant causes of fever including hematologic and lymph node malignancies IM4.6 Discuss and describe the pathophysiology and manifestations of malaria IM4.7 Discuss and describe the pathophysiology and manifestations of the sepsis syndrome IM4.8 Discuss and describe the pathophysiology, aetiology and clinical manifestations of fever of unknown origin (FUO) including in a normal host, neutropenic host, nosocomial host and a host with HIV disease IM4.11 Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes Order and interpret diagnostic tests based on the differential diagnosis including: CBC with differential. IM4.12 peripheral smear, urinary analysis with sediment, Chest X ray, blood and urine cultures, sputum gram stain and cultures, sputum AFB and cultures, CSF analysis, pleural and body fluid analysis, stool routine and culture and QBC IM4.16 Enumerate the indications and describe the findings in tests of inflammation and specific rheumatologic tests, serologic testing for pathogens including HIV, bone marrow aspiration and biopsy IM4.18 Enumerate the indications for use of imaging in the diagnosis of febrile syndromes IM4.21 Develop and present an appropriate diagnostic plan based on the clinical presentation, most likely diagnosis in a prioritised and cost effective manner Describe and discuss the pharmacology, indications, adverse reactions, interactions of antimalarial IM4.22 drugs and basis of resistance

Number	Unit 5 - Liver disease
IM5.1	Describe and discuss the physiologic and biochemical basis of hyperbilirubinemia
IM5.2	Describe and discuss the aetiology and pathophysiology of liver injury
IM5.3	Describe and discuss the pathologic changes in various forms of liver disease
IM5.4	Describe and discuss the epidemiology, microbiology, immunology and clinical evolution of infective (viral) hepatitis
IM5.5	Describe and discuss the pathophysiology and clinical evolution of alcoholic liver disease
IM5.6	Describe and discuss the pathophysiology, clinical evolution and complications of cirrhosis and portal hypertension including ascites, spontaneous bacterial peritonitis, hepatorenal syndrome and hepatic encephalopathy
IM5.7	Enumerate and describe the causes and pathophysiology of drug induced liver injury
IM5.8	Describe and discuss the pathophysiology, clinical evolution and complications cholelithiasis and cholecystitis
IM5.11	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology for the presenting symptom
IM5.13	Enumerate the indications for ultrasound and other imaging studies including MRCP and ERCP and describe the findings in liver disease
IM5.16	Describe and discuss the management of hepatitis, cirrhosis, portal hypertension, ascites spontaneous, bacterial peritonitis and hepatic encephalopathy

IM5.18	Enumerate the indications for hepatic transplantation
Number	Unit 6 - HIV
IM6.1	Describe and discuss the symptoms and signs of acute HIV seroconversion
IM6.2	Define and classify HIV AIDS based on the CDC criteria
IM6.3	Describe and discuss the relationship between CDC count and the risk of opportunistic infections
IM6.4	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related opportunistic infections
IM6.5	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related malignancies
IM6.6	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related skin and oral lesions
IM6.9	Choose and interpret appropriate diagnostic tests to diagnose and classify the severity of HIV-AIDS including specific tests of HIV, CDC
IM6.11	Enumerate the indications and describe the findings for CT of the chest and brain and MRI
IM6.12	Enumerate the indications for and interpret the results of: pulse oximetry, ABG, Chest Radiograph
IM6.13	Describe and enumerate the indications and side effects of drugs for bacterial, viral and other types of diarrhea
IM6.16	Discuss and describe the principles of HAART, the classes of antiretrovirals used, adverse reactions and interactions
IM6.17	Discuss and describe the principles and regimens used in post exposure prophylaxis
Number	Unit 7 - Rheumatologic problems

Number	Unit 7 - Rheumatologic problems
IM7.1	Describe the pathophysiology of autoimmune disease
IM7.2	Describe the genetic basis of autoimmune disease
IM7.3	Classify cause of joint pain based on the pathophysiology
IM7.4	Develop a systematic clinical approach to joint pain based on the pathophysiology
IM7.5	Describe and discriminate acute, subacute and chronic causes of joint pain
IM7.6	Discriminate, describe and discuss arthralgia from arthritis and mechanical from inflammatory causes of joint pain
IM7.7	Discriminate, describe and discuss distinguishing articular from periarticular complaints
IM7.8	Determine the potential causes of join pain based on the presenting features of joint involvement
IM7.9	Describe the common signs and symptoms of articular and periarticular diseases
IM7.10	Describe the systemic manifestations of rheumatologic disease
IM7.14	Describe the appropriate diagnostic work up based on the presumed aetiology
IM7.15	Enumerate the indications for and interpret the results of : CBC, anti- CCP, RA, ANA, DNA and other tests of autoimmunity
IM7.16	Enumerate the indications for arthrocentesis
IM7.17	Enumerate the indications and interpret plain radiographs of joints
IM7.19	Develop an appropriate treatment plan for patients with rheumatologic diseases
IM7.23	Describe the basis for biologic and disease modifying therapy in rheumatologic diseases
IM7.27	Determine the need for specialist consultation

Number	UNIT 8 - Hypertension
IM8.1	Describe and discuss the epidemiology, aetiology and the prevalence of primary and secondary hypertension
IM8.2	Describe and discuss the pathophysiology of hypertension
IM8.3	Describe and discuss the genetic basis of hypertension
IM8.4	Define and classify hypertension
IM8.5	Describe and discuss the differences between primary and secondary hypertension
IM8.6	Define, describe and discuss and recognise hypertensive urgency and emergency

IM8.7	Describe and discuss the clinical manifestations of the various aetiologies of secondary causes of hypertension
IM8.8	Describe, discuss and identify target organ damage due to hypertension
IM8.9	Elicit document and present a medical history that includes: duration and levels, symptoms, comorbidities, lifestyle, risk factors, family history, psychosocial and environmental factors, dietary assessment, previous and concomitant therapy
IM8.12	Describe the appropriate diagnostic work up based on the presumed aetiology
IM8.13	Enumerate the indications for and interpret the results of : CBC, Urine routine, BUN, Cr, Electrolytes, Uric acid, ECG
IM8.14	Develop an appropriate treatment plan for essential hypertension
IM8.20	Determine the need for specialist consultation

Number	Unit 9 - Anemia
IM9.1	Define, describe and classify anemia based on red blood cell size and reticulocyte count
IM9.2	Describe and discuss the morphological characteristics, aetiology and prevalence of each of the causes of anemia
IM9.7	Describe and discuss the meaning and utility of various components of the hemogram
IM9.8	Describe and discuss the various tests for iron deficiency
IM9.11	Describe the indications and interpret the results of a bone marrow aspirations and biopsy
IM9.12	Describe, develop a diagnostic plan to determine the aetiology of anemia
IM9.14	Describe the national programs for anemia prevention
IM9.17	Describe the indications for blood transfusion and the appropriate use of blood components
IM9.18	Describe the precautions required necessary when performing a blood transfusion
IM9.21	Determine the need for specialist consultation

Unit 10 - Acute Kidney Injury and Chronic renal failure
Define, describe and differentiate between acute and chronic renal failure
Classify, describe and differentiate the pathophysiologic causes of acute renal failure
Describe the pathophysiology and causes of pre renal ARF, renal and post renal ARF
Describe the evolution, natural history and treatment of ARF
Describe and discuss the aetiology of CRF
Stage Chronic Kidney Disease
Describe and discuss the pathophysiology and clinical findings of uraemia
Classify, describe and discuss the significance of proteinuria in CKD
Describe and discuss the pathophysiology of anemia and hyperparathyroidism in CKD
Describe and discuss the association between CKD glycemia and hypertension
Describe and discuss the relationship between CAD risk factors and CKD and in dialysis
Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
Describe the appropriate diagnostic work up based on the presumed aetiology
Enumerate the indications for and interpret the results of : renal function tests, calcium, phosphorus, PTH, urine electrolytes, osmolality, Anion gap
Enumerate the indications and describe the findings in renal ultrasound
Counsel patients on a renal diet
Describe and discuss supportive therapy in CKD including diet, anti hypertensives, glycemic therapy, dyslipidemia, anemia, hyperkalemia, hyperphosphatemia and secondary hyperparathyroidism

Number	Unit 11 - Diabetes Mellitus
IM11.1	Define and classify diabetes
IM11.2	Describe and discuss the epidemiology and pathogenesis and risk factors and clinical evolution of type 1
	diabetes

IM11.3	Describe and discuss the epidemiology and pathogenesis and risk factors economic impact and clinical evolution of type 2 diabetes
IM11.4	Describe and discuss the genetic background and the influence of the environment on diabetes
IM11.5	Describe and discuss the pathogenesis and temporal evolution of microvascular and macrovascular complications of diabetes
IM11.6	Describe and discuss the pathogenesis and precipitating factors, recognition and management of diabetic emergencies
IM11.9	Describe and recognise the clinical features of patients who present with a diabetic emergency
IM11.10	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
IM11.14	Recognise the presentation of hypoglycaemia and outline the principles on its therapy
IM11.15	Recognise the presentation of diabetic emergencies and outline the principles of therapy
IM11.16	Discuss and describe the pharmacologic therapies for diabetes their indications, contraindications, adverse reactions and interactions
IM11.17	Outline a therapeutic approach to therapy of T2Diabetes based on presentation, severity and complications in a cost effective manner
IM11.18	Describe and discuss the pharmacology, indications, adverse reactions and interactions of drugs used in the prevention and treatment of target organ damage and complications of Type II Diabetes including neuropathy, nephropathy, retinopathy, hypertension, dyslipidemia and cardiovascular disease
IM11.22	Enumerate the causes of hypoglycaemia and describe the counter hormone response and the initial approach and treatment
IM11.23	Describe the precipitating causes, pathophysiology, recognition, clinical features, diagnosis, stabilisation and management of diabetic ketoacidosis
IM11.24	Describe the precipitating causes, pathophysiology, recognition, clinical features, diagnosis, stabilisation and management of Hyperosmolar non ketotic state

Number	Unit 12 - Thyroid dysfunction
IM12.1	Describe the epidemiology and pathogenesis of hypothyroidism and hyperthyroidism including the influence of iodine deficiency and autoimmunity in the pathogenesis of thyroid disease
IM12.2	Describe and discuss the genetic basis of some forms of thyroid dysfunction
IM12.3	Describe and discuss the physiology of the hypothalamopituitary - thyroid axis, principles of thyroid function testing and alterations in physiologic function
IM12.4	Describe and discuss the principles of radio iodine uptake in the diagnosis of thyroid disorders
IM12.8	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis
IM12.12	Describe and discuss the iodisation programs of the government of India
IM12.13	Describe the pharmacology, indications, adverse reaction, interactions of thyroxine and antithyroid drugs
IM12.15	Describe and discuss the indications of thionamide therapy, radio iodine therapy and surgery in the management of thyrotoxicosis

Number	Unit 13 - Common malignancies
IM13.1	Describe the clinical epidemiology and inherited & modifiable risk factors for common malignancies in India
IM13.2	Describe the genetic basis of selected cancers
IM13.3	Describe the relationship between infection and cancers
IM13.4	Describe the natural history, presentation, course, complications and cause of death for common cancers
IM13.5	Describe the common issues encountered in patients at the end of life and principles of management
IM13.6	Describe and distinguish the difference between curative and palliative care in patients with cancer
IM13.12	Describe the indications and interpret the results of Chest X Ray, mammogram, skin and tissue biopsies and tumor markers used in common cancers
IM13.13	Describe and assess pain and suffering objectively in a patient with cancer
IM13.14	Describe the indications for surgery, radiation and chemotherapy for common malignancies
IM13.15	Describe the need, tests involved, their utility in the prevention of common malignancies

IM13.17	Describe and enumerate the indications, use, side effects of narcotics in pain alleviation in patients with
	cancer
IM13.18	Describe and discuss the ethical and the medico legal issues involved in end of life care
IM13.19	Describe the therapies used in alleviating suffering in patients at the end of life

Number	Unit 14 - Obesity
IM14.1	Define and measure obesity as it relates to the Indian population
IM14.2	Describe and discuss the aetiology of obesity including modifiable and non-modifiable risk factors and secondary causes
IM14.3	Describe and discuss the monogenic forms of obesity
IM14.4	Describe and discuss the impact of environmental factors including eating habits, food, work, environment and physical activity on the incidence of obesity
IM14.5	Describe and discuss the natural history of obesity and its complications
IM14.10	Describe the indications and interpret the results of tests for secondary causes of obesity
IM14.13	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for obesity
IM14.14	Describe and enumerate the indications and side effects of bariatric surgery
IM14.15	Describe and enumerate and educate patients, health care workers and the public on measures to prevent obesity and promote a healthy lifestyle

Number	Unit 15 - GI bleeding
IM15.1	Enumerate, describe and discuss the aetiology of upper and lower GI bleeding
IM15.3	Describe and discuss the physiologic effects of acute blood and volume loss
IM15.10	Enumerate the indications for endoscopy, colonoscopy and other imaging procedures in the investigation of Upper GI bleeding
IM15.12	Enumerate the indications for whole blood, component and platelet transfusion and describe the clinical features and management of a mismatched transfusion
IM15.14	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy of pressors used in the treatment of Upper GI bleed
IM15.15	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy of acid peptic disease including Helicobacter pylori
IM15.16	Enumerate the indications for endoscopic interventions and Surgery

Number	Unit 16 - Diarrheal disorder
IM16.1	Describe and discuss the aetiology of acute and chronic diarrhea including infectious and non infectious causes
IM16.2	Describe and discuss the acute systemic consequences of diarrhea including its impact on fluid balance
IM16.3	Describe and discuss the chronic effects of diarrhea including malabsorption
IM16.11	Enumerate the indications for stool cultures and blood cultures in patients with acute diarrhea
IM16.12	Enumerate and discuss the indications for further investigations including antibodies, colonoscopy, diagnostic imaging and biopsy in the diagnosis of chronic diarrhea
IM16.13	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for parasitic causes of diarrhea
IM16.14	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for bacterial and viral diarrhea
IM16.16	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy including immunotherapy
IM16.17	Describe and enumerate the indications for surgery in inflammatory bowel disease
Number	Unit 17 - Headache
IM17.1	Define and classify headache and describe the presenting features, precipitating factors, aggravating and relieving factors of various kinds of headache
IM17.3	Classify migraine and describe the distinguishing features between classical and non classical forms of migraine

IM17.7	Enumerate the indications and describe the findings in the CSF in patients with meningitis
IM17.10	Enumerate the indications for emergency care admission and immediate supportive care in patients with headache
IM17.11	Describe the indications, pharmacology, dose, side effects of abortive therapy in migraine
IM17.12	Describe the indications, pharmacology, dose, side effects of prophylactic therapy in migraine
IM17.13	Describe the pharmacology, dose, adverse reactions and regimens of drugs used in the treatment of bacterial, tubercular and viral meningitis
Number	Unit 18 - Cerebrovascular accident
IM18.1	Describe the functional and the vascular anatomy of the brain
IM18.2	Classify cerebrovascular accidents and describe the aetiology, predisposing genetic and risk factors pathogenesis of hemorrhagic and non hemorrhagic stroke
IM18.4	Identify the nature of the cerebrovascular accident based on the temporal evolution and resolution of the illness
IM18.8	Describe and distinguish, based on the clinical presentation, the types of bladder dysfunction seen in CNS disease
IM18.11	Describe the initial supportive management of a patient presenting with a cerebrovascular accident (CVA)
IM18.12	Enumerate the indications for and describe acute therapy of non hemorrhagic stroke including the use of thrombolytic agents
IM18.13	Enumerate the indications for and describe the role of anti platelet agents in non hemorrhagic stroke

IM18.14 Describe the initial management of a hemorrhagic stroke

IM18.15 Enumerate the indications for surgery in a hemorrhagic stroke

Number	Unit 19 - Movement disorders
IM19.1	Describe the functional anatomy of the locomotor system of the brain
IM19.2	Classify movement disorders of the brain based on distribution, rhythm, repetition, exacerbating and relieving factors
IM19.8	Discuss and describe the pharmacology, dose, side effects and interactions used in the drug therapy of Parkinson's syndrome
IM19.9	Enumerate the indications for use of surgery and botulinum toxin in the treatment of movement disorders

Number	Unit 20 - Envenomation
	Enumerate the local poisonous snakes
	and describe the distinguishing marks of each
IM20.3	Describe the initial approach to the stabilisation of the patient who presents with snake bite
	Enumerate the indications and describe the pharmacology, dose, adverse reactions, hypersensitivity reactions of anti snake venom
IM20.8	Describe the diagnosis, initial approach stabilisation and therapy of scorpion envenomation
IM20.9	Describe the diagnosis initial approach stabilisation and therapy of bee sting allergy

Number	Unit 21 - Poisoning
IM21.1	Describe the initial approach to the stabilization of the patient who presents with poisoning
IM21.2	Enumerate the common plant poisons seen in your area and describe their toxicology, clinical features, prognosis and specific approach to detoxification
IM21.3	Enumerate the common corrosives used in your area and describe their toxicology, clinical features, prognosis and approach to therapy
	Enumerate the commonly observed drug overdose in your area and describe their toxicology, clinical features, prognosis and approach to therapy
IM21.8	Enumerate the indications for psychiatric consultation and describe the precautions to be taken in a patient with suspected suicidal ideation / gesture

Number	Unit 22 - Mineral, Fluid Electrolyte and Acid base Disorder
	Enumerate the causes of hypercalcemia and distinguish the features of PTH vs non PTH mediated hypercalcemia
IM22.2	Describe the aetiology, clinical manifestations, diagnosis and clinical approach to primary hyperparathyroidism
IM22.3	Describe the approach to the management of hypercalcemia
IM22.4	Enumerate the components and describe the genetic basis of the multiple endocrine neoplasia syndrome
	Enumerate the causes and describe the clinical features and the correct approach to the diagnosis and management of the patient with hyponatremia
	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hyponatremia
	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hypokalemia
	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hyperkalemia
IM22.9	Enumerate the causes and describe the clinical and laboratory features of metabolic acidosis
IM22.10	Enumerate the causes of describe the clinical and laboratory features of metabolic alkalosis
IM22.11	Enumerate the causes and describe the clinical and laboratory features of respiratory acidosis
IM22.12	Enumerate the causes and describe the clinical and laboratory features of respiratory alkalosis

Number Unit 23 - Nutritional and Vitamin Deficiencies

IM23.1	Discuss and describe the methods of nutritional assessment in an adult and calculation of caloric requirements during illnesses
IM23.2	Discuss and describe the causes and consequences of protein caloric malnutrition in the hospital
	Discuss and describe the aetiology, causes, clinical manifestations, complications, diagnosis and management of common vitamin deficiencies
IM23.4	Enumerate the indications for enteral and parenteral nutrition in critically ill patients

Number Unit 24 - Geriatrics

Describe and discuss the epidemiology, pathogenesis, clinical evolution, presentation and course of common diseases in the elderly
Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of acute confusional states
Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of vascular events in the elderly
Describe and discuss the aetiopathogenesis clinical presentation identification, functional changes, acute care, stabilization, management and rehabilitation of depression in the elderly
Describe and discuss the aetiopathogenesis causes, clinical presentation, difference in discussion presentation identification, functional changes, acute care, stabilization, management and rehabilitation of dementia in the elderly
Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of personality changes in the elderly
Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of osteoporosis in the elderly
Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of CVA in the elderly
Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of COPD in the elderly
Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of the elderly undergoing surgery
Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of degenerative joint disease
Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of falls in the elderly

	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute
	care, stabilization, management and rehabilitation of common fractures in the elderly
	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute
	care, stabilization, management and rehabilitation of vision and visual loss in the elderly
	Describe and discuss the principles of physical and social rehabilitation, functional assessment, role of
	physiotherapy and occupational therapy in the management of disability in the elderly
	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute
	care, stabilization, management and rehabilitation of hearing loss in the elderly
IM24.18	Describe the impact of the demographic changes in ageing on the population
IM24.19	Enumerate and describe the social problems in the elderly including isolation, abuse, change in family
	structure and their impact on health.
IM24.20	Enumerate and describe social interventions in the care of elderly including domiciliary discussion services,
	rehabilitation facilities, old age homes and state interventions
IM24.21	Enumerate and describe ethical issues in the care of the elderly
IM24.22	Describe and discuss the aetiopathogenesis, clinical presentation, complications, assessment and
	management of nutritional disorders in the elderly
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Number Unit 25 - Miscellaneous Infections

IM25.1	Describe and discuss the response and the influence of host immune status, risk factors and comorbidities on zoonotic diseases (e.g. Leptospirosis, Rabies) and non-febrile infectious disease (e.g. Tetanus)
IM25.2	Discuss and describe the common causes, pathophysiology and manifestations of these diseases
IM25.3	Describe and discuss the pathophysiology and manifestations of these diseases
	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes
	Order and interpret diagnostic tests based on the differential diagnosis including: CBC with differential, blood biochemistry, peripheral smear, urinary analysis with sediment, Chest X ray, blood and urine cultures, sputum gram stain and cultures, sputum AFB and cultures, CSF analysis, pleural and body fluid analysis, stool routine and culture and QBC
IM25.8	Enumerate the indications for use of newer techniques in the diagnosis of these infections
	Develop and present an appropriate diagnostic plan based on the clinical presentation, most likely diagnosis in a prioritised and cost effective manner
	Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis

Number	Unit 26 - The role of the physician in the community
IM26.1	Enumerate and describe professional qualities and roles of a physician
IM26.2	Describe and discuss the commitment to lifelong learning as an important part of physician growth
IM26.3	Describe and discuss the role of non maleficence as a guiding principle in patient care
IM26.4	Describe and discuss the role of autonomy and shared responsibility as a guiding principle in patient care
IM26.5	Describe and discuss the role of beneficence of a guiding principle in patient care
IM26.6	Describe and discuss the role of a physician in health care system
IM26.7	Describe and discuss the role of justice as a guiding principle in patient care
IM26.8	Identify discuss medicolegal, socioeconomic and ethical issues as it pertains to organ donation
	Identify, discuss and defend medicolegal, sociocultural, economic and ethical issues as it pertains to rights, equity and justice in access to health care
IM26.10	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to confidentiality in patient care
	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to patient autonomy, patient rights and shared responsibility in health care
	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to decision making in health care including advanced directives and surrogate decision making

IM26.13 Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to decision make mergency care including situations where patients do not have the capability or capacity to give conservations.	nt
IMOC 44 Islandific allocates and defend medical and easies with real and othical issues as it mentalizes to recease in h	
IM26.14 Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to research in h	uillall
subjects	
IM26.15 Identify, discuss and defend, medicolegal, socio-cultural and ethical issues as they pertain to consent for surgical procedures	r
	412 0
IM26.16 Identify, discuss and defend medicolegal, socio-cultural, professional and ethical issues as it pertains to	the
physician patient relationship (including fiduciary duty)	
IM26.17 Identify, discuss physician's role and responsibility to society and the community that she/ he serves	
IM26.18 Identify, discuss and defend medicolegal, socio-cultural, professional and ethical issues in physician- in	dustrv
relationships	,
IM26.43 Identify, discuss and defend medicolegal, sociocultural, economic and ethical issues as they pertain to i	n vitro
fertilisation donor insemination and surrogate motherhood	
	diaal
IM26.44 Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues pertaining to me	aicai
negligence	
IM26.45 Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues pertaining to	
malpractice	
IM26.46 Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues in dealing with in	nnaired
physicians	npanoa
IM26.47 Identify, discuss and defend medicolegal, socio-cultural and ethical issues as they pertain to refusal of c	are
including do not resuscitate and withdrawal of life support	

Respiratory Medicine (TB & RD)

Number Unit 1 - Tuberculosis

CT1.1	Describe and discuss the epidemiology of tuberculosis and its impact on the work, life and economy of India
	Describe and discuss the microbiology of tubercle bacillus, mode of transmission, pathogenesis, clinical
	evolution and natural history of pulmonary and extra pulmonary forms (including lymph node, bone and CNS)
	Discuss and describe the impact of co-infection with HIV and other co-morbid conditions. Like diabetes on the
	natural history of tuberculosis
	Describe the epidemiology, the predisposing factors and microbial and therapeutic factors that determine
	resistance to drugs
	Generate a differential diagnosis based on the clinical history and evolution of the disease that prioritises the
	most likely diagnosis
	Order and interpret diagnostic tests based on the clinical presentation including: CBC, Chest X ray PA view,
	Mantoux, sputum culture and sensitivity, pleural fluid examination and culture, HIV testing
CT1.12	Enumerate the indications for tests including: serology, special cultures and polymerase chain reaction and
	sensitivity testing
CT1.13	Describe and discuss the origin, indications, technique of administration, efficacy and complications of the
	BCG vaccine
	Describe and discuss the pharmacology of various anti-tuberculous agents, their indications, contraindications,
	interactions and adverse reactions
	Prescribe an appropriate antituberculosis regimen based on the location of disease, smear positivity and
	negativity and comorbidities based on current national guidelines including directly observed tuberculosis
	therapy (DOTS)
	Describe the appropriate precautions, screening, testing and indications for chemoprophylaxis for contacts and
	exposed health care workers
	Define criteria for the cure of Tuberculosis; describe and recognise the features of drug resistant tuberculosis,
	prevention and therapeutic regimens
CT1.18	Educate health care workers on National Program of Tuberculosis and administering and monitoring the DOTS
	program
CT1.19	Communicate with patients and family in an empathetic manner about the diagnosis, therapy
Number	Unit 2: Obstructive airway disease
CT2.1	Define and classify obstructive airway disease
CT2.2	Describe and discuss the epidemiology, risk factors and evolution of obstructive airway disease

CT2.3	Enumerate and describe the causes of acute episodes in patients with obstructive airway disease
CT2.4	Describe and discuss the physiology and pathophysiology of hypoxia and hypercapneia
CT2.5	Describe and discuss the genetics of alpha 1 antitrypsin deficiency in emphysema
CT2.6	Describe the role of the environment in the cause and exacerbation of obstructive airway disease
CT2.7	Describe and discuss allergic and non-allergic precipitants of obstructive airway disease
CT2.10	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
CT2.11	Describe, discuss and interpret pulmonary function tests
CT2.13	Describe the appropriate diagnostic work up based on the presumed aetiology
CT2.14	Enumerate the indications for and interpret the results of: pulse oximetry, ABG, Chest Radiograph
CT2.15	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
CT2.16	Discuss and describe therapies for OAD including bronchodilators, leukotriene inhibitors, mast cell stabilisers, theophylline, inhaled and systemic steroids, oxygen and immunotherapy
CT2.17	Describe and discuss the indications for vaccinations in OAD
CT2.18	Develop a therapeutic plan including use of bronchodilators and inhaled corticosteroids
CT2.19	Develop a management plan for acute exacerbations including bronchodilators, systemic steroids, antimicrobial therapy
CT2.20	Describe and discuss the principles and use of oxygen therapy in the hospital and at home
CT2.24	Recognize the impact of OAD on patient's quality of life, well-being, work and family
CT2.25	Discuss and describe the impact of OAD on the society and workplace
CT2.26	Discuss and describe preventive measures to reduce OAD in workplaces
CT2.27	Demonstrate an understanding of patient's inability to change working, living and environmental factors that influence progression of airway disease

Psychiatry

Number	Number Unit 1 - Doctor patient relationship	
PS1.1	Establish rapport and empathy with patients	
PS1.2	Describe the components of communication	
PS1.3	Demonstrate breaking of bad news in a simulated environment	
PS1.4	Describe and demonstrate the importance of confidentiality in patient encounters	

Number Unit 2 - Mental health

PS2.1	Define stress and describe its components and causes
PS2.2	Describe the role of time management, study skills, balanced diet and sleep wake habits in stress avoidance
PS2.3	Define and describe the principles and components of learning memory and emotions
PS2.4	Describe the principles of personality development and motivation
PS2.5	Define and distinguish normality and abnormality
Number	Unit 3 - Introduction to psychiatry
PS3.1	Describe the growth of psychiatry as a medical specialty, its history and contribution to society
PS3.2	Enumerate, describe and discuss important signs & symptoms of common mental disorders
PS3.3	Elicit, present and document a history in patients presenting with a mental disorder
PS3.4	Describe the importance of establishing rapport with patients
PS3.5	Perform, demonstrate and document a mini mental examination
PS3.6	Describe and discuss biological, psychological & social factors & their interactions in the causation of mental disorders
PS3.7	Enumerate and describe common organic psychiatric disorders, magnitude, etiology and clinical features
PS3.8	Enumerate and describe the essential investigations in patients with organic psychiatric disorders

PS3.9	Describe the steps and demonstrate in a simulated environment family education in patients with organic
	psychiatric disorders
PS3.10	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychiatric disorders
PS3.11	Enumerate the appropriate conditions for specialist referral in patients with psychiatric disorders
PS3.12	Describe, discuss and distinguish psychotic & non-psychotic (Mood, Anxiety, Stress related) disorders

Number	Unit 4 -Substance use disorders
PS4.1	Describe the magnitude and etiology of alcohol and substance use disorders
PS4.2	Elicit, describe and document clinical features of alcohol and substance use disorders
PS4.3	Enumerate and describe the indications and interpret laboratory and other tests used in alcohol and substance abuse disorders
PS4.4	Describe the treatment of alcohol and substance abuse disorders including behavioral and pharmacologic therapy
PS4.5	Demonstrate family education in a patient with alcohol and substance abuse in a simulated environment
PS4.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in alcohol and substance abuse
PS4.7	Enumerate the appropriate conditions for specialist referral in patients with alcohol and substance abuse disorders

Number Unit 5 - Psychotic disorders

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PS5.1	Classify and describe the magnitude and etiology of schizophrenia & other psychotic disorders
PS5.2	Enumerate, elicit, describe and document clinical features, positive and negative symptoms of schizophrenia
PS5.3	Describe the treatment of schizophrenia including behavioural and pharmacologic therapy
PS5.4	Demonstrate family education in a patient with schizophrenia in a simulated environment
PS5.5	Enumerate and describe the pharmacologic basis and side effects of drugs used in schizophrenia
PS5.6	Enumerate the appropriate conditions for specialist referral in patients with psychotic disorders

Number	Unit 6 - Mood disorder
PS6.1	Classify and describe the magnitude and etiology of depression
PS6.2	Enumerate, elicit, describe and document clinical features in patients with depression
PS6.3	Enumerate and describe the indications and interpret laboratory and other tests used in depression
PS6.4	Describe the treatment of depression including behavioural and pharmacologic therapy
PS6.5	Demonstrate family education in a patient with depression in a simulated environment
PS6.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in depression
PS6.7	Enumerate the appropriate conditions for specialist referral in patients with depression

Number Unit 7 - Bipolar disorder

PS7.1	Classify and describe the magnitude and etiology of bipolar disorders
PS7.2	Enumerate, elicit, describe and document clinical features in patients with bipolar disorders
PS7.3	Enumerate and describe the indications and interpret laboratory and other tests used in bipolar disorders
PS7.4	Describe the treatment of bipolar disorders including behavioural and pharmacologic therapy
PS7.5	Demonstrate family education in a patient with bipolar disorders in a simulated environment
PS7.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in bipolar disorders
PS7.7	Enumerate the appropriate conditions for specialist referral in patients with bipolar disorders

Number	Unit 8 - Anxiety disorders
PS8.1	Enumerate and describe the magnitude and etiology of anxiety disorders

PS8.2	Enumerate, elicit, describe and document clinical features in patients with anxiety disorders
PS8.3	Enumerate and describe the indications and interpret laboratory and other tests used in anxiety disorders
PS8.4	Describe the treatment of anxiety disorders including behavioural and pharmacologic therapy
PS8.5	Demonstrate family education in a patient with anxiety disorders in a simulated environment.
PS8.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in anxiety disorders
PS8.7	Enumerate the appropriate conditions for specialist referral in anxiety disorders

Number	Unit 9 - Stress related disorders
PS9.1	Enumerate and describe the magnitude and etiology of stress related disorders
PS9.2	Enumerate, elicit, describe and document clinical features in patients with stress related disorders
PS9.3	Enumerate and describe the indications and interpret laboratory and other tests used in stress related disorders
PS9.4	Describe the treatment of stress related disorders including behavioural and psychosocial therapy
PS9.5	Demonstrate family education in a patient with stress related disorders in a simulated environment
PS9.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in stress related disorders
PS9.7	Enumerate the appropriate conditions for specialist referral in stress disorders

Unit 10 - Somatoform disorders
Enumerate and describe the magnitude and etiology of somatoform, dissociative and conversion disorders
Enumerate, elicit, describe and document clinical features in patients with somatoform, dissociative and conversion disorders
Enumerate and describe the indications and interpret laboratory and other tests used in somatoform, dissociative and conversion disorders
Describe the treatment of somatoform disorders including behavioural, psychosocial and pharmacologic therapy
Demonstrate family education in a patient with somatoform, dissociative and conversion disorders in a simulated environment
Enumerate and describe the pharmacologic basis and side effects of drugs used in somatoform, dissociative and conversion disorders;
Enumerate the appropriate conditions for specialist referral in patients with somato form dissociative and conversion disorders

Number	Unit 11 - Personality disorders
PS11.1	Enumerate and describe the magnitude and etiology of personality disorders
PS11.2	Enumerate, elicit, describe and document clinical features in patients with personality disorders
PS11.3	Enumerate and describe the indications and interpret laboratory and other tests used in personality disorders
PS11.4	Describe the treatment of personality disorders including behavioural, psychosocial and pharmacologic therapy
PS11.5	Demonstrate family education in a patient with personality disorders in a simulated environment
PS11.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in personality disorders
PS11.7	Enumerate the appropriate conditions for specialist referral

Number	Unit 12 - Psychosomatic disorders
PS12.1	Enumerate and describe the magnitude and etiology of psychosomatic disorders
PS12.2	Enumerate, elicit, describe and document clinical features in patients with magnitude and etiology of psychosomatic disorders
PS12.3	Enumerate and describe the indications and interpret laboratory and other tests of psychosomatic disorders

PS12.4	Describe the treatment of psychosomatic disorders including behavioural, psychosocial and pharmacologictherapy
PS12.5	Demonstrate family education in a patient with psychosomatic disorders in a simulated environment
PS12.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychosomatic disorders
PS12.7	Enumerate the appropriate conditions for specialist referral
Number	Unit 13 - Psychosexual and gender identity disorders
PS13.1	Enumerate and describe the magnitude and etiology of psychosexual and gender identity disorders
PS13.2	Enumerate, elicit, describe and document clinical features in patients with magnitude and etiology of psychosexual and gender identity disorders
PS13.3	Enumerate and describe the indications and interpret laboratory and other tests used in psychosexual andgender identity disorders
PS13.4	Describe the treatment of psychosexual and gender identity disorders including behavioural, psychosocial andpharmacologic therapy
PS13.5	Demonstrate family education in a patient with psychosexual and gender identity disorders in a simulated environment
PS13.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychosexual and genderidentity disorders
PS13.7	Enumerate the appropriate conditions for specialist referral

Numbe	Unit 14 - Psychiatric disorders in childhood and adolescence
r	
PS14.1	Enumerate and describe the magnitude and etiology of psychiatric disorders occurring in childhood and adolescence
PS14.2	Enumerate, elicit, describe and document clinical features in patients with psychiatric disorders occurring inchildhood and adolescence
PS14.3	Describe the treatment of stress related disorders including behavioural, psychosocial and pharmacologic therapy
PS14.4	Demonstrate family education in a patient with psychiatric disorders occurring in childhood and adolescencein a simulated environment
PS14.5	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychiatric disorders occurring in childhood and adolescence
PS14.6	Enumerate the appropriate conditions for specialist referral in children and adolescents with psychiatric disorders

Numbe	Unit 15 - Mental retardation
r	
PS15.1	Describe the aetiology and magnitude of mental retardation
PS15.2	Describe and discuss intelligence quotient and its measurement
PS15.3	Elicit and document a history and clinical examination and choose appropriate investigations in a patient withmental retardation
PS15.4	Describe the psychosocial interventions and treatment used in mental retardation
Numbo	I Init 16 - Beychiatric disordors in the olderly

NUMDE	Unit 16 - Psychiatric disorders in the elderly
r	
PS16.1	Enumerate and describe common psychiatric disorders in the elderly including dementia, depression and psychosis
PS16.2	Describe the aetiology and magnitude of psychiatric illness in the elderly
PS16.3	Describe the therapy of psychiatric illness in elderly including psychosocial and behavioural therapy
	Demonstrate family education in a patient with psychiatric disorders occurring in the elderly in a simulated environment
PS16.5	Enumerate the appropriate conditions for specialist referral in psychiatric disorders in the elderly

Numbe Unit 17 - Psychiatric disorders in childhood and adolescence	
r	
PS17.1	Enumerate and describe the recognition and clinical presentation of psychiatric emergencies (Suicide,
Deliberate Self Harm, Violent behaviour)	
PS17.2 Describe the initial stabilisation and management of psychiatric emergencies	Describe the initial stabilisation and management of psychiatric emergencies
PS17.3	Enumerate the appropriate conditions for specialist referral in patients with psychiatric emergencies

Number	Unit 18 - Therapeutics
PS18.1	Enumerate the indications and describe the pharmacology, dose and side effects of commonly use
	drugs
	in psychiatric disorders
PS18.2	Enumerate the indications for modified electroconvulsive therapy
PS18.3	Enumerate and describe the principles and role of psychosocial interventions in psychiatric illness includingpsychotherapy, behavioural therapy and rehabilitation

Number	Unit 19 - Miscellaneous
PS19.1	Describe the relevance, role and status of community psychiatry
PS19.2	Describe the objectives strategies and contents of the National Mental Health Programme
PS19.3	Describe and discuss the basic legal and ethical issues in psychiatry
PS19.4	Enumerate and describe the salient features of the prevalent mental health laws in India
PS19.5	Describe the concept and principles of preventive psychiatry and mental health promotion (positive mental health); and community education
PS19.6	Enumerate and describe the identifying features and the principles of participatory management of mentalillness occurring during and after disasters

Dermatology, Venereology & leprosy

Number	Unit 1 - Acne, (Etio pathogenesis & Management)
DR1.1	Enumerate the causative and risk factors of acne
DR1.3	Describe the treatment and preventive measures for various kinds of acne

Number Unit 2 - Vitiligo vulgaris

DR2.2 Describe the treatment of vitiligo

Number	Unit 3 - Papulosquamous disorders
DR3.1	Identify and distinguish psoriatic lesions from other causes
DR3.3	Enumerate the indications for and describe the various modalities of treatment of psoriasis.

Number	Unit 4 - Lichen Planus
DR4.2	Enumerate and describe the treatment modalities for lichen planus

Number	Unit 5 -Scabies
	Describe the etiology, microbiology, pathogenesis, natural history, clinical features, presentations and complications of scabies in adults and children
	Enumerate and describe the pharmacology, administration and adverse reaction of pharmacotherapies forscabies

Number	Unit 6 - Pediculosis

	Describe the sticlemy nother encode and discusses is factures of particularis in adults and shildren
DR6.1	Describe the etiology pathogenesis and diagnostic features of pediculosis in adults and children
Number	Unit 7 - Dermatophytosis
DR7.1	Describe the etiology, microbiology, pathogenesis and clinical presentations and diagnostic features of dermatophytosis in adults and children
DR7.3	Describe the pharmacology and action of antifungal (systemic and topical) agents. Enumerate side effects of antifungal therapy
Number	Unit 8 - Viral infections
DR8.1	Describe the etiology, microbiology, pathogenesis and clinical presentations and diagnostic features of common viral infections of the skin in adults and children
DR8.7	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for common viral illnesses of the skin
Number	Unit 9 - Leprosy
DR9.1	Classify, describe the epidemiology, etiology, microbiology, pathogenesis, clinical presentations and diagnostic features of Leprosy
DR9.4	Enumerate, describe and identify lepra reactions and supportive measures and therapy of lepra reactions
DR9.5	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for various classes of leprosy based on national guidelines
DR9.6	Describe the treatment of Leprosy based on the current guidelines
DR9.7	Enumerate and describe the complications of leprosy and its Management.
Number	Unit 10 - Sexually Transmitted Diseases
DR10.3	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for syphilis
DR10.4	Describe the prevention of congenital syphilis
DR10.6	Describe the etiology, diagnostic and clinical features of nonsyphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)
DR10.8	Enumerate the indications and describe the pharmacology, indications and adverse reactions of drugs used in the nonsyphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)
DR10.9	Describe the syndromic approach to ulcerative sexually transmitted disease.
DR10.10	Describe the etiology, diagnostic and clinical features and management of gonococcal and non-gonococcal urethritis.
DR10.11	Describe the etiology, diagnostic and clinical features and management of vaginal discharge.
Number	Unit 11 - HIV
DR11.1	Describe the etiology, pathogenesis and clinical features of thedermatologic manifestations of HIV
DR11.3	Enumerate the indications and describe the pharmacology,administration and adverse reaction of pharmacotherapies for dermatologic lesions in HIV
	Unit 12 - Dermatitis and Eczema
DR12.1	Describe the aetiopathogenesis of eczema
DR12.3	Classify and grade eczema
DR12.4	Enumerate the indications and describe the pharmacology, indications and adverse reactions of drugs used in the treatment of eczema
Number	Unit 14 - Urticaria Angioedema

Number	Unit 14 - Urticaria Angioedema
DR14.1	Describe the etiology, pathogenesis and clinical precipitating features and classification of Urticaria and
	angioedema.
	Enumerate the indications and describe the pharmacology indications and adverse reaction of drugs used in the urticaria and angioedema

Number	Unit 15 - Pyoderma
	Enumerate the indications and describe the pharmacology, indications and adverse reactions of topical and systemic drugs used in treatment of pyoderma
Number	Unit 17 - Nutritional Deficiencies and Skin
DR17.1	Enumerate and identify the cutaneous findings in vitamin A deficiency
DR17.2	Enumerate and describe the various skin changes in Vitamin B complex deficiency
DR17.3	Enumerate and describe the various changes in Vitamin C deficiency K
DR17.4	Enumerate and describe the various changes in Zinc deficiency
Number	Unit 18 - Systemic diseases and the skin

Number	onit to - Systemic diseases and the skin
DR18.1	Enumerate the cutaneous features of Type 2 diabetes
DR18.2	Enumerate the cutaneous features of hypo/hyper-thyroidism

Practical Syllabus: Topic and the competencies General Medicine

Number	Unit 1 - Heart Failure
IM1.10	Elicit document and present an appropriate history that will establish the diagnosis, cause and severity of heart failure including: presenting complaints, precipitating and exacerbating factors, risk factors exercise tolerance, changes in sleep patterns, features suggestive of infective endocarditis
IM1.11	Perform and demonstrate a systematic examination based on the history that will help establish the diagnosis and estimate its severity including: measurement of pulse, blood pressure and respiratory rate, jugular venous forms and pulses, peripheral pulses, conjunctiva and fundus, lung, cardiac examination including palpation and auscultation with identification of heart sounds and murmurs, abdominal distension and splenic palpation
IM1.12	Demonstrate peripheral pulse, volume, character, quality and variation in various causes of heart failure
IM1.13	Measure the blood pressure accurately, recognise and discuss alterations in blood pressure in valvular heart disease and other causes of heart failure and cardiac tamponade
IM1.14	Demonstrate and measure jugular venous distension
IM1.15	Identify and describe the timing, pitch quality conduction and significance of precordial murmurs and their variations
IM1.18	Perform and interpret a 12 lead ECG
IM1.22	Assist and demonstrate the proper technique in collecting specimen for blood culture
IM1.26	Develop document and present a management plan for patients with heart failure based on type of failure, underlying aetiology
IM1.30	Administer an intramuscular injection with an appropriate explanation to the patient
Numbor	Unit 2 - Acute Myocardial Infarction/ IHD
IM2.6	Elicit document and present an appropriate history that includes onset evolution, presentation risk factors, family history, comorbid conditions, complications, medication, history of atherosclerosis, IHD and coronary syndromes
IM2.7	Perform, demonstrate and document a physical examination including a vascular and cardiac examination that is appropriate for the clinical presentation
IM2.8	Generate document and present a differential diagnosis based on the clinical presentation and prioritise based on "cannot miss", most likely diagnosis and severity
IM2.9	Distinguish and differentiate between stable and unstable angina and AMI based on the clinical presentation
IM2.10	Order, perform and interpret an ECG
IM2.11	Order and interpret a Chest X-ray and markers of acute myocardial infarction
IM2.12	Choose and interpret a lipid profile and identify the desirable lipid profile in the clinical context
IM2.21	Observe and participate in a controlled environment an ACLS program

IM2.22 Perform and demonstrate in a mannequin BLS

Number Unit 3 - Pneumonia

IM3.4	Elicit document and present an appropriate history including the evolution, risk factors including immune status and occupational risk
IM3.5	Perform, document and demonstrate a physical examination including general examination and appropriate examination of the lungs that establishes the diagnosis, complications and severity of disease
IM3.6	Generate document and present a differential diagnosis based on the clinical features, and prioritise the diagnosis based on the presentation
IM3.7	Order and interpret diagnostic tests based on the clinical presentation including: CBC, Chest X ray PA view, Mantoux, sputum gram stain, sputum culture and sensitivity, pleural fluid examination and culture, HIV testing and ABG
IM3.8	Demonstrate in a mannequin and interpret results of an arterial blood gas examination
IM3.9	Demonstrate in a mannequin and interpret results of a pleural fluid aspiration

IM3.10	Demonstrate the correct technique in a mannequin and interpret results of a blood culture
IM3.11	Describe and enumerate the indications for further testing including HRCT, Viral cultures, PCR and specialized testing
IM3.12	Select, describe and prescribe based on the most likely aetiology, an appropriate empirical antimicrobial based on the pharmacology and antimicrobial spectrum
IM3.13	Select, describe and prescribe based on culture and sensitivity appropriate empaling antimicrobial based on the pharmacology and antimicrobial spectrum.
IM3.14	Perform and interpret a sputum gram stain and AFB

Number Unit 4 - Fever and febrile syndromes

IM4.9	Elicit document and present a medical history that helps delineate the aetiology of fever that includes the evolution and pattern of fever, associated symptoms, immune status, comorbidities, risk factors, exposure through occupation, travel and environment and medication use
IM4.10	Perform a systematic examination that establishes the diagnosis and severity of presentation that includes: general skin mucosal and lymph node examination, chest and abdominal examination (including examination of the liver and spleen)
IM4.13	Perform and interpret a sputum gram stain
IM4.14	Perform and interpret a sputum AFB
IM4.15	Perform and interpret a malarial smear
IM4.17	Observe and assist in the performance of a bone marrow aspiration and biopsy in a simulated environment
IM4.19	Assist in the collection of blood and wound cultures
IM4.20	Interpret a PPD (Mantoux)
IM4.23	Prescribe drugs for malaria based on the species identified, prevalence of drug resistance and national programs

Number	Unit 5 - Liver disease
IM5.9	Elicit document and present a medical history that helps delineate the aetiology of the current presentation and includes clinical presentation, risk factors, drug use, sexual history, vaccination history and family history
IM5.10	Perform a systematic examination that establishes the diagnosis and severity that includes nutritional status, mental status, jaundice, abdominal distension ascites, features of portosystemic hypertension and hepatic encephalopathy
IM5.12	Choose and interpret appropriate diagnostic tests including: CBC, bilirubin, function tests, Hepatitis serology and ascitic fluid examination in patient with liver diseases.
IM5.14	Outline a diagnostic approach to liver disease based on hyperbilirubinemia, liver function changes and hepatitis serology
IM5.15	Assist in the performance and interpret the findings of an ascitic fluid analysis

Number	Unit 6 - HIV
IM6.7	Elicit document and present a medical history that helps delineate the aetiology of the current presentation and includes risk factors for HIV, mode of infection, other sexually transmitted diseases, risks for opportunistic infections and nutritional status
IM6.8	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology for the presenting symptom
IM6.10	Choose and interpret appropriate diagnostic tests to diagnose opportunistic infections including CBC, sputum examination and cultures, blood cultures, stool analysis, CSF analysis and Chest radiographs
IM6.14	Perform and interpret AFB sputum
IM6.15	Demonstrate in a model the correct technique to perform a lumbar puncture

Number	Unit 7 - Rheumatologic problems:
IM7.11	Elicit document and present a medical history that will differentiate the aetiologies of disease
IM7.12	Perform a systematic examination of all joints, muscle and skin that will establish the diagnosis and severity of disease

Number	Unit 8 - Hypertension
IM8.10	Perform a systematic examination that includes: an accurate measurement of blood pressure, fundus examination, examination of vasculature and heart
IM8.11	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
IM8.15	Recognise, prioritise and manage hypertensive emergencies
IM8.17	Perform and interpret a 12 lead ECG

Number	Unit 9 - Anemia
IM9.3	Elicit document and present a medical history that includes symptoms, risk factors including GI bleeding, prior history, medications, menstrual history, and family history
IM9.4	Perform a systematic examination that includes: general examination for pallor, oral examination, DOAP session of hyper dynamic circulation, lymph node and splenic examination
IM9.5	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
IM9.6	Describe the appropriate diagnostic work up based on the presumed aetiology
IM9.9	Order and interpret tests for anemia including hemogram, red cell indices, reticulocyte count, iron studies, B12 and folate
IM9.10	Describe, perform and interpret a peripheral smear and stool occult blood
IM9.13	Prescribe replacement therapy with iron, B12, folate
IM9.19	Assist in a blood transfusion

Number	Unit 10 - Acute Kidney Injury and Chronic renal failure
IM10.12	Elicit document and present a medical history that will differentiate the aetiologies of disease, distinguish
	acute and chronic disease, identify predisposing conditions, nephrotoxic drugs and systemic causes
IM10.13	Perform a systematic examination that establishes the diagnosis and severity including determination of
	volume status, presence of edema and heart failure, features of uraemia and associated systemic disease
IM10.17	Describe and calculate indices of renal function based on available laboratories including FENa (Fractional
	Excretion of Sodium) and CrCI (Creatinine Clearance)
IM10.18	Identify the ECG findings in hyperkalemia
IM10.20	Describe and discuss the indications to perform arterial blood gas analysis: interpret the data
IM10.21	Describe and discuss the indications for and insert a peripheral intravenous catheter
IM10.22	Describe and discuss the indications, demonstrate in a model and assist in the insertion of a central venous
	or a dialysis catheter

Number Unit 11 - Diabetes Mellitus

IM11.7	Elicit document and present a medical history that will differentiate the aetiologies of diabetes including risk factors, precipitating factors, lifestyle, nutritional history, family history, medication history, co-morbidities and target organ disease
IM11.8	Perform a systematic examination that establishes the diagnosis and severity that includes skin, peripheral pulses, blood pressure measurement, fundus examination, detailed examination of the foot (pulses, nervous and deformities and injuries)
IM11.11	Order and interpret laboratory tests to diagnose diabetes and its complications including: glucoses, glucose tolerance test, glycosylated hemoglobin, urinary micro albumin, ECG, electrolytes, ABG, ketones, renal function tests and lipid profile
IM11.12	Perform and interpret a capillary blood glucose test
IM11.13	Perform and interpret a urinary ketone estimation with a dipstick

Number	Unit 12 - Thyroid dysfunction
IM12.5	Elicit document and present an appropriate history that will establish the diagnosis cause of thyroid dysfunction and its severity
IM12.6	Perform and demonstrate a systematic examination based on the history that will help establish the diagnosis and severity including systemic signs of thyrotoxicosis and hypothyroidism, palpation of the pulse for rate and rhythm abnormalities, neck palpation of the thyroid and lymph nodes and cardiovascular findings
IM12.7	Demonstrate the correct technique to palpate the thyroid

	Order and interpret diagnostic testing based on the clinical diagnosis including CBC, thyroid function tests and ECG and radio iodine uptake and scan
IM12.10	Identify atrial fibrillation, pericardial effusion and bradycardia on ECG
IM12.11	Interpret thyroid function tests in hypo and hyperthyroidism

Number Unit 13 - Common malignancies

IM13.7	Elicit document and present a history that will help establish the aetiology of cancer and includes the appropriate risk factors, duration and evolution
IM13.8	Perform and demonstrate a physical examination that includes an appropriate general and local examination that excludes the diagnosis, extent spread and complications of cancer
IM13.9	Demonstrate in a mannequin the correct technique for performing breast exam, rectal examination and cervical examination and pap smear
IM13.10	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis
IM13.11	Order and interpret diagnostic testing based on the clinical diagnosis including CBC and stool occult blood and prostate specific antigen

Number	Unit 14 - Obesity
IM14.6	Elicit and document and present an appropriate history that includes the natural history, dietary history, modifiable risk factors, family history, clues for secondary causes and motivation to lose weight
IM14.7	Perform, document and demonstrate a physical examination based on the history that includes general examination, measurement of abdominal obesity, signs of secondary causes and comorbidities
IM14.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis
IM14.9	Order and interpret diagnostic tests based on the clinical diagnosis including blood glucose, lipids, thyroid function tests etc.

Number	Unit 15 - GI bleeding
IM15.2	Enumerate, describe and discuss the evaluation and steps involved in stabilizing a patient who presents with acute volume loss and GI bleed
IM15.4	Elicit and document and present an appropriate history that identifies the route of bleeding, quantity, grade volume loss, duration, etiology, comorbid illnesses and risk factors
IM15.5	Perform, demonstrate and document a physical examination based on the history that includes genera examination, volume assessment and appropriate abdominal examination
IM15.6	Distinguish between upper and lower gastrointestinal bleeding based on the clinical features
IM15.7	Demonstrate the correct technique to perform an anal and rectal examination in a mannequin or equivalent
IM15.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis
IM15.9	Choose and interpret diagnostic tests based on the clinical diagnosis including complete blood count, PT and PTT, stool examination, occult blood, liver function tests, H.pylori test.
IM15.11	Develop, document and present a treatment plan that includes fluid resuscitation, blood and blood component transfusion, and specific therapy for arresting blood loss
IM15.13	Observe cross matching and blood / blood component transfusion
IM15.17	Determine appropriate level of specialist consultation
IM15.18	Counsel the family and patient in an empathetic non-judgmental manner on the diagnosis and therapeutic options

Number	Unit 16 - Diarrheal disorder
IM16.4	Elicit and document and present an appropriate history that includes the natural history, dietary history, travel, sexual history and other concomitant illnesses
IM16.5	Perform, document and demonstrate a physical examination based on the history that includes general examination, including an appropriate abdominal examination
IM16.6	Distinguish between diarrhea and dysentery based on clinical features
IM16.7	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis

IM16.8	Choose and interpret diagnostic tests based on the clinical diagnosis including complete blood count, and stool examination
IM16.9	Identify common parasitic causes of diarrhea under the microscope in a stool specimen
IM16.10	Identify vibrio cholera in a hanging drop specimen
IM16.15	Distinguish based on the clinical presentation Crohn's disease from Ulcerative Colitis

Number Unit 17 - Headache

IM17.2	Elicit and document and present an appropriate history including aura, precipitating aggravating and
	relieving factors, associated symptoms that help identify the cause of headaches
IM17.4	Perform and demonstrate a general neurologic examination and a focused examination for signs of
	intracranial tension including neck signs of meningitis
IM17.5	Generate document and present a differential diagnosis based on the clinical features, and prioritise the
	diagnosis based on the presentation
IM17.6	Choose and interpret diagnostic testing based on the clinical diagnosis including imaging
IM17.8	Demonstrate in a mannequin or equivalent the correct technique for performing a lumbar puncture
IM17.9	Interpret the CSF findings when presented with various parameters of CSF fluid analysis

Number Unit 18 - Cerebrovascular accident

IM18.3	Elicit and document and present an appropriate history including onset, progression, precipitating and aggravating relieving factors, associated symptoms that help identify the cause of the cerebrovascular accident
IM18.5	Perform, demonstrate & document physical examination that includes general and a detailed neurologic examination as appropriate, based on the history
IM18.9	Choose and interpret the appropriate diagnostic and imaging test that will delineate the anatomy and underlying cause of the lesion
IM18.10	Choose and interpret the appropriate diagnostic testing in young patients with a cerebrovascular accident (CVA)
IM18.16	Enumerate the indications describe and observe the multidisciplinary rehabilitation of patients with a CVA

Number	Unit 19 - Movement disorders
IM19.3	Elicit and document and present an appropriate history including onset, progression precipitating and aggravating relieving factors, associated symptoms that help identify the cause of the movement disorders
IM19.4	Perform, demonstrate and document a physical examination that includes a general examination and a detailed neurologic examination using standard movement rating scales
IM19.5	Generate document and present a differential diagnosis and prioritise based on the history and physical examination
IM19.6	Make a clinical diagnosis regarding on the anatomical location, nature and cause of the lesion based on the clinical presentation and findings
IM19.7	Choose and interpret diagnostic and imaging tests in the diagnosis of movement disorders

Number	Unit 20 - Envenomation
IM20.2	Describe, demonstrate in a volunteer or a mannequin and educate (to other health care workers / patients) the correct initial management of patient with a snake bite in the field
IM20.4	Elicit and document and present an appropriate history, the circumstance, time, kind of snake, evolution of symptoms in a patient with snake bite
IM20.5	Perform a systematic examination, document and present a physical examination that includes general examination, local examination, appropriate cardiac and neurologic examination
IM20.6	Choose and interpret the appropriate diagnostic testing in patients with snake bites

Number	Unit 21 - Poisoning
IM21.5	Observe and describe the functions and role of a poison center in suspected poisoning
	Describe the medico legal aspects of suspected suicidal or homicidal poisoning and demonstrate the correct procedure to write a medico legal report on a suspected poisoning

Number	Unit 22 - Mineral, Fluid Electrolyte and Acid base Disorder
IM22.13	Identify the underlying acid based disorder based on an ABG report and clinical situation

Number	Unit 23 - Nutritional and Vitamin Deficiencies
IM23.5	Counsel and communicate to patients in a simulated environment with illness on an appropriate balanced
	diet

 Number
 Unit 24 - Geriatrics

 IM24.2
 Perform multidimensional geriatric assessment that includes medical, psycho-social and functional components

Number	Unit 25 - Miscellaneous Infections
IM25.4	Elicit document and present a medical history that helps delineate the aetiology of these diseases that includes the evolution and pattern of symptoms, risk factors, exposure through occupation and travel
IM25.5	Perform a systematic examination that establishes the diagnosis and severity of presentation that includes: general skin, mucosal and lymph node examination, chest and abdominal examination (including examination of the liver and spleen)
IM25.9	Assist in the collection of blood and other specimen cultures

Number	Unit 26 - The role of the physician in the community					
IM26.19	Demonstrate ability to work in a team of peers and superiors					
IM26.20	Demonstrate ability to communicate to patients in a patient, respectful, non threatening, non udgmental and empathetic manner					
IM26.21	emonstrate respect to patient privacy					
IM26.22	emonstrate ability to maintain confidentiality in patient care					
IM26.23	Demonstrate a commitment to continued learning					
IM26.24	Demonstrate respect in relationship with patients, fellow team members, superiors and other health careworkers					
IM26.25	Demonstrate responsibility and work ethics while working in the health care team					
IM26.26	Demonstrate ability to maintain required documentation in health care (including correct use of medicalrecords)					
IM26.27	Demonstrate personal grooming that is adequate and appropriate for health care responsibilities					
IM26.28	Demonstrate adequate knowledge and use of information technology that permits appropriate patient careand continued learning					
IM26.29	Communicate diagnostic and therapeutic options to patient and family in a simulated environment					
IM26.30	Communicate care options to patient and family with a terminal illness in a simulated environment					
IM26.31	Demonstrate awareness of limitations and seeks help and consultations appropriately					
IM26.32	Demonstrate appropriate respect to colleagues in the profession					
IM26.33	Demonstrate an understanding of the implications and the appropriate procedures and response to befollowed in the event of medical errors					
IM26.34	Identify conflicts of interest in patient care and professional relationships and describe the correct responseto these conflicts					
IM26.35	Demonstrate empathy in patient encounters					
IM26.36	Demonstrate ability to balance personal and professional priorities					
IM26.37	Demonstrate ability to manage time appropriately					
IM26.38	Demonstrate ability to form and function in appropriate professional networks					
IM26.39	Demonstrate ability to pursue and seek career advancement					
IM26.40	Demonstrate ability to follow risk management and medical error reduction practices where appropriate					
IM26.41	Demonstrate ability to work in a mentoring relationship with junior colleagues					
IM26.42	Demonstrate commitment to learning and scholarship					
IM26.48	Demonstrate altruism					

IM26.49	Administer	informed	consent	and	appropriately	address	patient queries	to a	a patient	being	enrolled
	in aresearcl	h protoco	l in a sim	ulate	d environment						

RESPIRATORY MEDICINE (TB & RD)

NUMBER	UNIT: TUBERCULOSIS
CT 1.5	Elicit, document and present an appropriate medical history that includes risk factor, contacts, symptoms including cough and fever CNS and other manifestations
CT 1.6	Demonstrate and perform a systematic examination that establishes the diagnosis based on the clinical presentation that includes a a) general examination, b) examination of the chest and lung including loss of volume, mediastinal shift, percussion and auscultation (including DOAP session of lung sounds and added sounds) c) examination of the lymphatic system and d) relevant CNS examination
CT 1.7	Perform and interpret a PPD (mantoux) and describe and discuss the indications and pitfalls of the test
CT 1.10	Perform and interpret an AFB stain
CT 1.11	Assist in the performance, outline the correct tests that require to be performed and interpret the results of a pleural fluid aspiration

NUMBER	UNIT: COPD
CT 2.8	Elicit document and present a medical history that will differentiate the aetiologies of obstructive airway disease, severity and precipitants
CT 2.9	Perform a systematic examination that establishes the diagnosis and severity that includes measurement of respiratory rate, level of respiratory distress, effort tolerance, breath sounds, added sounds, identification of signs of consolidation pleural effusion and pneumothora
CT 2.12	Perform and interpret peak expiratory flow rate
CT 2.21	Describe discuss and counsel patients appropriately on smoking cessation
CT 2.22	Demonstrate and counsel patient on the correct use of inhalers
CT 2.23	Communicate diagnosis treatment plan and subsequent follow up plan to patients
CT 2.27	Demonstrate an understanding of patient's inability to change working, living and environmental factors that influence progression of airway disease
CT 2.28	Demonstrate an understanding for the difficulties faced by patients during smoking cessation

Dermatology

Number	Торіс						
DR1.2	Identify and grade the various common types of acne						
DR2.1	dentify and differentiate vitiligo from other causes of hypopigmented lesions						
DR3.2	Demonstrate the grattage test						
DR4.1	lentify and distinguish lichen planus lesions from other causes						
DR5.2	Identify and differentiate scabies from other lesions in adults and children						
DR6.2	lentify and differentiate pediculosis from other skin lesions in adults and children						
DR7.2	Identify Candida species in fungal scrapings and KOH mount						
DR8.2	Identify and distinguish herpes simplex and herpes labialis from other skin lesions						
DR8.3	Identify and distinguish herpes zoster and varicella from other skin lesions						
DR8.4	Identify and distinguish viral warts from other skin lesions						
DR8.5	Identify and distinguish molluscum contagiosum from other skin lesions						
DR8.6	Enumerate the indications, describe the procedure and perform a Tzanck smear						
DR9.2	Demonstrate (and classify based on) the clinical features of leprosy including an appropriate neurologicexamination						
DR9.3	Enumerate the indications and observe the performance of a slit skin smear in patients with leprosy						
DR10.1	Identify and classify syphilis based on the presentation and clinical manifestations						
DR10.2	Identify spirochete in a dark ground microscopy						
DR10.7	Identify and differentiate based on the clinical features non-syphilitic sexually transmitted diseases(chancroid, donovanosis and LGV)						
DR11.2	Identify and distinguish the dermatologic manifestations of HIV, its complications, opportunistic infections and adverse reactions of Therapy.						
DR12.2	Identify eczema and differentiate it from lichenification and changes of aging						
DR12.5	Define erythroderma. Enumerate and identify the causes of erythroderma. Discuss the treatment						
DR12.6	Identify and distinguish exfoliative dermatitis from other skin lesions						
DR12.7	Identify and distinguish fixed drug eruptions and Steven Johnson syndrome from other skin lesions						
DR13.1	Distinguish bulla from vesicles						
DR13.2	Demonstrate the Tzanck test, nikolsky sign and bulla spread sign						
DR13.3	Calculate the body surface area of involvement of vesiculobullous lesions						
DR14.2	Identify and distinguish urticarial from other skin lesions						
DR14.3	Demonstrate dermographism						
DR14.4	Identify and distinguish angioedema from other skin lesions						
DR15.1	Identify and distinguish folliculitis impetigo and carbuncle from other skin lesions						
DR15.2	Identify staphylococcus on a gram stain						
DR15.4	Enumerate the indications for surgical referral						
DR16.1	Identify and distinguish skin lesions of SLE						
DR16.2	Identify and distinguish Raynaud's phenomenon						

DR17.1	Enumerate and identify the cutaneous findings in vitamin A deficiency
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AETCOM MODULE

Competency No.	Competency
4.1A	The student should be able to: Demonstrate ability to communicate to patients in a patient, respectful, nonthreatening, non-judgmental and empathetic manner
4.1B	The student should be able to: Communicate diagnostic and therapeutic options to patient and family in a simulated environment
4.2	The student should be able to: Identify and discuss medico-legal, socio-economic and ethical issues as it pertains to organ donation

ASSESSMENT

General MedicineReference:

National Medical Commission (Undergraduate Medical Education) Guidelines, 2023

Internal assessmentTheory IA:

- 7 Internal assessment exams in General Medicine (one in II MBBS, one in III MBBS Part I, Five in III MBBS –Part II; Respiratory Medicine, Psychiatry, Dermatology syllabus will included in General medicine internal assessment).
- Formative assessment will include day to day assessment, AETCOM, AITO, Assignments, quiz and tutorials.

Practical IA:

- 4 Internal assessment exams (one in II MBBS, one in III MBBS Part I, Two in III MBBS – Part II) will beconducted.
- Formative assessments will include day to day assessment Record book / Logbook, AETCOM.

Note: As per new guidelines under Assessment module mentioned above, Internal Assessment marks willnot be added to Final Summative University Examination but will be shown as a separate head under the Subject.

S.No.	Roll No.	Name of Student	Formative Assessment_Theory				Continuous Internal assessment_Theory					
			1st PCT Theory	2nd PCT Theory	Theory	Home Continuous Assignmen Class Test	Seminar	Museum study	Library assignments	Attendance Theory	Tota	
					(Paper I & II)	t	(LMS)	S	elf Directed Lea	rning		
			100	100	200	15	30	15	15	15	10	500
	· · · · ·											
	& Head		L									

Faculty	: Final MBB	IS	Year/Phase- I	Part - H								
			Formative Assessment			Cont	tinuous Intern	al Assessme	nt (Practica	al)		
S.No. Roll No.	Roll No.	Name of Student	lst PCT Practical/First Ward Leaving Examination		Prelims Practical	Log book (200) Journal (Record book/Portf olio)					Attendance (Practical)	Tota
						Certifiable skill based competencies (Through OSPE/OSCE/Spots/Exercise/Other)	AETCOM competencies	SVL Lab activity	Research			
			100	100	200	100	40	40	20	40	10	650
	sor & Head tment of											

Eligibility to appear for University Examination

Attendance Eligibility	5% in theory and 80% in clinical postings in each subject acluding allied branches and in each professional year. 5% attendance in the electives. 75% attendance in Professional Development Programme (AETCOM Module) earners must secure at least 50% marks of the total marks					
Internal Assessment	Learners must secure at least 50% marks of the total marks (combined in theory and practical / clinical; not less than 40 % marks in theory and practical separately)					

University examination

Theory Examination

Theory examination consists of two papers (Paper I & II). Each Theory paper will have 100 marks **Question paper pattern -Paper-I**

Theory question paper pattern for 100 marks for a duration of 3 hours

MCQ (15 Direct & 5 Case Based):	20 X 1	= 20 marks
Long Answer Question: Direct/Case Based Essay:	2 X 15	= 30 marks
Short Answer Question (SAQ):	10 X 5	= 50 marks

Question paper pattern - Paper-II

Theory question paper pattern for 100 marks for a duration of 3 hours

MCQ (15 Direct & 5 Case Based):	20 X 1	= 20 marks
Section A (General Medicine) Long Answer Question: Direct/Case Based Essay	1 X 15	= 15 marks
Short Answer Question (SAQ)	5 X 5	= 25 marks
Section B (Psychiatry, Dermatology, Venereology & Leprosy, Respiratory Medicine, AETCOM)		
Long Answer Question: Direct/Case Based Essay	1 X 15	= 15 marks
Short Answer Question (SAQ)	5 X 5	= 25 marks

Syllabus for Paper I & II:

General Medicine Paper I

Unit	Торіс
Unit 1, Unit 2, Unit 8	Cardiology
Unit 10	Renal system

Unit 3, Unit 4, Unit 6, Unit 25	Infectious disease and HIV miscellaneous infections
Unit 5, Unit 15, Unit 16	GIT & hepatology
Unit 20, Unit 21,	Toxicology
Unit 23, Unit 14	Nutrition & obesity
Unit 22	Critical care, fluid electrolite and acid based disorders

General Medicine Paper II

Unit	Торіс
Unit 17, Unit 18, Unit 19	CNS
Unit 7	Musculoskeletal
Unit 9	Haematology
Unit 11, Unit 12	Endocrinology & diabetes
Unit 13	Oncology
Unit 24, Unit 26	Geriatrics & medical ethics

Psychiatry, Dermatology, Venereology & Leprosy, Respiratory Medicine

Unit	Торіс
Unit 1, Unit 2 (CT)	Respiratory System
Unit 1 -19 (PS)	Psychiatry
Unit 1 – 18 (DR)	Dermatology, Venereology & Leprosy

Topics and marks distribution matrix for PAPER - I

General Medicine - 100 Per Paper (200 Marks) (20 MCQ, 2 Essay, 10 Short Notes)

S. No	TOPICS	MCI Competency Number	No. of MCQs	Weightage in %	LAQ	SAQ
1.	Cardiology	IM 1.1 TO IM1.19, IM 1.16,1.17, 1.21, 1.24,1.25,1.28,1.29 IM 2.1 TO 2.5, IM 2.13 TO 2.20, 2.23, IM 8.1 TO 8.9, 8.12, 8.13, 8.14, 8.20	3	15 to 18	~	~
2.	Renal system	IM 10.1 TO 10.11, 10.14, 10.15,10.16,10.19,10.24,10.26	3	15 to 18	~	~
3.	Infectious disease and HIV, Miscellaneou s Infections	IM 4.1 TO 4.8, 4.11,4.12,4.16,4.18, 4.21,4.22, IM 6.1 TO 6.9,6.11,6.12,6.13, 6.16,6.17, IM 25.1 TO 25.3, 25.6,25.7,25.8,25,10 IM 3.1 TO 3.3, 3.15 TO 3.17	3	15 to 18	*	~
4.	GIT & Hepatology	IM 5.1 TO 5.8, IM 5.11,5.13,5.16,5.18, IM 15.1,15.3,15.10,15.12,5.14,5.15 ,5.16, IM 16.1 TO 16.3. 16.11 TO 16.14,16.16,16.17	3	15 to 18	~	~
5.	Toxicology	IM 20.1,20.3,20.7,20.8, 20.9, IM 21.1 TO 21.4, 21.8	3	7 to 10		~
6.	Nutrition & Obesity	IM 23.1 TO 23.4, IM 14.1 TO 14.5, IM 14.10 ,4.13,14.14,14.15	2	6 to 9		~
7.	Critical care, fluid electrolite	IM 22.1 TO 22.12	3	6 to 9		~

a	ind acid			
b	ased			
di	lisorders			

Topics and marks	distribution	matrix for	PAPER II
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Topics and marks distribution matrix for PAPER II						
S. No	TOPICS	MCI Competency Number	No. of MCQs	Weightage in %	LAQ	SAQ
1	CNS	IM 17.1,17.3,17.7,17.10 TO 17.13, IM 18.1,18.2,18.4,18.8,18.11 TO 18.15, IM 19.1 ,19.2, 19.8,19.9	3	15 to 18	~	~
2	Respiratory Medicine	CT 1.1 TO 1.19, CT 2.1 TO 2.27	3	20	~	✓
3	Psychiatry	PS 1.1 -1.4, PS 2.1 -2.5, PS 3.1 TO 3.12, 4.1 TO 4.7, PS 5.1 TO 5.5, PS 6.1 TO 6.7, PS 7.1 TO 7.7, PS 8.1 TO 8.7, PS 9.1 TO 9.7, PS 10.1 TO 10.7, PS 11.1 TO 11.7, PS 12.1 TO 12.7, PS 13.1 TO 13.7, PS 14.1 TO 14.6, PS 15.1 TO 15.4, PS 16.1 TO 16.5, PS 17.1 TO 17.3, PS 18.1 TO 18.3 , PS 19.1 TO 19.6	3	15	~	~
4	Dermatology, Venereology & Leprosy	DR1.1 to 1.3, 3.1, 3.3, 4.2, 5.1, 5.3,6.1,7.1,7.3,8.1, 8.7, 9.1, 9.4, to DR9.7, 10.3,10.4, 10.6,10.8 to DR11.1, 11.3, 12.1, 12.3, 12.4, 14.1, 14.5, 15.3, 17.1 to DR18.2	3	15	✓	✓
5	Musculoskeletal	IM 7.1 TO 7.10, 7.14 TO 7.17,7.19,7.23,7.27	1	3 to 5		~
6	Haematology	IM 9.1, 9.2,9.7,9.8,9.11,9.12,9.14,9.17, 9.18,9.21	2	5 to 8		~
7	Endocrinology & diabetes	IM 12.1 TO 12.4, 12.8, 12.12,12.13,12.15, IM 11.1 TO 11.6, 11.9,11.10,11.14 TO 11.18,11.22 TO 11.24	3	5 to 9		~
8	Oncology	IM 13.1 TO 13.6, 13.12 TO 13.15,13.17 ,13.18,13.19	1	3 to 5		~
9	Geriatrics & medical ethics	IM 24.1, 24.3 TO 24.22. IM 26.1 TO 26.8, 26.43 TO 26.47	1	3 to 5		~
10	AETCOM	Modules 4.1A ,4.1B, 4.3	1	3		~

Practical Syllabus

LONG CASE	SHORT CASE
CVA	CVA- Motor system examination
CVS	Facial Palsy
AS,AR,MS,MR,ASD,VSD,Heart Failure	
Pulmonology	Pulmonology
COPD, Asthma, Fibro cavity / Fibrosis, Pneumonia,	COPD, Asthma, Fibro cavity / Fibrosis,
Pleural effusion, Bronchectasis	Pneumonia, Pleural effusion, Bronchectasis

Abdomen	Abdomen
Cirrohosis / PHT, Hepato Splenomegaly, Ascites,	Cirrohosis / PHT, Hepato Splenomegaly,
Hepatomegaly, Splenomegaly	Ascites, Hepatomegaly, Splenomegaly
S	potters
Anemia	Vitiligo
Pedal Edema	Hypo / Hyper thyroidism
Clubbing	Rheumatoid Arthritis
Cyanosis	Hansen's disease
Psoriasis	
Tenia versiocolar	

Distribution of Marks for Practical Examinations: Practical examination will be

conducted under headings of Practical examination and Viva Voce.

1.	Practical Examination	(100marks)
	LONG CASE	50
	SHORT CASE (2x 25)	50
2	Viva –Voce Examination	(100 marks)
	IMAGING	15
	CHARTS	15
	INSTRUMENT	15
	THERAPEUTICS	15
	OSCE	40
	TOTAL MARKS	200 MARKS

	Maximum Marks	Passing minimum in each component	Passing Criteria (Theory & Practical)
Theory (Paper I & Paper II)	200	100 (50% of marks in aggregate both papers together)	200 [Mandatory 50% marks in theory and practical separately (practical =practical/ clinical + viva) [theory=theory paper(s) only]
Practical's + viva	200 (100+100)	100 (Minimum 50 % in practical / Viva)	

There shall be no grace marks to be considered for passing in an examination.

RECOMMENDED BOOKS:

General MedicineTextbooks:

S. No	Name of Book	Edition (Year)	Author/Editor	Publisher
1.	Davidson's Principles And Practice of Medicine	24 th Edition (2022)	Stuart H.Ralston	Elsevier
2.	Harrison's principles of Internal Medicine	21st Edition (2022)	Jameson/ fauci / Kasper/ Hauser/ Longo Loscalzo	Mcgraw Hill
3.	Kumar & Clark Clinical Medicine	10 th Edition (2021)	Parveen Kumar, Michael Clark	Elsevier
4.	Hutchinson's Clinical Methods	25 th Edition (2022)	Michael Glynn	Elsevier
5.	Macleod's Clinical Examination	15 th Edition (2023)	J.Alastair Innes	Elsevier
6.	Tuberculosis	3 rd edition	S.K Sharma, Alladi Mohan	Jaypee

Respiratory Medicine (TB & RD)

S. No	Name of Book	Edition/Year	Author/Editor	Publisher
1	Crofton and Douglas Respiratory diseases	5 th Edition	Anthony Seaton / Douglas Seaton / A.Gordon Leitch	Wiley
2.	Tuberculosis	3 rd edition	S.K Sharma, Alladi Mohan	Jaypee
3	Toman's Tuberculosis Case detection, Treatment and Monitoring	2 nd Edition	Frieden	WHO

Psychiatry:

S. No	Title	Author/Editor	Publisher	Edition/Year
1	Kaplan and Sadock's Synopsis of Psychiatry	Sadock	Wolters Kluwer	12 th Edition (2021)
2	International Classification of Diseases– 11	WHO	WHO	2022
3	Diagnostic and Statistical Manual ofMental Disorders-5- TR	American Psychiatric Association	American Psychiatric Association	5 th Edition (2022)
4	Short textbook of Ahuja	Neeraj Ahuja	Jaypee	7 th Edition

Dermatology, Venereology & Leprosy:

S. No	Name of Book	Author(s)	Edition/ Year	Publisher
1	Roxburg Text Book of Dermatology	RonaldMark s,Richard Motley	19 th edition (2022)	Caroline Makpeace, Jaypee
2	IADVL Concise Textbook Of Dermatology	Vishalakshi Viswanath	2 nd Edition (2022)	Jaypee
3	Andrews' Diseases of the Skin,International Edition: Clinical Dermatology	WilliamJames	13 th Edition (2019)	Elsevier
4	Thappa Textbook of Dermatology	Devinder Mohan Thappa	4 th Edition	Elsevier

SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES, TIRUPATI SRI PADMAVATHI MEDICAL COLLEGE FOR WOMEN 3rd MBBS PART II – PRE FINAL EXAMINATION

Рареі	: General Medicine Paper -1		Dt:
	3 hours actions to the students: All ques	stions are compulsory	Maximum Marks:100
 	Multiple choice questions:		20 x 1= 20M
1.	Barret's esophagus is commonly a) Adenocarcinoma c) Sarcoma	y associated with one of the following b) Squamous cell carcinoma d) Gastrointestinal stromal tumor	g ()
2.	D-xylose test is not done in whic a)Pancreatic insufficiency c) Small intestinal mucoid diseas	b) Malabsorption	() prption in small intestine
3.	Toxic megacolon is most commo a) Ulcerative colitis c) Whipple's disease	only associated with b) Crohn's disease d) Reiter's disease	()
4.	Which of the following is not an a) K+ : >6 mmol/L c) Sr.Creatinine: >7 mg%	indication for renal replacement the b) Fluid overload d) Urine output > 600ml/ 24 hours	erapy ()
5.	Chyluria is associated with passa a) White c) Straw coloured	age of urine which is b) Dark yellow d) Brown	()
6.	All are true of nephrotic syndroi a) RBC casts in urine c) Oedema	me except b) Hypoproteinemia d) Hyperlipidemia	()
7.	Increased IgA deposits are seen a) Chronic pyelonephritis c) FSGS		()
8.	P wave in ECG is due to a) Atrial depolarization c) Ventricular depolarization	b) Atrial repolarization d) Ventricular repolarization	()
9.	The murmur of HOCM is decrea a) Supine position c) Volvular moment	used in which of the following b) Standing d) Amyl nitrate inhalation	()
10.	All of the following are used for a) Fenoldopam c) Nitroprusside	hypertensive emergencies except b) Nitroglycerine d) Clonodine	()

11.	Which of the following hepatitis vi a) Hepatitis B b) Hepatitis C	irus cause gastrointestinal infection c) Hepatitis D d) Hepatitis E	()
12.	Diagnostic criteria for bulimia nerv a) Recurrent bouts of binge eating c) Amenorrhoea for atleast 3 mon	b) Self-induced vomiting	()
13.	, , , ,	rmal anion gap metabolic acidosis) Ketoacidosis I) Diarrhoea	()
14.		which poisoining 9) Lithium 1) Aspirin	()
15.	a) Bronchorrhoea b	c features of OPC poisoning except) Seizures I) Miosis	()
16.	-	n A deficiency) Serum retinyl esters I) coagulation assays	()
17.		s of anti-tuberculosis treatment) Peripheral neuropathy I) GI toxicity	()
18.	a) Young age b	ality from critical illness are all except) Severe comorbidities I) Multiple organ failure	()
19.		ransmitted through skin except) Dracunculosis) Ascaries	()
20.	a) Bacillus cerans b	fectious gastroenteritis of <6 hours ind) Salmonella I) Clostridium enterotoxin	cubation except ()

II Long answer questions

- 1. Enumerate various causes of viral hepatitis. Discuss lab diagnosis and management of acute hepatitis B
- 2. A 35 year old female know case of rheumatic heart disease presented to OPD with high grade fever of 1 week, rash over palms and soles. On 2D Echo new regurgitate lesion was noted. What is the diagnosis? Describe the diagnostic criteria, investigations and treatment of this condition.

III Short answer questions

10 x 5 = 50M

- 1. Anaphylactic shock
- 2. Liver function tests
- 3. Hyponatremia
- 4. Paracetamol poisoning
- 5. Vitamin D deficiency
- 6. Immune reconstitution inflammatory syndrome
- 7. Complicated malaria
- 8. IgA nephropathy
- 9. Tropical sprue
- 10. Classification of pulmonary artery hypotension

2 x 15= 30 M

SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES, TIRUPATI SRI PADMAVATHI MEDICAL COLLEGE FOR WOMEN 3rd MBBS PART II – PRE FINAL EXAMINATION

Раре	er: General Medicine Paper -2		Dt:
	e: 3 hours Fuctions to the students: All questi	ions are compulsory	Maximum Marks:100
I	Multiple choice questions:		20 x 1= 20M
1.	Lambda-panda sign is typically see a) Sarcoidosis b) Tuberc c) Histoplasmosis d) Leishm	culosis	()
2.		s insipidus is) Vasopressin) Amiodarone	()
3.	Hurthle cells are seen in a) Agranulomatous thyroiditis c) Papillary carcinoma of the thyrc	b) Hashimoto's thyroiditis bid d) Thyrogland cyst	()
4.	-	g) Vital capacity of lung) Risk of pulmonary embolism	()
5.	-	he following except) Acromegaly) Hepatocellular failure	()
6.		e 2 respiratory failure) COPD) ARDS	()
7.		udative pleural effusion) Nephrotic syndrome) Bronchogenic carcinoma	()
8.	Which of the following vitamin is s a) Vit.A b		()
9.		kcept) Varicose veins) Stroke	()
10.		core body temperature except) Malaria) Trench foot	()

11.	Hair on end appearance is seen a) Hydrocephalus c) Chronic malaria	in X-rays skull in b) Thalassemia d) Sickle cell anaemia	()
12.	All of the following are emerge a) Spinal cord compression c) Hypercalcemia	ncy complications of cancer except b) SVC obstruction d) Weight loss	()
13.	Most common skin malignancy a) Basal cell carcinoma c) Actiinic keratosis	is b) Squamous cell carcinoma d) Intra-epidermal carcinoma	()
14.	Which of the following sexually a) Lymphogranuloma vanereun c) Molluscum contagiosum	transmitted infection caused by virus n b) Granuloma inguinale d) Syphilis	()
15.	In prescribing medicines for elde	rly patient, all of the following should be	considered except ()
	a) Poor drug adherence c) Less drug interactions	b) Decreased drug elimination d) Cautious in prescribing lower thresho	
16.	Type of sensation lost on same : a) Pain c) Proprioception	side in Brown Sequard Syndrome is b) Touch d) Temperature	()
17.	Subacute combined degenerati a) Vitamin B1 c) Vitamin B6	ion of spinal cord is caused due to deficie b) Vitamin B5 d) Vitamin B12	ncy of ()
18.	The drug of choice for absence a) Valproate c) Carbamazepine	seizure b) Gabapentin d) Phenytoin	()
19.	All of the following are anxiety of a) Phobic anxiety of a) Phobic anxiety c) Anorexia nervosa	lisorders in Psychiatry except b) Obsessive compulsive disorder d) Panic disorder	()
20.	Which of the following is a sym a) Irritability c) Palpitations	ptom of depressive disorder b) Reduced self-esteem d) Tremor	()

II Long answer questions

- 1. Name anterior pituitary hormones. Discuss clinical features and treatment of Cushing's disease
- A 68 year old woman, who had backache and recurrent chest infections for 6 months, develops renal failure. Her investigations showed Hb:7.3g/dl, Sr.Calcium:12.6mg/dl, Phosphate:2.5 mg/dl. Alkaline phosphatase:100 U/L, Sr.Albumin:2 gm/dl, globulin:7.1 g/dl, Sr.Creatinine:2.6 mg/dl. X-Ray spine showed lytic lesions in lumbar region. Sr.Electrophoresis showed M-spike.
 - a) What is the likely diagnosis?
 - b) What is the diagnostic criteria
 - c) What are the complications of this disease?
 - d) Discuss the treatment

III Short answer questions

10 x 5 = 50M

- 1. Write in brief about medico-legal issue pertaining to organ donation
- 2. Superior vena cava obstruction
- 3. Pulmonary function tests
- 4. Frailty
- 5. Turner's syndrome
- 6. Management of megaloblastic anaemia
- 7. Diagnosis of rheumatoid arthritis
- 8. Narcolepsy
- 9. CSF analysis in meningitis
- 10. Management of acne vulgaris

2 x 15= 30 M

DEPARTMENT of (DVL) DERMATOLOGY VENEREOLOGY AND LEPROSY

TABLE OF CONTENTS

Sl. No.	Contents
1	Goals, Competencies and Objectives
2	Terms and Teaching guidelines
3	Minimum teaching hours
1	Competencies, Specific learning Objectives, Teaching
4	learning and Assessment methods
5	Topics for Integration
6	Topics forSelf-Directed Learning
7	List of Instruments
8	Recommended Books

GOALS

The broad goal of the teaching of Undergraduate students in Dermatology, Venereology and Leprosy is to producegraduates capable of independently diagnosing and clinically evaluating basic skin lesions and further investigatingthem.

The student should be able to develop the clinical skills, professional attitudes and knowledge base for the practice of Dermatology, Venereology & Leprosy, as a part of General Medicine through exposure to general and autoimmune skindisorders.

The student must appreciate the medical management and basic foundations underlying the care of patients with dermatological complaints

COMPETENCIES

The under graduate student must demonstrate:

- Understanding of the principles of diagnosis of diseases of the skin, hair, nail and mucosa
- Ability to recognize, diagnose, order appropriate investigations and treat common diseases of the skin including leprosy in the primary care setting and refer as appropriate
- A syndrome approach to the recognition, diagnosis, prevention, counseling, testing and management of common sexually transmitted diseases including HIV based on national health priorities
- Ability to recognize and treat emergencies including drug reactions and refer as appropriate.

OBJECTIVES Knowledge

At the end of the course of Dermatology the student shall be able to:

- Demonstrate sound knowledge of common diseases, their clinical manifestations, including emergent situations and of investigative procedures to confirm their diagnosis.
- Demonstrate comprehensive knowledge of various modes of therapy used in treatment of cutaneous, sexually transmitted diseases and leprosy
- Describe the mode of action of commonly used drugs, their doses, side effects/toxicity, indications and contra-indications and interactions
- Describe commonly used modes of management including the medical and surgical procedures available for the treatment of various diseases and to offer a comprehensive plan of management for a given disorder

Skills

- The student shall be able to o Interview the patient, elicit relevant and correct information and describe the history in a chronological order
- Conduct clinical examination, elicit and interpret physical findings and diagnose common disorders and emergencies.
- Demonstrate simple, routine investigative and laboratory procedures required for making the bed-side diagnosis, especially the examination of scrapings for fungus, preparation of slit smears and staining for AFB for leprosy patients and for STD cases and take a skin biopsy for diagnostic purposes.
- Manage common diseases and recognizing the need for referral for specialized care, in case of inappropriateness of therapeutic response

Attitude and Communication

- Communication with empathytopatients & patient's attenders.
- Tocounsel&obtaininformedconsentfrompatient&patientsattenders.

Integration

The teaching should be aligned and integrated horizontally and vertically in order to emphasize the biologic basis of diseases of the skin, sexually transmitted diseases and leprosy

TERMS AND TEACHING GUIDELINES

1. LECTURE

A teaching learning method which includes traditional and interactive sessions involving a large group.

2. SMALL GROUP DISCUSSION

An instructional method involving small groups of students in an appropriate learning context.

3. DOAP (Demonstration- Observation - Assistance - Performance)

A practical session that allows the student to observe demonstration, assists the performer, perform in a simulated environment, perform under supervision or perform independently.

4. SELF DIRECTED LEARNING

A process in which individuals take the initiative, with or without the help of others in diagnosing their learning needs, formulating learning goals, identifying human and material sources for learning, choosing and implementing appropriate learning methods.

5. SKILL ASSESSMENT

Is a session that assesses the skill of the student including those in the practical laboratory, skills lab, skills station that uses mannequins/ paper case/simulated patients/real patients as the context demands.

6. CORE

A competency that is necessary in order to complete the requirements of the subject (traditional must know)

7. NON – CORE

A competency that is optional in order to complete the requirements of the subject (traditional nice (good) to know/ desirable to know.

MINIMUM TEACHING HOURS

Table: Distribution of subjects by Professional Phase

Third	General Medicine, General Surgery, Obstetrics	18	III Professional
Professional	&Gynecology, Pediatrics, Orthopedics,	months	(Part II)
MBBS Part II	Dermatology,		
	Psychiatry, Otorhinolaryngology,		
	Ophthalmology,		
	Community Medicine, Forensic Medicine and		
	Toxicology, Respiratory medicine, Radio		
	diagnosis & Radiotherapy, Anesthesiology		
	Clinical subjects /postings		
	Attitude, Ethics & Communication Module		
	(AETCOM)		

Subjects	Lectures	SGL	SDL	Total
General Medicine	95	155	55	260
General Surgery	80	140	40	260
Obstetrics and Gynecology	80	140	40	260
Pediatrics	30	60	30	120
Orthopedics	25	35	25	85
AETCOM	30	0	22	52
Dermatology	15	10	15	40
Psychiatry	15	15	15	45
Otorhinolaryngology	15	25	15	55
Ophthalmology	15	25	15	55
Radio diagnosis and Radiotherapy	8	15	15	38
Anesthesiology	8	15	15	38
Pandemic module	28	-	-	28
Total	444	610	302	1356

Table: Third Professional Part II teaching hours

THIRD PROFESSIONAL Part II PRACTICAL

Subjects	Period of training in weeks			Total weeks
	II MBBS	III MBBS	III MBBS	
		Part I	Part II	
Electives	0	4	0	4
General Medicine	9	4	14	27
General Surgery	7	4	10	21
Obstetrics & Gynaecology	7	4	10	21
Pediatrics	4	4	5	13
Community Medicine	4	4	0	8
Orthopaedics	2	2	4	8
Otorhinolaryngology	0	3	4	7
Ophthalmology	0	3	4	7
Psychiatry	0	2	4	6
Radio-diagnosis	0	0	2	2
Dermatology	2	2	2	6
Dentistry	1	0	0	1
Anesthesiology	0	0	3	3
Total	36	36	62	134

THEORYSYLLABUS: TOPICAND THE COMPETENCIES

Competencies	Topic1-Acne,(Etiopathogenesis &Management)
DR1.1	Enumerate the causative and risk factors of acne
DR1.3	Describe the treatment and preventive measures for various kinds of acne

Competencies	Topic2-Vitiligovulgaris
DR2.2	Describe the treatment of vitiligo

Competencies	Topic3-Papulosquamous disorders
DR3.1	Identify and distinguish psoriatic lesions from other causes
DR3.3	Enumerate the indications for and describe the various modalities of treatment of psoriasis.

Competencies	Topic4-Lichen Planus
DR4.2	Enumerate and describe the treatment modalities for lichen planus

Competencies	Topic5-Scabies
DR5.1	Describe the etiology, microbiology, pathogenesis, natural history, clinical features, presentations and complications of scabies in adults and children
DR5.3	Enumerate and describe the pharmacology. administration and adverse reactions of pharmacy other apis for scabies

Competencies	Topic6-Pediculosis
	Describe the etiology pathogenesis and diagnostic features of pediculosis in
	adults and children

Competencies	Topic 7-Dermatophytosis
DR7.1	Describe the etiology, microbiology, pathogenesis and clinical presentations and diagnostic features of dermatophytosis in adults and children
DR7.3	Describe the pharmacology and action of antifungal (systemic and topical) agents. Enumerate side effects of antifungal therapy

Competencies	Topic8-Viralinfections
DR8.1	Describe the etiology, microbiology, pathogenesis and clinical presentations and diagnostic features of common viral infections of the skin in adults and children
DR8.7	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmaco therapies for common viral illnesses of the skin

Competencies	Topic9-Leprosy
DR9.1	Classify, describe the epidemiology, etiology, microbiology, pathogenesis, clinical presentations and diagnostic features of Leprosy
DR9.4	Enumerate, describe and identify lepra reactions and supportive measures and therapy of lepra reactions
DR9.5	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for various classes of leprosy based on national guidelines
DR9.6	Describe the treatment of Leprosy based on the current guidelines
DR9.7	Enumerate and describe the complications of leprosy and its Management.

Competencies	Topic10- SexuallyTransmittedDiseases
DR10.3	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for syphilis
DR10.4	Describe the prevention of congenital syphilis
DR10.6	Describe the etiology, diagnostic and clinical features of non syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)
DR10.8	Enumerate the indications and describe the pharmacology, indications and adverse reactions of drugs used in the non syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)
DR10.9	Describe the syndromic approach to ulcerative sexually transmitted disease.
DR10.10	Describe the etiology, diagnostic and clinical features and management of gonococcal and non-gonococcalurethritis.
DR10.11	Describe the etiology, diagnostic and clinical features and management of vaginal discharge.

Competencies	Topic 11-HIV
DR11.1	Describe the etiology, pathogenesis and clinical features of the dermatologic manifestations of HIV
DR11.3	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for dermatologic lesions in HIV

Competencies	Topic12-Dermatitis and Eczema
DR12.1	Describe the etiopathogenesis of eczema
DR12.3	Classify and grade eczema
	Enumerate the indications and describe the pharmacology, Indications and adverse reactions of drugs used in the treatment of eczema

Competencies	Topic14-UrticariaAngioedema
DR14.1	Describe the etiology, pathogenesis and clinical precipitating features and classification of Urticaria and angioedema.
DR14.5	Enumerate the indications and describe the pharmacology indications and adverse reaction of drugs used in the urticaria and angioedema

Competencies	Topic 15-Pyoderma
	Enumerate the indications and describe the pharmacology, indications and
	adverse reactions of topical and systemic drugs used in treatment of pyoderma

Competencies	Topic 17-NutritionalDeficiencies and Skin
DR17.1	Enumerate and identify the cutaneous findings in vitamin A deficiency
DR17.2	Enumerate and describe the various skin changes in Vitamin Bcomplex deficiency
DR17.3	Enumerate and describe the various changes in Vitamin C deficiency K
DR17.4	Enumerate and describe the various changes in Zinc deficiency

Competencies	Topic18- Systemicdiseasesandtheskin
DR18.1	Enumerate the cutaneous features of Type2 diabetes
DR18.2	Enumerate the cutaneous features of hypo/hyper-thyroidism

PRACTICAL SYLLABUS: TOPIC AND THE COMPETENCIES

Competency	Торіс
DR1.2	Identify and grade the various common types of acne
DR2.1	Identify and differentiate vitiligo from other causes of hypo pigmented lesions
DR3.2	Demonstrate the grattage test
DR4.1	Identify and distinguish lichen planus lesions from other causes
DR5.2	Identify and differentiate scabies from other lesions in adults and children
DR6.2	Identify and differentiate pediculosis from other skin lesions in adults and children
DR7.2	Identify Candida species in fungal scrapings and KOH mount
DR8.2	Identify and distinguish herpes simplex and herpes labialis from other skin lesions
DR8.3	Identify and distinguish herpeszoster and varicella from other skin lesions
DR8.4	Identify and distinguish viral warts from other skin lesions
DR8.5	Identify and distinguish molluscum contagiosum from other skin lesions
DR8.6	Enumerate the indications, describe the procedure and performa Tzanck smear
DR9.2	Demonstrate (and classify based on) the clinical features of leprosy including an appropriate neurologic examination
DR9.3	Enumerate the indications and observe the performance of a slit skin smear in patients with leprosy
DR10.1	Identify and classify syphilis based on the presentation and clinical manifestations
DR10.2	Identify spirochete in a dark ground microscopy
DR10.7	Identify and differentiate based on the clinical features on-syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)
DR11.2	Identify and distinguish the dermatologic manifestations of HIV, its complications, opportunistic infections and adverse reactions of Therapy.
DR12.2	Identify eczema and differentiate it from lichenification and changes of aging

DR12.5	Define erythroderma. Enumerate and identify the causes of erythroderma. Discuss the treatment
DR12.6	Identify and distinguish exfoliative dermatitis from other skin lesions
DR12.7	Identify and distinguish fixed drug eruptions and Steven Johnson syndrome from other skin lesions
DR13.1	Distinguish bulla from vesicles
DR13.2	Demonstrate the Tzanck test, Nikolsky sign and bulla spread sign
DR13.3	Calculate The body surface area involvement of vesiculobullous lesions
DR14.2	Identify and distinguish urticarial from other skin lesions
DR14.3	Demonstrate dermographism
DR14.4	Identify and distinguish angioedema from other skin lesions
DR15.1	Identify and distinguish folliculitis impetigo and carbuncle from other skin lesions
DR15.2	Identify staphylococcus on agram stain
DR15.4	Enumerate the indications for surgical referral
DR16.1	Identify and distinguish skin lesions of SLE
DR16.2	Identify and distinguish Raynaud's phenomenon
DR17.1	Enumerate and identify the cutaneous findings in vitamin A deficiency

THEORY SYLLABUS

Sl.No	Topic	Competency	No of Teaching	Teaching- Learning
		No	Hours	method
1	Acne	DR1.1	1 hour	Lecture/ small group
		DR1.3		discussion
2.	Psoriasis	DR3.3	1 hour	Lecture/ small group
		21010	1 110 001	discussion
3.	Lichen Planus	DR4.2	1 hour	Lecture/ small group
	Lienen i lands	DICT.2	1 nour	discussion
4.	Vitiligo	DR2.2	1 hour	Lecture/ small group
	v itiligo	DR2.2	1 11001	discussion
5.	Scabies	DR5.1	1 hour	Lecture/ small group
	Scables	DR5.3	1 HOUI	discussion
6	Pediculosis	DR5.5	1 hour	
6.	Pediculosis	DK0.1	1 HOUI	Lecture/ small group discussion
7.	Lonnoor	DD0 1	4 hours	
1.	Leprosy	DR9.1	4 nours	Lecture/ small group
		DR9.4		discussion
		DR9.5		
		DR9.6		
	~ ~ ~ ~ ~ ~	DR9.7		
8.	Sexually Transmitted	DR10.3	2 hours	Lecture/ small group
	Diseases	DR10.4		discussion
		DR10.5		
		DR10.6		
		DR10.7		
		DR10.8		
		DR10.9		
		DR10.10		
		DR10.11		
9.	Urticarial/Angioedema	DR14.1	1 hour	Lecture/ small group
		DR14.5		discussion
10	Eczema/Dermatitis	DR12.1	2 hours	Lecture/ small group
		DR12.3		discussion
		DR12.4		
11.	Viral Infections	DR8.1	2 hours	Lecture/ small group
		DR8.7		discussion
12.	Fungal Infections	DR7.1	1 hour	Lecture/ small group
12.		DR7.3	1 11001	discussion
13.	HIV	DR11.1	2 hours	Lecture/ small group
13.		DR11.3	2 110015	discussion
14.	Nutritional Deficiencies	DR17.1	2 hours	Lecture/ small group
17.	and Skin	DR17.2		discussion
1.5		DR17.2 DR17.3		uiscussion
	Contourie Diagonal	DR17.4	2 1	I
15.	Systemic Diseases and	DR18.1	2 hours	Lecture/ small group
16	Skin	DR18.2	11	discussion
16.	Pyodermas	DR15.3	1hour	Lecture/ small group
				discussion
	Total		25 hours	

PRACTICAL SYLLABUS

S.NO.	Торіс	Teaching Method	
1.	Urticaria and Angioedema – Diagnosis and	Bed side clinics	
	Demonstration of Dermographism, Differential		
	Diagnosis		
2.	Dermatophytic Infections – Diagnosis, Differential	Bed side clinics/ DOAP	
	Diagnosis, KOH mount in fungal infections		
3.	Acne – Diagnosis, grading and differential diagnosis	Bed side clinics	
4.	Psoriasis – Diagnosis, grattage test	Bed side clinics/DOAP	
5.	Lichen planus – Diagnosis, and differential diagnosis	Bed side clinics	
6.	Scabies – Identification and differential diagnosis	Bed side clinics	
7.	Sunday	-	
8.	Viral infections – diagnosis and (herpes simplex)	Bed side clinics	
	Differential diagnosis		
9.	Tzanck smear, Signs in Vesiculobullous disorders	DOAP	
10.	Leprosy – clinical examination and peripheral nerve	Bed side clinics/DOAP	
	palpation		
11.	Slit skin smear	DOAP	
12.	Genital ulcer – diagnosis and differential diagnosis	Bed side clinics	
13.	Formative Assessment	-	
14.	Sunday	-	

COMPETENCIES, SPECIFIC LEARNING OBJECTIVES, TEACHING LEARNING AND ASSESSMENT METHODS

Number	COMPETENCY The student should be able to	Domain K/S/A /C	Core (Y/N)	Specific learning objectives (SLO)	Teaching- Learning Methods	Assessment Method
					(TLM)	

Topic: A				1	competencies:(03)	1	
DR1.1	Enumerate the causative and risk factors of acne	K	K	Y	DR1.1.1Define acne and enumerate various precipitating risk factors of acne DR1.1.2 Enumerate five syndromes associated with acne	Small group discussion	Written/ Viva voce
DR1.2	Identify and grade the various common types of acne	S	SH	Y	DR1.2.1 Identify various lesions seen in acne vulgaris DR1.2.2 Assess the clinical severity of acne by grading DR1.2.3 Enumerate variants of acne.	Bedside clinic	Skill assessment
DR1.3	Describe the treatment and preventive measures for various kinds of acne	K	K	Y	DR1.3.1 Enumerate topical agents used in acne vulgaris DR1.3.2 Enumerate systemic agents used in the treatment of acne vulgaris DR1.3.3 Describe the preventive measures in acne	Small group discussion	Written/ Viva voce
Topic: V	itiligo		N	umber of	f competencies: (02)		
DR2.1	Identify and differentiate vitiligo from other causes of hypo pigmented lesions	S	S	Y	DR2.1.1Describe the morphology of vitiligo DR2.1.2 Enumerate differential diagnosis for hypo pigmented lesions and distinguish them from vitiligo	Bedside clinic/DOAP	Skill assessment
DR2.2	Describe the treatment of vitiligo	K	K	Y	DR2.2.1Enumerate various topicals and systemic agents used in the treatment of vitiligo DR2.2.2 Enumerate	Small group discussion	Written/ Viva voce

					indications for surgical		
<u> </u>				6	management of vitiligo		
Торіс: Ра	apulosquamous disord	ers	Numb	per of co	mpetencies:(03)		
DR3.1	Identify and distinguish psoriatic lesions from other causes	К	SH	Y	DR3.1.1 Describe the clinical features and presentation of psoriasis DR3.1.2 Enumerate the differential diagnosis and distinguish from psoriasis	Bedside clinic	Skill assessment/ Viva voce
DR3.2	Demonstrate the grattage test	S	SH	Y	DR3.2.1Define Grattage test and Auspitz sign DR3.2.2Demonstrate Grattage test and Auspitz sign	Bedside clinic/DOAP	Skill assessment
DR3.3	Enumerate the indications for and describe the various modalities of treatment of psoriasis including topical, systemic and phototherapy	К	КН	Y	DR3.3.1Assess the severity of psoriasis by PASI DR3.3.2Enumerate and describe the advantages and disadvantages of topical treatments of psoriasis DR3.3.3enumerate the indications of systemic treatment and various systemic drugs useful in psoriasis DR3.3.4discuss the indications, procedure, advantages and complications of phototherapy	Lecture	Written/ Viva voce
Topic: Li	ichen Planus		Nu	mber of	competencies:(02)		
DR4.1	Identify and distinguish lichen	S	SH	Y	DR4.1.1Define lichen planus and describe morphology and its	Bedside clinic	Skill assessment

DR4.1	Identify and distinguish lichen planus lesions from other causes	S	SH	Y	DR4.1.1Define lichen planus and describe morphology and its variants DR4.1.2Enumerate the differential diagnosis and distinguish lichen planus from other	Bedside clinic	Skill assessment
					lesions		
DR4.2	Enumerate and	Κ	KH	Y	DR4.2.1 Enumerate the	Small group	Written/

Topic: Sc DR5.1	describe the treatment modalities for lichen planus cabies Describe the	K	Nui	mber of o	treatment modalities for lichen planus DR4.2.2Describe the management and complications of limited and wide spread lichen planus competencies:(03) DR5.1.1Describe the	discussion	Viva voce
	etiology, microbiology, pathogenesis, natural history, clinical features, presentations and complications of scabies in adults and children				epidemiology, etiopathogenesis microbiology of scabies DR5.1.2Describe the clinical presentation of scabies in children and how it differs in adults DR5.1.3Enumerate the complications in untreated scabies		Viva voce
DR5.2	Identify and differentiate scabies from other lesions in adults and children	S	SH	Y	DR5.2.1 Identify burrow, mite and specific sites of involvement in scabies DR5.2.2Enumerate the differential diagnosis for scabies in children and adults DR5.2.3 Differentiate scabies from other conditions	Bedside clinic	Skill assessment
DR5.3	Enumerate and describe the pharmacology, administration and adverse reaction of pharmacotherapies for scabies	К	КН	Y	DR5.3.1Enumerate various topicals and systemic treatments of scabies DR5.3.2Describe the pharmacology, administration and adverse reaction of pharmacotherapies for scabies DR5.3.3Describe the management of different variants of scabies DR5.3.4 Discuss the general and additional measures in the	Lecture	Written/ Viva voce

					management of scabies		
Topic: Pe	diculosis		N	lumber o	f competencies : (02)		
DR6.1	Describe the etiology, pathogenesis and diagnostic features of pediculosis in adults and children	K	КН	Y	DR6.1.1Describe the epidemiology and etiopathogenesis of pediculosis DR6.1.2Discuss the clinical presentation of pediculosis in children and adults	Lecture	Written/ Viva voce
DR6.2	Identify and differentiate pediculosis from other skin lesions in adults and children	S	SH	Y	DR6.2.1Enumerate the differential diagnosis of pediculosis DR6.2.2Distinguish pediculosis from other lesions in children and adults	Bedside clinic	Skill assessment
Topic: Fu	Ingal Infections		<u> </u>]	Number	of competencies: (03)		
DR7.1	Describe the etiology, microbiology, pathogenesis and clinical presentations and diagnostic features of dermatophytes in adults and children	K	КН	Y	DR7.1.1Describe the etiology, microbiology and pathogenesis of dermatophytes DR7.1.2Discuss the clinical presentations of ringworm syndromes	Lecture	Written/ Viva voce
DR7.2	Identify Candida species in fungal scrapings and KOH mount	S	SH	Y	DR7.2.1Enumerate the steps in performing KOH mount DR7.2.2Prepare a KOH mount from skin scrapings DR7.2.3Identify Candida species in KOH mount DR7.2.4Identify dermatophytes in KOH mount DR7.2.5Identify Malassezia in KOH mount	DOAP session	Skill assessment
DR7.3	Describe the pharmacology and	К	КН	Y	Dr7.3.1Classify the topical and systemic	Lecture	Written/ Viva voce

						ſ	1
	action of				antifungals		
	antifungal				DR7.3.2Describe the		
	(systemic and				pharmacology and		
	topical) agents.				mechanism of action of		
	Enumerate side				antifungals		
	effects of				DR7.3.3Enumerate the		
	antifungal therapy				side effects of		
					antifungal therapy		
Topic: Vii	ral infections Number	of compe	tencies (07)				
DR8.1	Describe the	K	KH	Y	DR8.1.1Enumerate	Lecture	Written/
	etiology,				common cutaneous		Viva voce
	microbiology,				viral infections in		
	pathogenesis and				children		
	clinical				DR8.1.2Enumerate		
	presentations and				common cutaneous		
	diagnostic features				viral infections in		
	of common viral				adults		
	infections of				DR8.1.3Discuss the		
	the skin in adults				etiopathogenesis,		
	and children				clinical presentations		
					and diagnosis of		
					various viral infections		
					of skin in children and		
					adults		
DR8.2	Identify and	S	SH	Y	DR8.2.1Enumerate the	DOAP	Skill
DIGO	distinguish herpes	5	511	-	differential diagnosis of	session	assessment
	simplex and				oral ulcers	5.55.61	
	herpes labialis				DR8.2.2Identify herpes		
	from				labialis from other skin		
	other skin lesions				lesions		
DR8.3	Identify and	S	SH	Y	DR8.3.1 Describe the	DOAP	Skill
21000	distinguish herpes	~	~	-	clinical manifestations	session	assessment
	zoster and				of varicella and herpes	5.55.61	
	varicella from				zoster		
	other skin				DR8.3.2Enumerate		
	lesions				differential diagnosis		
	10510115				for varicella and herpes		
					zoster		
					DR8.3.3Identify and		
					differentiate varicella		
					and herpes zoster		
DR8.4	Identify and	S	SH	Y	DR8.4.1Discuss the	DOAP	Skill
DIX0.4		3	511	1		session	
	distinguish viral warts from other				clinical presentation of	50551011	assessment
					cutaneous warts		
	skin lesions				DR8.4.2Identify and		
					distinguish cutaneous		
					warts from other skin		

					lesions		
DR8.5	Identify and distinguish molluscum contagiosum from other skin lesions	S	SH	Y	DR8.5.1Describe the clinical presentation of molluscum contagiosum DR8.5.2Identify molluscum contagiosum and differentiate it from other cutaneous lesions	DOAP session	Skill assessment
DR8.6	Enumerate the indications, describe the procedure and perform a Tzanck smear	S	SH	Y	DR8.6.1Define Tzanck smear DR8.6.2 Enumerate the indications of Tzanck smear DR8.6.3 Describe the steps to obtain a Tzanck smear DR8.6.4 Demonstrate the steps to obtain a Tzanck smear and identify multinucleate giant cells	DOAP session	Skill assessment
DR8.7	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for common viral illnesses of the skin	K	КН	Y	DR8.7.1 Enumerate the indications of antivirals in common cutaneous viral infections DR8.7.2 Describe the pharmacology, administration and adverse reactions of antivirals in the treatment of cutaneous viral infections	Lecture	Written/ Viva voce
Topic: Le	eprosy			Number	of competencies: (07)		
DR9.1	Classify describe the epidemiology etiology, microbiology, pathogenesis, clinical presentations and diagnostic features of Leprosy	K	КН	Y	DR9.1.1Define leprosy DR9.1.2Describe the epidemiology, etiopathogenesis of leprosy DR9.1.3 Enumerate various classifications of leprosy DR9.1.3Discuss in detail the clinical manifestations and diagnosis of leprosy	Lecture, Small group discussion	Written/ Viva voce

DR9.2	Demonstrate (and classify based on) the clinical features of leprosy including an appropriate neurologic examination	S	SH	Y	DR9.2.1Demonstrate sensory examination in the different clinical variants of leprosy DR9.2.2Perform peripheral nerve examination in a leprosy case	Bedside clinic	Bedside clinic/skill assessment
DR9.3	Enumerate the indications and observe the performance of a slit skin smear in patients with leprosy	S	КН	Y	DR9.3.1Enumerate the indications of slit skin smear DR9.3.2Demonstrate the steps in obtaining a slit skin smear DR9.3.3Perform a slit skin smear and identify M.leprae in the smear	DOAP session	Written/ Viva voce
DR9.4	Enumerate, describe and identify lepra reactions and supportive measures and therapy of lepra reactions	K	КН	Y	DR9.4.1Enumerate the types of lepra reactions DR9.4.2 Describe the clinical presentation and diagnosis of lepra reactions DR9.4.3 Discuss the management of lepra reactions	Small group discussion	Written/ Viva voce
DR9.5	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for various classes of leprosy based on national guidelines	K	КН	Y	DR9.5.1 Enumerate the drugs used in the Treatment of leprosy DR9.5.2 Describe the pharmacology, administration and adverse reactions of anti-leprosy drugs based on national guidelines	Lecture	Written/ Viva voce
DR9.6	Describe the treatment of Leprosy based on the WHO guidelines	K	КН	Y	DR9.6.1 Define the drugs in paucibacillary and multibacillary leprosy based on WHO guidelines DR9.6.2 Describe in detail the indications, contraindications and adverse effects of	Lecture	Written/ Viva voce

					antileprosy drugs		
DR9.7	Enumerate and describe the complications of leprosy and its management, including understanding disability and stigma.	К	KH	Y	DR9.7.1 Enumerate various complications of leprosy DR9.7.2 Describe the management of complications of leprosy DR9.7.3 Describe the prevention and management of disability and stigma	Lecture	Written/ Viva voce
Topic: Se	xually Transmitted D	iseases	1	Number (of competencies: (11)		
DR10.1	Identify and classify syphilis based on the presentation and clinical manifestations	S	SH	Y	DR10.1.1 Define syphilis DR10.1.2Describe the clinical manifestations of syphilis DR10.1.3Classify syphilis based on clinical presentation	Bedside clinic	Skill assessment
DR10.2	Identify spirochete in a dark ground microscopy	S	SH	Y	DR10.2.1 Identify spirochete in a dark ground microscope	DOAP session	Skill assessment
DR10.3	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for syphilis	К	KH	Y	Dr10.3.1Enumerate the drugs in the management of syphilis DR10.3.2Describe the pharmacology, administration and adverse reactions of drugs in syphilis	Lecture	Written/ Viva voce
DR10.4	Describe the prevention of congenital syphilis	К	КН	Y	DR10.4.1 Define congenital syphilis DR10.4.2Describe the clinical manifestations of congenital syphilis DR10.4.3Describe the preventive measures of congenital syphilis	Lecture	Written/ Viva voce
DR10.5	Counsel in a non- judgemental and empathetic manner patients on prevention of sexually	С	SH	Y	DR10.5.1 Counsel the patient in a non- judgmental and empathetic manner on prevention of sexually transmitted disease	DOAP session	Skill assessment

	transmitted disease						
DR10.6	Describe the etiology, diagnostic and clinical features of nonsyphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)	К	КН	Y	DR10.6.1 Describe the etiology, diagnostic and clinical features of chancroid DR10.6.2 Describe the etiology, diagnostic and clinical features of Donovanosis DR10.6.3 Describe the etiology, clinical and diagnostic features of LGV	Lecture	Written/ Viva voce
DR10.7	Identify and differentiate based on the clinical features non- syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)	S	SH	Y	DR10.7.1 Enumerate the causes of genital ulcer DR10.7.2 Identify and differentiate the causes of genital ulcer based on clinical features	Bedside clinic	Skill assessment
DR10.8	Enumerate the indications and describe the pharmacology, indications and adverse reactions of drugs used in the nonsyphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)	K	KH	Y	DR10.8.1 Enumerate the drugs used in management of non- syphilitic sexually transmitted diseases DR10.8.2 Describe the indications and adverse reactions of drugs used in the management of non-syphilitic sexually transmitted diseases	Lecture	Written/ Viva voce
DR10.9	Describe the syndromic approach to ulcerative sexually transmitted disease	КК	КН	Y	DR10.9.1Define syndromic approach to genital ulcer disease DR10.9.2 Discuss the various kits used in syndromic management of sexually transmitted diseases	Lecture	Written/ Viva voce

DR10.10	Describe the etiology, diagnostic and clinical features and management of gonococcal and non-gonococcal urethritis	K	КН	Y	DR10.10.1 Describe the etiopathogenesis of gonococcal urethritis DR10.10.2 Describe the clinical presentation and management of gonococcal urethritis DR10.10.3Enumerate the cause for non- gonococcal urethritis DR10.10.4 Describe the clinical features and management of non- gonococcal urethritis	Lecture	Written/ Viva voce
DR10.11 Topic: HI	Describe the etiology, diagnostic and clinical features and management of vaginal discharge	K	КН	Y	DR10.11.1 Enumerate the causes of vaginal discharge DR10.11.2 Describe the etiopathogenesis, clinical features and management of vaginal discharge	Lecture	Written/ Viva voce
DR11.1	Describe the etiology, pathogenesis and clinical features of the dermatologic manifestations of HIV and its complications including opportunistic infections	K	КН	Y	DR11.1.1Enumerate dermatological manifestations of HIV DR11.1.2Describe the etiology and pathogenesis of dermatological manifestations of HIV DR11.1.3Discuss the cutaneous manifestations of HIV DR11.1.4Discuss the complications and opportunistic infections that occur in HIV	Small group discussion	Written/ Viva voce
DR11.2	Identify and distinguish the dermatologic manifestations of HIV, its complications, opportunistic infections and adverse reactions	S	SH	Y	DR11.2.1 Identify dermatological manifestations of HIV DR11.2.2Discuss various complications and opportunistic infections in HIV DR11.2.3 Enumerate Cutaneous side effects of non-ARV	Bedside clinic	Skill assessment

DR11.3	Enumerate the	K	КН	Y	drugs in patients with HIV DR11.2.4 Define IRIS and discuss Dermatological manifestations of IRIS DR11.3.1Enumerate	Lecture	Written/
Territo De	indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for dermatologic lesions in HIV			Newba	the indications and treatment options for dermatologic lesions in HIV DR11.3.2Describe the pharmacology, administration and adverse reactions of pharmacotherapies for skin lesions in HIV		Viva voce
1	rmatitis and Eczema	[r of competencies: (07)	1	
DR12.1	Describe the etiopathogenesis of eczema	K	КН	Y	DR12.1.1 Define eczema DR12.1.2Describe the etiopathogenesis of eczemas	Lecture	Written/ Viva voce
DR12.2	Identify eczema and differentiate it from lichenification and changes of aging	S	SH	Y	DR12.2.1Identification of various types of eczemas DR12.2.2Differentiate eczema, lichenification and erythroderma	Bedside clinic	Skill assessment
DR12.3	Classify and grade eczema	K	КН	Y	DR12.3.1Discuss the classification of eczemas DR12.3.2Assess the severity of eczema by grading	Small group discussion	Written/ Viva voce
DR12.4	Enumerate the indications and describe the pharmacology, indications and adverse reactions of drugs used in the treatment of eczema	K	КН	Y	DR12.4.1Enumerate the drugs used in the treatment of Eczemas DR12.4.2 Describe the pharmacology, indications, contraindications and adverse reactions of drugs used in management of Eczemas	Lecture	Written/ Viva voce
DR12.5	Define	S	KH	Y	DR12.5.1 Define	Bedside	Skill

	erythroderma. Enumerate and identify the causes of erythroderma.				erythroderma DR12.5.2Enumerate the causes of erythroderma and	clinic	assessment
	Discuss the treatment				distinguish the causes of erythroderma DR12.5.3Discuss the management of erythrodermas		
DR12.6	Identify and distinguish exfoliative dermatitis from other skin lesions	S	SH	Y	DR12.6.1 Define exfoliative dermatitis DR12.6.2Distinguish exfoliative dermatitis from other skin lesions	Bedside clinic	Skill assessment
DR12.7	Identify and distinguish fixed drug eruptions and Steven Johnson syndrome from other skin lesions	S	SH	Y	DR12.7.1 Define and identify fixed drug eruption DR12.7.2 Define and identify Steven Johnson syndrome DR12.7.3 Enumerate the drugs associated with Fixed drug eruptions and Steven Johnson syndrome DR12.7.4Differentiate fixed drug eruption from other skin lesions DR12.7.5Differentiate Steven Johnson syndrome from other lesions	Bedside clinic	Skill assessment
Topic: Ve	siculo bullous Lesion	IS	I	Numb	er of competencies:(03)	1	<u> </u>
DR13.1	Distinguish bulla from vesicles	S	SH	Y	DR13.1.1 Define vesicle and bulla DR13.1.2 Distinguish bulla from a vesicle	Bedside clinic	Skill assessment
DR13.2	Demonstrate the Tzanck test, nikolsky sign and bulla spread sign	S	SH	Y	DR13.2.1 Enumerate and demonstrate the steps of Tzanck smear DR13.2.2Identify acantholytic cells in a Tzanck smear DR13.2.3Define Nikolsky sign and enumerate the conditions in which it is positive	Bedside clinic	Skill assessment

					DR13.2.4Define Bulla spread sign DR13.2.5 Demonstrate Nikolsky sign and bulla spread sign		
DR13.3	Calculate the body surface area of involvement of vesiculobullous lesions	S	SH	Y	DR13.3.1 Enumerate the scoring systems used in assessing the severity of pemphigus DR13.3.2 Calculate the body surface area of involvement in vesiculobullous disease	Bedside clinic	Skill assessment
Topic: Ur	ticaria Angioedema			Numbe	er of competencies: (05)		
DR14.1	Describe the etiology, pathogenesis and clinical precipitating features and classification of Urticaria and angioedema	K	КН	Y	DR14.1.1 Define urticaria and angioedema DR14.1.2 Describe the etiopathogenesis, clinical features of urticaria and angioedema DR14.1.3 Classify urticaria and angioedema	Lecture	Written/ Viva voce
DR14.2	Identify and distinguish urticaria from other skin lesions	S	SH	Y	DR14.2.1 Enumerate the differential diagnosis of urticaria DR14.2.2 Identify and distinguish urticaria from other skin lesions	Bedside clinic	Skill assessment
DR14.3	Demonstrate dermographism	S	SH	Y	DR14.3.1 Define dermographism DR14.3.2 Demonstrate dermographism	Bedside clinic	Skill assessment
DR14.4	Identify and distinguish angioedema from other skin lesions	S	SH	Y	DR14.4.1 Identify angioedema DR14.4.2 Differentiate angioedema from other skin lesions	Bedside clinic	Skill assessment
DR14.5	Enumerate the indications and describe the pharmacology indications and adverse reactionsof drugs	К	KH	Y	DR14.5.1 Enumerate the drugs used in management of urticaria and angioedema DR14.5.2 Describe the indications,	Lecture	Written/ Viva voce

Topic: Py	used in the urticaria and angioedema roderma			Number	contraindications and adverse reactions in the management of urticaria and angioedema of competencies: (04)		
DR15.1	Identify and distinguish folliculitis impetigo and carbuncle from other skin lesions	S	SH	Y	DR15.1.1 Enumerate various bacterial infections of skin DR15.1.2 Describe the clinical presentations of cutaneous bacterial infections DR15.1.3 Identify and distinguish folliculitis, impetigo and carbuncle from other skin lesions	Bedside clinic	Skill assessment
DR15.2	Identify staphylococcus on a gram stain	S	SH	Y	DR15.2.1 Describe and perform a gram stain DR15.2.2 Identify staphylococcus on a gram stain	Bedside clinic	Skill assessment
DR15.3	Enumerate the indications and describe the pharmacology, indications and adverse reactions of topical and systemic drugs used in treatment of pyoderma	K	КН	Y	DR15.3.1 Enumerate various topical and systemic drugs used in treatment of pyodermas DR15.3.2 Describe the indications, contraindications and adverse effects of topical and systemic agents in pyodermas	Lecture	Written/ Viva voce
DR15.4	Enumerate the indications for surgical referral	S	КН	Y	DR15.4.1 Enumerate the indications for surgical referral of pyodermas	DOAP session	Written/ Viva voce
Topic: Co	ollagen Vascular disea	ise	Nu	mber of	competencies: (02)		
DR16.1	Identify and distinguish skin lesions of SLE	S	SH	Y	DR16.1.1Define and identify discoid lupus erythematosus, subacute cutaneous lupus erythematosus and acute cutaneous lupus erythematosus DR16.1.2Enumerate the differential	Bedside clinic	Skill assessment

DR16.2	Identify and distinguish Raynaud's phenomenon	S	SH	Y	diagnosis and distinguish skin lesions of SLE DR16.2.1Define Raynaud's phenomenon DR16.2.2Describe the clinical findings of Raynaud's phenomenon DR16.2.3Distinguish Raynaud's	Bedside clinic	Skill assessment
					phenomenon based on underlying cause		
Topic: Nu	tritional Deficiencies	and Skin	N	umber of	f competencies: (04)		
DR17.1	Enumerate and identify the cutaneous findings in vitamin A deficiency	K/S	SH	Y	DR17.1.1Describe the epidemiology and etiopathogenesis of vitamin A deficiency DR17.1.2 Enumerate and identify the cutaneous findings in vitamin A deficiency	Lecture	Written/ Viva voce
DR17.2	Enumerate and describe the various skin changes in Vitamin B complex deficiency	K	КН	Y	DR17.2.1Describe the etiopathogenesis and cutaneous changes of vitamin B1 deficiency DR17.2.2Describe the etiopathogenesis and cutaneous changes of vitamin B3 deficiency DR17.2.3 Describe the etiopathogenesis and cutaneous changes inpyridoxine,riboflavin, folate and vitamin B12 deficiencies	Lecture	Written/ Viva voce
DR17.3	Enumerate and describe the various changes in Vitamin C deficiency	К	КН	Y	DR17.3.1 Discuss the epidemiology and etiopathogenesis of vitamin C deficiency DR17.3.2 Describe the cutaneous changes in vitamin C deficiency	Lecture	Written/ Viva voce
DR17.4	Enumerate and describe the various changes in Zinc deficiency	К	КН	Y	DR17.4.1Discuss the etiopathogenesis of Zinc deficiency DR17.4.2Enumerate	Lecture	Written/ Viva voce

Topic: Sy	stemic diseases and th	he skin	N	umber o	and describe the cutaneous changes in Zinc deficiency f competencies:(02)		
DR18.1	Enumerate the cutaneous features of Type 2 diabetes	К	К	Y	DR18.1.1Enumerate the conditions when to suspect hormonal basis for a skin disease DR18.1.2Enumerate the cutaneous features of Type 2 diabetes	Small group discussion	Written/ Viva voce
DR18.2	Enumerate the cutaneous features of hypo/hyper- thyroidism	K	K	Y	DR18.2.1Enumerate the cutaneous features of hypothyroidism DR18.2.2 Enumerate the cutaneous features of hyperthyroidism	Small group discussion	Written/ Viva voce

INTEGR	ATION			Hun	nan Anatomy		
AN4.2	Describe structure & function of skin with its appendages	K	KH	Y		Lecture	Written/ Viva voce
AN4.4	Describe modifications of deep fascia with its functions	K	КН	Y		Lecture	Written/ Viva voce
AN4.5	Explain principles of skin incisions	К	КН	Ν		Lecture	Written
	·		-	Patho	ology		
PA34.1	Describe the risk factors, pathogenesis, pathology and natural history of squamous cell carcinoma of the skin	К	KH	Y		Lecture	Written/ Viva voce
PA34.2	Describe the risk factors, pathogenesis, pathology and natural history of basal cell carcinoma of the skin	К	КН	Y		Lecture	Written/ Viva voce

PA34.3	Describe the distinguishing features between a nevus and melanoma. Describe the etiology, pathogenesis, risk factors, morphology, clinical features and metastases of melanoma	К	КН	N		Lecture	Written/ Viva voce
PA34.4	Identify,	S	SH	Ν		DOAP	Skill
	distinguish and describe common					session	Assessment
	tumors of the skin						
				Microb	iology		
MI4.3	Describe the etio- pathogenesis of Skin and soft tissue infections and discuss the clinical course, and the laboratory diagnosis.	К	КН	Y		Lecture	Written/ Viva voce
MI7.2	Describe the etio- pathogenesis and discuss the laboratory diagnosis of sexually transmitted infections. Recommend preventive measures, wherever relevant.	К	КН	Y		Lecture	Written/ Viva voce
				Pharma	cology	•	·
PH1.46	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of antileprotic drugs	К	КН	Y		Lecture	Written/ Viva voce

PH1.57	Describe drugs used in skin disorders	K	КН	Y		Lecture	Written/ Viva voce	
	Pediatrics							
PE31.4	Identify Atopic dermatitis and manage	S	SH	Y		Bedside clinics	Skill Assessment	

TOPICS FOR SELF-DIRECTED LEARNING

Sl.no.	Competency	Competency
	no.	
1	DR3.3	Enumerate the indications for and describe the various modalities of treatment of psoriasis including topical, systemic and phototherapy
2	DR8.1	Describe the etiology, microbiology, pathogenesis and clinical presentations and diagnostic features of common viral infections of the skin in adults and children
3	DR9.7	Enumerate and describe the complications of leprosy and its Management including understanding disability and stigma.
4	DR13.3	Calculate the body surface area of involvement of vesiculobullous lesions
5	DR15.3	Enumerate the indications and describe the pharmacology, indications and adverse reactions of topical and systemic drugs used in treatment of pyoderma
6	DR1.2	Identify various lesions seen in acne vulgaris Assess the clinical severity of acne by grading
7	DR12.7	Identify and distinguish fixed drug eruptions and Steven Johnson syndrome from other skin lesions
8	DR13.3.1	Enumerate the scoring systems used in assessing the severity of pemphigus
9	DR16.2	Identify and distinguish Raynaud's phenomenon
10	DR17.2.3	Describe the etiopathogenesis and cutaneous changes in pyridoxine, riboflavin, folate and vitamin B12 deficiencies
11	DR17.4	Discuss the etiopathogenesis of Zinc deficiency Enumerate and describe the cutaneous changes in Zinc deficiency
12	AN4.2	Describe structure & function of skin with its appendages
13	M17.2	Describe the etio-pathogenesis and discuss the laboratory diagnosis of sexually transmitted infections. Recommend preventive measures, wherever relevant.
14	PH1.46	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of antileprotic drugs
15	PH1.57	Describe drugs used in skin disorders

LIST OF INSTRUMENTS

Sl no.	Instrument
1	Light microscope
2	Wood's lamp
3	Stains for gram, giemsa, KOH, slit skin smear
4	Skin biopsy punches
5	Electrosurgical instrument

RECOMMENDED BOOKS:

S.No	Name of Book	Author(s)	Edition	Publisher
1	Roxburg Text Book of Dermatology	Ronald Marks,Richar dMotley	18 th Edition	Caroline Makpeace,Ja ypee
2	IADVL Concise Textbook Of Dermatology	VishalakshiVi swanath	4 th Edition	Jaypee
3	Andrews' Diseases of the Skin, International Edition: Clinical Dermatology	William James	12 th Edition	Elsevier
4	Thappa Textbook of Dermatology	Devinder MohanThappa	4 th Edition	Elsevier
5	Illustrated synopsis of dermatology and sexually transmitted diseases	Neena Khanna	6 th Edition	Elsevier

Department of PSYCHIATRY

TABLE OF CONTENTS

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1	Goals, Competencies and Objectives
2	Terms and Teaching guidelines
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4	Competencies, Specific learning Objectives, Teaching-learning
	and Assessment methods
5	Topics for Integration
6	Topics for Self-Directed Learning
7	List of Instruments
8	Recommended Books

GOALS

The overall purpose of training undergraduate students in psychiatry is to develop graduates competent in independently identifying and clinically evaluating common psychiatric diseases. Through exposure to general psychiatry, child psychiatry, geriatric psychiatry, and substance use disorders, the student should be able to develop the clinical skills, professional attitudes, and essential knowledge necessary for the recognition and referral to a psychiatrist as part of General Medicine. The student must understand the medical Management and fundamental principles that underpin the care of people with mental health disorders.

COMPETENCIES

The student must demonstrate:

- Knowledge of etiology (bio-psycho-social-environmental interactions), clinical features, diagnosis and management of common psychiatric disorders across all ages.
- Ability to recognize and manage common psychological and psychiatric disorders in a primary care setting, institute preliminary treatment in disorders difficult to manage, and refer appropriately.
- Ability to recognize alcohol/ substance abuse disorders and refer them to appropriate centres
- Ability to assess risk for suicide and refer appropriately.
- Ability to recognize temperamental difficulties and personality disorders.
- Assess mental disability and rehabilitate appropriately.
- Understanding of National and State programmes that address mental health and welfare of patients and community.

OBJECTIVES:

Knowledge:

At the end of the course the student shall be able to:

- Understand the comprehensive nature development of different aspects of normal human behaviour like learning, memory, motivation, personality & intelligence
- Recognize differences between normal & abnormal behaviour
- Classify psychiatric disorders
- Recognize clinical manifestations of the following common syndromes & plan their appropriate management of organic psychosis, functional psychosis, schizophrenia, affective disorders, neurotic disorders, personality disorders, psycho physiological disorders, drug & alcohol dependence, psychiatric disorders of childhood & adolescence
- Describe rational use of different mode of therapy in psychiatric disorders.

Skills

At the end of the course, the student should be able to:

- Capable of making a rapport with the patient and understanding the patient condition.
- Understanding how to elicit the Psychopathology and conduct a mental status examination
- Formulate case findings and make a diagnosis and management plan
- Learn how to manage Common mental illness (CMI) and when to refer to a psychiatrist.
- Learn commonly used classes of Psychotropic drugs, their indications and side effects
- Must be aware of the basics of neuro developmental disorders.
- Knowledgeable about the warning signs or risk factors and prevention of emergencies like Suicide, drug intoxication and withdrawals.
- Must know how to screen the alcohol use disorders patients and tobacco use disorder patients and be able to provide them options to quit.
- Able to perform bedside clinical tests like how to look and exam for functional moment disorders, dementia, drug-induced side effects and neurological examination.
- Learn the basics of psychology concepts.
- Aware of Cognitive-behavioural Therapy, clinical applications of conditioning.

Attitude and Communication

- Understand the patient situation, showing empathy and care to the patient.
- Learn de-escalation methods to deal with an agitated or aggressive patient.
- Know how to break the bad news.
- Provide proper Psycho-education to the patient regarding the warning signs, illness, recurrence and relapse

Integration:

The teaching should be aligned and integrated horizontally and vertically to emphasize the biological basis of diseases and an association of psychological and environmental factors.

TERMS AND TEACHING GUIDELINES

1. LECTURE

It is a teaching-learning method which includes traditional and interactive sessions involving a large group

2. SMALL GROUP DISCUSSION

It is an instructional method involving small groups of students in an appropriate learning context.

3. DOAP (Demonstration- Observation - Assistance - Performance)

A practical session that allows the student to observe demonstration assists the performer, perform in a simulated environment, perform under supervision or perform independently.

4. SELF DIRECTED LEARNING

A process in which individuals take the initiative, with or without the help of others in diagnosing their learning needs, formulating learning goals, identifying human and material sources for learning, choosing and implementing appropriate learning methods.

5. SKILL ASSESSMENT

Is a session that assesses the skill of the student including those in the practical laboratory, skills lab, skills station that uses mannequins/ paper case/simulated patients/real patients as the context demands.

6. CORE

A competency that is necessary in order to complete the requirements of the subject (traditional must know)

7. NON – CORE

A competency that is optional in order to complete the requirements of the subject (traditional nice (good) to know/ desirable to know.

MINIMUM TEACHING HOURS

Table: Distribution of subjects by Professional Phase

Third	General Medicine, General Surgery, Obstetrics &	18 months	III
Professional	Gynecology, Pediatrics, Orthopedics, Dermatology,		Professional
MBBS Part II	Psychiatry, Otorhinolaryngology, Ophthalmology,		(Part II)
	Community Medicine, Forensic Medicine and		
	Toxicology, Respiratory medicine, Radio diagnosis		
	& Radiotherapy, Anesthesiology		
	Clinical subjects /postings		
	Attitude, Ethics & Communication Module		
	(AETCOM)		

Table: Third Professional Part II teaching hours

Subjects	Lectures	SGL	SDL	Total
General Medicine	95	155	55	260
General Surgery	80	140	40	260
Obstetrics and Gynecology	80	140	40	260
Pediatrics	30	60	30	120
Orthopedics	25	35	25	85
AETCOM	30	0	22	52
Dermatology	15	10	15	40
Psychiatry	15	15	15	45
Otorhinolaryngology	15	25	15	55
Ophthalmology	15	25	15	55
Radio diagnosis and Radiotherapy	8	15	15	38
Anaesthesiology	8	15	15	38
Pandemic module	28	-	-	28
Total	444	610	302	1356

Table: Clinical posting teaching hours in weeks:

Subject	II MBBS	IIIMBBS Part I	III MBBS Part II	Total weeks
Psychiatry	0	2	4	6

THEORY SYLLABUS: TOPIC AND THE COMPETENCIES

COMPETENCIES	TOPIC 1: DOCTOR – PATIENT RELATIONSHIP
PS1.2	Describe the components of communication

COMPETENCIES	TOPIC 2: MENTAL HEALTH
PS2.1	Define stress and describe its components and causes
PS2.2	Describe the role of time management, study skills, balanced diet and
	sleep wake habits in stress avoidance
PS2.3	Define and describe the principles and components of learning memory
	and emotions
PS2.4	Describe the principles of personality development and motivation
PS2.5	Define and distinguish normality and abnormality

COMPETENCIES	TOPIC 3: INTRODUCTION TO PSYCHIATRY
PS3.1	Describe the growth of psychiatry as a medical specialty, its history and
	contribution to society
PS3.2	Enumerate, describe and discuss important signs & symptoms of
	common mental disorders
PS3.6	Describe and discuss biological, psychological & social factors & their
	interactions in the causation of mental disorders
PS3.7	Enumerate and describe common organic psychiatric disorders,
	magnitude, etiology and clinical features
PS3.8	Enumerate and describe the essential investigations in patients with
	organic psychiatric disorders
PS3.9	Describe the steps and demonstrate in a simulated environment family
	education in patients with organic psychiatric disorders
PS3.10	Enumerate and describe the pharmacologic basis and side effects of
	drugs used in psychiatric disorders
PS3.11	Enumerate the appropriate conditions for specialist referral in patients
	with psychiatric disorders
PS3 12	Describe discuss and distinguish psychotic & non psychotic(Mood,
	Anxiety, Stress related) disorders

COMPETENCIES	TOPIC 4& 5: PSYCHOTIC DISORDERS
PS5.1	Classify and describe the magnitude and etiology of schizophrenia &
	other psychotic disorders
PS5.3	Describe the treatment of schizophrenia including behavioural and
	pharmacologic therapy
PS5.5	Enumerate and describe the pharmacologic basis and side effects of
	drugs used in schizophrenia
PS5.6	Enumerate the appropriate conditions for specialist referral in patients
	with psychotic disorders
PS4.1	Describe the magnitude and etiology of alcohol and substance use
	disorders
PS4.4	Describe the treatment of alcohol and substance abuse disorders
	including behavioural and pharmacologic therapy
PS4.6	Enumerate and describe the pharmacologic basis and side effects of

	drugs used in alcohol and substance abuse
PS4.7	Enumerate the appropriate conditions for specialist referral in patients
	with alcohol and substance abuse disorders

COMPETENCIES	TOPIC6: DEPRESSION
PS6.1	Classify and describe the magnitude and etiology of depression
PS6.4	Describe the treatment of depression including behavioural and
	pharmacologic therapy
PS6.6	Enumerate and describe the pharmacologic basis and side effects of
	drugs used in depression
PS6.7	Enumerate the appropriate conditions for specialist referral in patients
	with depression

COMPETENCIES	TOPIC 7: BIPOLAR DISORDERS
PS7.1	Classify and describe the magnitude and etiology of bipolar disorders
PS7.4	Describe the treatment of bipolar disorders including behavioural and
	pharmacologic therapy
PS7.6	Enumerate and describe the pharmacologic basis and side effects of
	drugs used in bipolar disorders
PS7.7	Enumerate the appropriate conditions for specialist referral in patients
	with bipolar disorders

COMPETENCIES	TOPIC 8: ANXIETY DISORDERS
PS8.1	Enumerate and describe the magnitude and etiology of anxiety
	disorders
PS8.4	Describe the treatment of anxiety disorders including behavioural and
	pharmacologic therapy
PS8.6	Enumerate and describe the pharmacologic basis and side effects of
	drugs used in anxiety disorders
PS8.7	Enumerate the appropriate conditions for specialist referral in anxiety
	disorders

COMPETENCIES	TOPIC 9: STRESS RELATED DISORDERS
PS9.1	Enumerate and describe the magnitude and etiology of stress related
	disorders
PS9.4	Describe the treatment of stress related disorders including behavioural
	and psychosocial therapy
PS9.6	Enumerate and describe the pharmacologic basis and side effects of
	drugs used in stress related disorders
PS9.7	Enumerate the appropriate conditions for specialist referral in stress
	disorders

COMPETENCIES	TOPIC 10: SOMATOFORM DISORDERS
PS10.1	Enumerate and describe the magnitude and etiology of somatoform,
	dissociative and conversion disorders
PS10.4	Describe the treatment of somatoform disorders including behavioural,

	psychosocial and pharmacologic therapy
PS10.6	Enumerate and describe the pharmacologic basis and side effects of
	drugs used in somatoform, dissociative and conversion disorders
PS10.7	Enumerate the appropriate conditions for specialist referral in patients
	with somatoform dissociative and conversion disorders

COMPETENCIES	TOPIC 11: PERSONALITY DISORDERS
PS11.1	Enumerate and describe the magnitude and etiology of personality
	disorders
PS11.4	Describe the treatment of personality disorders including behavioural,
	psychosocial and pharmacologic therapy
PS11.6	Enumerate and describe the pharmacologic basis and side effects of
	drugs used in personality disorders
PS11.7	Enumerate the appropriate conditions for specialist referral

COMPETENCIES	TOPIC 12: PSYCHOSOMATIC DISORDERS
PS12.1	Enumerate and describe the magnitude and etiology of psychosomatic
	disorders
PS12.4	Describe the treatment of psychosomatic disorders including
	behavioural, psychosocial and pharmacologic therapy
PS12.6	Enumerate and describe the pharmacologic basis and side effects of
	drugs used in psychosomatic disorders
PS12.7	Enumerate the appropriate conditions for specialist referral

COMPETENCIES	TOPIC 13: PSYCHOSEXUAL AND GENDER IDENTITY
	DISORDERS
PS13.1	Enumerate and describe the magnitude and etiology of psychosexual
	and gender identity disorders
PS13.4	Describe the treatment of psychosexual and gender identity disorders
	including behavioural, psychosocial and pharmacologic therapy
PS13.6	Enumerate and describe the pharmacologic basis and side effects of
	drugs used in psychosexual and gender identity disorders
PS13.7	Enumerate the appropriate conditions for specialist referral

COMPETENCIES	TOPIC 14: PSHICHIATRIS DISORDERS IN CHILDHOOD AND
	ADOLOSCENCE
PS14.1	Enumerate and describe the magnitude and etiology of psychiatric
	disorders occurring in childhood and adolescence
PS14.3	Describe the treatment of stress related disorders including behavioural,
	psychosocial and pharmacologic therapy
PS14.5	Enumerate and describe the pharmacologic basis and side effects of
	drugs used in psychiatric disorders occurring in childhood and
	adolescence
PS14.6	Enumerate the appropriate conditions for specialist referral in children
	and adolescents with psychiatric disorders

COMPETENCIES	TOPIC 15: MENTAL RETARDATION
PS15.1	Describe the aetiology and magnitude of mental retardation
PS15.2	Describe and discuss intelligence quotient and its measurement
PS15.4	Describe the psychosocial interventions and treatment used in mental
	retardation

COMPETENCIES	TOPIC 16: PSYCHIATRIC DISORDERS IN ELDERLY
PS16.1	Enumerate and describe common psychiatric disorders in the elderly including dementia, depression and psychosis
PS16.2	Describe the aetiology and magnitude of psychiatric illness in the elderly
PS16.3	Describe the therapy of psychiatric illness in elderly including psychosocial and behavioural therapy
PS16.5	Enumerate the appropriate conditions for specialist referral in psychiatric disorders in the elderly

COMPETENCIES	TOPIC 17: PSYCHIATRIC EMERGENCIES
PS17.1	Enumerate and describe the recognition and clinical presentation of psychiatric emergencies (Suicide, Deliberate Self Harm, Violent behaviour)
PS17.2	Describe the initial stabilisation and management of psychiatric emergencies
PS17.3	Enumerate the appropriate conditions for specialist referral in patients with psychiatric emergencies

COMPETENCIES	TOPIC 18: THERAPEUTICS
PS18.1	Enumerate the indications and describe the pharmacology, dose and
	side effects of commonly use drugs in psychiatric disorders
PS18.2	Enumerate the indications for modified electroconvulsive therapy
PS18.3	Enumerate and describe the principles and role of psychosocia
	interventions in psychiatric illness including psychotherapy,
	behavioural therapy and rehabilitation

COMPETENCIES	TOPIC 19: MISCELLANEOUS
PS19.1	Describe the relevance, role and status of community psychiatry
PS19.2	Describe the objectives strategies and contents of the National Mental
	Health Programme
PS19.3	Describe and discuss the basic legal and ethical issues in psychiatry
PS19.4	Enumerate and describe the salient features of the prevalent mental
	health laws in India
PS19.5	Describe the concept and principles of preventive psychiatry and
	mental health promotion (positive mental health); and community
	education
PS19.6	Enumerate and describe the identifying features and the principles of
	participatory management of mental illness occurring during and after
	disasters

PRACTICAL SYLLABUS: TOPIC AND THE COMPETENCIES

COMPETENCIES	ТОРІС					
PS1.1	Establish rapport and empathy with patients					
PS1.3	Demonstrate breaking of bad news in a simulated environment					
PS1.4	Describe and demonstrate the importance of confidentiality in patient					
	encounters					
PS3.3	Elicit, present and document a history in patients presenting with a					
	mental disorder					
PS3.4	Describe the importance of establishing rapport with patients					
PS3.5	Perform, demonstrate and document a minimental examination					
PS3.9	Describe the steps and demonstrate in a simulated environment family					
	education in patients with organic psychiatric disorders					
PS4.2	Elicit, describe and document clinical features of alcohol and					
	substance use disorders					
PS4.3	Enumerate and describe the indications and interpret laboratory and					
	other tests used in alcohol and substance abuse disorders					
PS4.5	Demonstrate family education in a patient with alcohol and substance					
	abuse in a simulated environment					
PS5.2	Enumerate, elicit, describe and document clinical features, positive					
	symptoms					
PS5.4	Demonstrate family education in a patient with schizophrenia in a					
	simulated environment					
PS6.2	Enumerate, elicit, describe and document clinical features in patients					
	with depression					
PS6.3	Enumerate and describe the indications and interpret laboratory and					
	other tests used in depression					
PS6.5	Demonstrate family education in a patient with depression in a					
	simulated environment					
PS7.2	Enumerate, elicit, describe and document clinical features in patients					
	with bipolar disorders					
PS7.3	Enumerate and describe the indications and interpret laboratory and					
	other tests used in bipolar disorders					
PS7.5	Demonstrate family education in a patient with bipolar disorders in a					
	simulated environment					
PS8.2	Enumerate, elicit, describe and document clinical features in patients					
	with anxiety disorders					
PS8.3	Enumerate and describe the indications and interpret laboratory and					
	other tests used in anxiety disorders					
PS8.5	Demonstrate family education in a patient with anxiety disorders in a					
	simulated environment					
PS9.2	Enumerate, elicit, describe and document clinical features in patients					
	with stress related disorders					
PS9.3	Enumerate and describe the indications and interpret laboratory and					
	other tests used in stress related disorders					
PS9.5	Demonstrate family education in a patient with stress related disorders					
	in a simulated environment					
PS10.2	Enumerate, elicit, describe and document clinical features in patients					
	with somatoform, dissociative and conversion disorders					
PS10.3	Enumerate and describe the indications and interpret laboratory and					
	other tests used in somatoform, dissociative and conversion disorders					

PS10.5	Demonstrate family education in a patient with somatoform,
	dissociative and conversion disorders in a simulated environment
PS11.2	Enumerate, elicit, describe and document clinical features in patients
	with personality disorders
PS11.3	Enumerate and describe the indications and interpret laboratory and
	other tests used in personality disorders
PS11.5	Demonstrate family education in a patient with personality disorders
	in a simulated environment
PS12.2	Enumerate, elicit, describe and document clinical features in patients
	with magnitude and etiology of psychosomatic disorders
PS12.3	Enumerate and describe the indications and interpret laboratory and
	other tests of psychosomatic disorders
PS12.5	Demonstrate family education in a patient with psychosomatic
	disorders in a simulated environment
PS13.2	Enumerate, elicit, describe and document clinical features in patients
	with magnitude and etiology of psychosexual and gender identity
	disorders
PS13.3	Enumerate and describe the indications and interpret laboratory and
	other tests used in psychosexual and gender identity disorders
PS13.5	Demonstrate family education in a patient with psychosexual and
	gender identity disorders in a simulated environment
PS14.2	Enumerate, elicit, describe and document clinical features in patients
	with psychiatric disorders occurring in childhood and adolescence
PS14.4	Demonstrate family education in a patient with psychiatric disorders
	occurring in childhood and adolescence in a simulated environment
PS15.3	Elicit and document a history and clinical examination and choose
	appropriate investigations in a patient with mental retardation
PS16.4	Demonstrate family education in a patient with psychiatric disorders
	occurring in the elderly in a simulated environment

THEORY SYLLABUS:

Sl.No	Topic	Competency No of No Teachir Hours		Teaching- Learning method
1	Doctor - patient relationship	PS1.2	2 hour	Lecture/ small group discussion
2.	Mental health	PS2.1 PS2.2 PS2.3 PS2.4 PS2.5	2 hour	Lecture/ small group discussion
3.	Introduction to Psychiatry	PS3.1 PS3.2 PS3.6 PS3.7 PS3.8 PS3.10 PS3.11 PS3.12	3 hour	Lecture/ small group discussion
4.	Psychotic Disorders	PS4.1 PS4.4 PS4.6 PS4.7 PS5.1 PS5.3 PS5.5 PS5.6	4 hours	Lecture/ small group discussion
5.	Depression	PS6.1 PS6.4 PS6.6 PS6.7	3 hours	Lecture/ small group discussion
6.	Bipolar Disorders	PS7.1 PS7.4 PS7.6 PS7.7	4 hours	Lecture/ small group discussion
7.	Anxiety Disorders	PS8.1 PS8.4 PS8.6 PS8.7	3 hours	Lecture/ small group discussion
8.	Stress related Disorders	PS9.1 PS9.4 PS9.6 PS9.7	2 hour	Lecture/ small group discussion
9.	Somatoform Disorders	PS10.1 PS10.4 PS10.6 PS10.7	2 hour	Lecture/ small group discussion
10	Personality Disorders	PS11.1 PS11.4	2 hour	Lecture/ small group discussion

		PS11.6		
		PS11.7		
11.	Psychosomatic	PS12.1	2 hour	Lecture/ small group
	Disorders	PS12.4		discussion
		PS12.6		
		PS12.7		
12.	Psychosexual and	PS13.1	2 hour	Lecture/ small group
	gender identity	PS13.4		discussion
	disorders	PS13.6		
		PS13.7		
13.	Psychiatric disorders in	PS14.1	3 hours	Lecture/ small group
	childhood and	PS14.3		discussion
	adolescence	PS14.5		
		PS14.6		
14.	Mental Retardation	PS15.1	2 hour	Lecture/ small group
		PS15.2		discussion
		PS15.4		
15.	Psychiatric Disorders in	PS16.1	3 hours	Lecture/ small group
	elderly	PS16.2		discussion
		PS16.3		
		PS16.5		
16.	Psychiatric emergencies	PS17.1	3 hours	Lecture/ small group
	and Therapeutics	PS17.2		discussion
		PS17.3		
		PS18.1		
		PS18.2		
		PS18.3		
17	Miscellaneous	PS19.1	3 hours	Lecture/ small group
		PS19.2		discussion
		PS19.3		
		PS19.4		
		PS19.5		
		PS19.6		
	Total		45 hours	

PRACTICAL SYLLABUS

S.NO.	Торіс	Teaching Method		
1.	Establishing rapport and empathy with patients,	Bed side clinics/DOAP		
	breaking bad news, confidentiality			
2.	History-taking, Mini mental status examination, family	Bed side clinics/ DOAP		
	education in organic psychiatric conditions			
3.	Enumerate, elicit, describe and document clinical	Bed side clinics/DOAP		
	features Alcohol and substance use disorders			
4.	Enumerate, elicit, describe and document clinical	Bed side clinics/DOAP		
	features Psychotic disorders			
5.	Enumerate, elicit, describe and document clinical	Bed side clinics/DOAP		
	features in depression and Bipolar disorders			
6.	Enumerate, elicit, describe and document clinical	Bed side clinics/DOAP		
	features in anxiety disorders, stress related disorders,			
	somatoform disorders			
7.	Enumerate, elicit, describe and document clinical	Bed side clinics/DOAP		
	features in personality disorders, Psychosomatic			
	disorders and gender identity disorders			
8.	Enumerate, elicit, describe and document clinical	Bed side clinics/DOAP		
	features in patients with psychiatric disorders			
	occurring in childhood and adolescence and in elderly			
9.	Elicit and document a history and clinical examination	Bed side clinics/DOAP		
	and choose appropriate investigations in a patient with			
	mental retardation			
10.	Describe the initial stabilisation and management of	Bed side clinics/DOAP		
	psychiatric emergencies, Enumerate the appropriate			
	conditions for specialist referral in patients with			
	psychiatric emergencies			
11.	ECT, CBT, Psychosurgeries	Bed side clinics/DOAP		

The above topics will be covered over a total period 6 weeks during psychiatry clinical postings.

COMPETENCIES, SPECIFIC LEARNING OBJECTIVES, TEACHING LEARNING AND ASSESSMENT METHODS

ropic:	Doctor patient relationship Numł	ber of CO	mpete	ncies: (04	9	
Numbe r	e COMPETENCY The student should be able to	Doma in K/S/A /C	Lev el K/ KH / SH/	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method
PS1.1	Establish rapport and empathy with patients	A/C	P SH	Y	DOAP session	Skill station
PS1.2	Describe the components of communication	K	KH	Y	Lecture, Small group discussion	
PS1.3	Demonstrate breaking of bad news in a simulated environment	A/C	SH	Y	DOAP session	Skill station
PS1.4	Describe and demonstrate the importance of confidentiality in patient encounters	A/C	SH	Y	DOAP session	Faculty observation
Topic:	Mental health Numl	ber of co	mpete	ncies: (05	5)	
PS2.1	Define stress and describe its components and causes	K	K	Y	Lecture, Small group discussion	Written/ Viva voce
PS2.2	Describe the role of time management, study skills, balanced diet and sleep wake habits in stress avoidance	K	KH	Y	Lecture, Small group discussion	Viva voce
PS2.3	Define and describe the principles and components of learning memory and emotions	K	K	Y	Lecture, Small group discussion	Written/ Viva voce
PS2.4	Describe the principles of personality development and motivation	K	K	Y	Lecture, Small group discussion	Written/ Viva voce
PS2.5	Define and distinguish normality and abnormality	K	K	Y	Lecture, Small group discussion	Viva voce
Topic:	Introduction to psychiatry Numl	ber of co	mpete	ncies: (12		1
PS3.1	Describe the growth of psychiatry as a medical specialty, its history and contribution to society	K	KH	Y	Lecture	Written/ Viva voce

Numbe r	COMPETENCY The student should be able to	Dom ain K/S/	Lev el K/K	Core (Y/N)	Suggested Teaching Learning	Suggested Assessment method
		A/C	K/K H/ SH/ P		method	
PS3.2	Enumerate, describe and discuss important signs & symptoms of common mental disorders	K	КН	Y	Lecture, Small group discussion	Written/ Viva voce
PS3.3	Elicit, present and document a history inpatients presenting with a mental disorder	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS3.4	Describe the importance of establishing rapport with patients	S/A	SH	Y	Bed side clinic, DOAP session	Skill assessment/ Faculty observation
PS3.5	Perform, demonstrate and document amini mental examination	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS3.6	Describe and discuss biological, psychological & social factors& their interactions in the causation of mental disorders	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS3.7	Enumerate and describe common organic psychiatric disorders, magnitude, etiology and clinical features	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS3.8	Enumerate and describe the essential investigations inpatients with organic psychiatric disorders	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS3.9	Describe the steps and demonstrate in a simulated environment family education in patients with organic psychiatric disorders	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS3.10	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychiatric disorders	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS3.11	Enumerate the appropriate conditions for special is trifluralin patients with psychiatric disorders	K	К	Y	Lecture, Small group discussion	Written/Viva voce

PS3.12	Describe, discuss and distinguish psychotic & non-psychotic (Mood, Anxiety, Stress related) disorders	К	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS4.1	Describe the magnitude and etiology of alcohol and substance use disorders	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS4.2	Elicit, describe and document clinical features of alcohol and substance use disorders	S	SH	Y	Bed side clinic, DOAP session	Skill assessment

	COMPETENCY The student should be able to	Dom	Lev el	Core	Suggested	Suggested
r	The student should be able to	ain K/S/ A/C	K/K H/ SH/ P	(Y/N)	Teaching Learning method	Assessment method
PS4.3	Enumerate and describe the indications and interpret laboratory and other tests used in alcohol and substance abuse disorders	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS4.4	Describe the treatment of alcohol and substance abuse disorders including behavioural and pharmacologic therapy	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS4.5	Demonstrate family education in a patient with alcohol and substance abuse in a simulated environment	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS4.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in alcohol and substance abuse	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS4.7	Enumerate the appropriate conditions for specialist referral in patients with alcohol and substance abuse disorders	K	К	Y	Lecture, Small group discussion	Written/Viva voce
PS5.1	Classify and describe the magnitude and etiology of schizophrenia & other psychotic disorders	K	KH	Y	Lecture, Small group discussion	Written/Viva voce
PS5.2	Enumerate, elicit, describe and document clinical features, positives	S	SH	Y	Bed side clinic, DOAP session	Skill assessment

PS5.3	Describe the treatment of	K	KH	Y	Lecture,	Written/Viva voce
	schizophrenia including behavioural				Small	
	and pharmacologic therapy				group	
					discussion	
PS5.4	Demonstrate family education in a	K/S/A/	SH	Y	Bed side	Skill assessment
	patient with schizophrenia in a	C			clinic,	
	simulated environment				DOAP	
					session	
PS5.5	Enumerate and describe the	K	KH	Y	Lecture,	Written/Viva voce
	pharmacologic basis and side				Small	
	effects of drugs used in				group	
	schizophrenia				discussion	
PS5.6	Enumerate the appropriate	K	Κ	Y	Lecture,	Written/Viva voce
	conditions for specialist referral in				Small	
	patients with psychotic disorders				group	
					discussion	

PS6.1	Classify and describe the magnitude and etiology of depression	K	KH	Y	Lecture, Small group discussion	Written/Viva voce
PS6.2	Enumerate, elicit, describe and document clinical features in patients with depression	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS6.3	Enumerate and describe the indications and interpret laboratory and other tests used in depression	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS6.4	Describe the treatment of depression including behavioural and pharmacologic therapy	K	KH	Y	Lecture, Small group discussion	Written/Viva voce
PS6.5	Demonstrate family education in a patient with depression in a simulated environment	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS6.6	Enumerate and describe the Pharmacologic basis and side effects of drugs used in depression	K	KH	Y	Lecture, Small group discussion	Written/Viva voce
PS6.7	Enumerate the appropriate conditions for specialist referral in patients with depression	K	K	Y	Lecture, Small group discussion	Written/Viva voce
PS7.1	Classify and describe the magnitude and etiology of bipolar disorders	K	KH	Y	Lecture, Small	Written/Viva voce

					group discussion	
PS7.2	Enumerate, elicit, describe and document clinical features in patients with bipolar disorders	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS7.3	Enumerate and describe the indications and interpret laboratory and other tests used in bipolar disorders	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS7.4	Describe the treatment of bipolar disorders including behavioural and pharmacologic therapy	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS7.5	Demonstrate family education in a patient with bipolar disorders in a simulated environment	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS7.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in bipolar disorders	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS7.7	Enumerate the appropriate conditions for specialist referral in patients with bipolar disorders	K	K	Y	Lecture, Small group discussion	Written/Viva voce
PS8.1	Enumerate and describe the magnitude and etiology of anxiety disorders	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS8.2	Enumerate, elicit, describe and document clinical features in patients with anxiety disorders	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS8.3	Enumerate and describe the indications and interpret laboratory and other tests used in anxiety disorders	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS8.4	Describe the treatment of anxiety disorders including behavioural and pharmacologic therapy	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS8.5	Demonstrate family education in a patient with anxiety disorders in a simulated environment	S	SH	Y	Bed side clinic, DOAP session	Skill assessment

PS8.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in anxiety disorders	K	KH	Y	Lecture, Small group discussion	Written/Viva voce
PS8.7	Enumerate the appropriate conditions for specialist referral in anxiety disorders	K	К	Y	Lecture, Small group discussion	Written/Viva voce
PS9.1	Enumerate and describe the magnitude and etiology of stress related disorders	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS9.2	Enumerate, elicit, describe and document clinical features in patients with stress related disorders	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS9.3	Enumerate and describe the indications and interpret laboratory and other tests used in stress related disorders	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS9.4	Describe the treatment of stress related disorders including behavioural and psychosocial therapy	K	KH	Y	Lecture, Small group discussion	Written/Viva voce
PS9.5	Demonstrate family education in a patient with stress related disorders in a simulated environment	S	SH	Y	Bed side clinic, DOAP session	Skill assessment

PS9.6	Enumerate and describe the	K	KH	Y	Lecture,	Written/Viva voce
	pharmacologic basis and side effects				Small	
	of drugs used in stress related				group	
	disorders				discussion	
PS9.7	Enumerate the appropriate conditions	K	K	Y	Lecture,	Written/Viva voce
	for specialist referral in stress				Small	
	disorders				group	
					discussion	
PS10.	Enumerate and describe the magnitude	K	KH	Y	Lecture,	Written/Viva voce
1	and etiology of somato form,				Small	
	dissociative and conversion disorders				group	
					discussion	
PS10.	Enumerate, elicit, describe and	S	SH	Y	Bed side	Skill assessment
2	document clinical features in				clinic,	
	patients with somato form,				DOAP	
	dissociative and conversion				session	
	disorders					

PS10.	Enumerate and describe the indications	S	SH	Y	Bed side	Skill assessment
3	and interpret laboratory and other tests				clinic,	
	used in somatoform, dissociative and				DOAP	
	conversion disorders				session	
PS10.	Describe the treatment of somato	K	KH	Y	Lecture,	Written/Viva voce
4	form disorders including behavioural,				Small	
	psychosocial and pharmacologic				group	
	therapy				discussion	
PS10.	Demonstrate family education in a	S	SH	Y	Bed side	Skill assessment
5	patient with somatoform, dissociative				clinic,	
	and conversion disorders in a				DOAP	
	simulated environment				session	
PS10.	Enumerate and describe the	K	KH	Y	Lecture,	Written/Viva voce
6	pharmacologic basis and side effects				Small	
	of drugs used in somato form,				group	
	dissociative and conversion disorders				discussion	
PS10.	Enumerate the appropriate conditions	K	K	Y	Lecture,	Written/Viva voce
/	for specialist referral in patients with				Small	
	somato form dissociative and				group	
	conversion disorders				discussion	
PS11.	Enumerate and describe the	K	KH	Y	Lecture,	Written/Viva voce
1	magnitude and etiology of personality				Small	
	disorders				group	
					discussion	
PS11. 2	Enumerate, elicit, describe and	S	SH	Y	Bed side	Skill assessment
2	document clinical features in patients				clinic,	
	with personality disorders				DOAP	
					session	

Numb	COMPETENCY	Dom	Level	Core	Suggested	Suggested
er	The student should be able to	ain	K/K	(Y/N)	Teaching	Assessment method
		K/S/	H /		Learning	
		A/C	SH/P		method	
PS11.	Enumerate and describe the indications	S	SH	Y	Bed side	Skill assessment
3	and interpret laboratory and other tests				clinic,	
	used in personality disorders				DOAP	
					session	
	Describe the treatment of personalit y	K	KH	Y	Lecture,	Written/Viva voce
4	disorders including behavioural,				Small	
	psychosocial and pharmacologic				group	
	therapy				discussion	
PS11.	Demonstrate family education in a	S/A	SH	Y	Bed side	Skill assessment
5	patient with personality disorders in a	/C			clinic,	
	simulated environment				DOAP	
					session	

PS11.	Enumerate and describe the	K	KH	Y	Lecture,	Written/Viva voce
6	pharmacologic basis and side effects				Small	
	of drugs used in personality				group	
	disorders				discussion	
PS11.	Enumerate the appropriate conditions	K	K	Y	Lecture,	Written/Viva voce
7	for specialist referral				Small	
					group	
					discussion	
PS12.	Enumerate and describe the magnitude	K	KH	Y	Lecture,	Written/Viva voce
1	and etiology of psychosomatic				Small	
	disorders				group	
					discussion	
PS12.	Enumerate, elicit, describe and	S	SH	Y	Bed side	Skill assessment
2	document clinical features in				clinic,	
	patients with magnitude and etiology				DOAP	
	of psychosomatic disorders				session	
PS12.	Enumerate and describe the indications	S	SH	Y	Bed side	Skill assessment
3	and interpret laboratory and other tests				clinic,	
	of psychosomatic disorders				DOAP	
					session	
PS12.	Describe the treatment of	K	KH	Y	Lecture,	Written/Viva voce
4	psychosomatic disorders including				Small	
	behavioural, psychosocial and				group	
	pharmacologic therapy				discussion	
PS12.	Demonstrate family education in a	S	SH	Y	Bed side	Skill assessment
5	patient with psychosomatic disorders				clinic,	
	in a simulated environment				DOAP	
					session	
PS12.	Enumerate and describe the	K	KH	Y	Lecture,	Written/Viva voce
6	pharmacologic basis and side effects				Small	
	of drugs used in psychosomatic				group	
	disorders				discussion	
PS12. 7	Enumerate the appropriate conditions for specialist referral	K	K	Y	Lecture,	Written/Viva voce
/	for specialist referral				Small	
					group	
					discussion	

Numb er	COMPETENCY The student should be able to	Dom ain K/S/ A/C	Level K/K H/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method
PS13. 1	Enumerate and describe the magnitude and etiology of psychosexual and gender identity disorders	K	KH	Y	Lecture, Small group discussion	Written/Viva voce

DC12		C	CII	V	D 1 1 1	
PS13. 2	Enumerate, elicit, describe and	S	SH	Y	Bed side	Skill assessment
2	document clinical features in				clinic,	
	patients with magnitude and etiology				DOAP	
	of psycho sexual and gender identity				session	
	disorders					
PS13.	Enumerate and describe the indications	S	SH	Y	Bed side	Skill assessment
3	and interpret laboratory and other tests				clinic,	
	used in psychosexual and gender				DOAP	
	identity disorders				session	
PS13.	Describe the treatment of	K	KH	Y	Lecture,	Written/Viva voce
4	psychosexual and gender identity				Small	
	disorders including behavioural,					
	-				group discussion	
	psychosocial and pharmacologic				discussion	
PS13.	therapy	S	SH	Y	D 1 · 1	Skill assessment
5	Demonstrate family education in a	3	ы	I	Bed side	SKIII assessment
-	patient with psycho sexual and gender				clinic,	
	identity disorders in a simulated				DOAP	
	environment				session	
PS13.	Enumerate and describe the	K	KH	Y	Lecture,	Written/Viva voce
6	pharmacologic basis and side effects				Small	
	of drugs used in psychosexual and				group	
	gender identity disorders				discussion	
PS13.	Enumerate the appropriate conditions	K	K	Y	Lecture,	Written/Viva voce
7	for specialist referral				Small	
					group	
					discussion	
PS14.	Enumerate and describe the	K	KH	Y	Lecture,	Written/Viva voce
1	magnitude and etiology of psychiatric				Small	
	disorders occurring in childhood and				group	
	adolescence				discussion	
PS14.		S	SH	Y	Bed side	Skill assessment
2	Enumerate, elicit, describe and	5	511	1		Skill assessment
	document clinical features in				clinic,	
	patients with psychiatric				DOAP	
	disorders occurring in childhood				session	
	and adolescence					

3	Describe the treatment of stress related disorders including behavioural, psychosocial and pharmacologic therapy	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS14. 4	Demonstrate family education in a patient with psychiatric disorders occurring in childhood and adolescence in a simulated environment	S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS14. 5	Enumerate and describe the pharmacologic basis and side effects	K	KH	Y	Lecture, Small	Written/Viva voce

	of drugs used in psychiatric disorders occurring in childhood and adolescence				group discussion	
PS14. 6	Enumerate the appropriate conditions for specialist referral in children and adolescents with psychiatric disorders	К	К	Y	Lecture, Small group discussion	Written/Viva voce
	Describe the aetiology and magnitude of mental retardation	К	КН	Y	Lecture, Small group discussion	Written/Viva voce
	Describe and discuss intelligence quotient and its measurement	К	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS15. 3	Elicit and document a history and clinical examination and choose appropriate investigations in a patient with mental retardation	K/S	SH	Y	Bed side clinic, DOAP session	Skill assessment
PS15. 4	Describe the psychosocial interventions and treatment used in mental retardation	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
1	Enumerate and describe common psychiatric disorders in the elderly including dementia, depression and psychosis	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
2	Describe the aetiology and magnitude of psychiatric illness in the elderly	К	КН	Y	Lecture, Small group discussion	Written/Viva voce
12	Describe the therapy of psychiatric illness in elderly including psychosocial and behavioural therapy	K	KH	Y	Lecture, Small group discussion	Written/Viva voce

PS16. 4	Demonstrate family education in a patient with psychiatric disorders	S	SH	Y	Bed side clinic,	Skill assessment
	occurring in the elderly in a simulated				DOAP	
	environment				session	
PS16.	Enumerate the appropriate conditions	Κ	K	Y	Lecture,	Written/Viva voce
5	for specialist referral in psychiatric				Small	
	disorders in the elderly				group	
					discussion	

1	Enumerate and describe the recognition and clinical presentation of psychiatric emergencies (Suicide, Deliberate Self Harm, Violent behaviour)	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
2	Describe the initial stabilisation and management of psychiatric emergencies				Lecture, Small group discussion	
PS17. 3	Enumerate the appropriate conditions for specialist referral in patients with psychiatric emergencies	K	К	Y	Lecture, Small group discussion	Written/Viva voce
PS18. 1	Enumerate the indications and describe the pharmacology, dose and side effects of commonly use drugs in psychiatric disorders	K	KH	Y	Lecture, Small group discussion	Written/Viva voce
PS18. 2	Enumerate the indications for modified electroconvulsive therapy	K	К	Y	Lecture, Small group discussion	Written/Viva voce
PS18. 3	Enumerate and describe the principles and role of psychosocial interventions in psychiatric illness including psychotherapy, behavioural therapy and rehabilitation	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS19. 1	Describe the relevance, role and status of community psychiatry	K	КН	Y	Lecture, Small group discussion	Written/Viva voce

Numb er	COMPETENCY The student should be able to	Dom ain K/S/ A/C	Level K/K H/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method
PS19. 2	Describe the objectives strategies and contents of the National Mental health programme	K	KH	Y	Lecture, Small group discussion	Written/Viva voce
PS19. 3	Describe and discuss the basic legal and ethical issues in psychiatry	K	КН	Y	Lecture, Small group discussion	Written/Viva voce
PS19. 4	Enumerate and describe the salient features of the prevalent mental health laws in India	К	KH	Y	Lecture, Small group discussion	Written/Viva voce

5	Describe the concept and principles of preventive psychiatry and mental health promotion (positive mental health); and community	K	KH	Y	Lecture, Small group discussion	Written/Viva voce
PS19. 6	education Enumerate and describe the identifying features and the principles of participatory management of mental illness occurring during and after disasters	K	КН	Y	Lecture, Small group discussion	Written/Viva voce

TOPICS FOR SELF-DIRECTED LEARNING

S.NO	COMPETENC NUMBER	CY COMPETENCY
1	PS19.2	Describe the objectives strategies and contents of the National Mental health programme
2	PS19.3	Describe and discuss the basic legal and ethical issues in psychiatry
3	PS19.4	Enumerate and describe the salient features of the prevalent mental health laws in India
4	PS19.5	Describe the concept and principles of preventive psychiatry and mental health promotion (positive mental health); and community education
5	PS19.6	Enumerate and describe the identifying features and the principles of participatory management of mental illness occurring during and after disasters

Topics for Integration:

	PHYSIOLOGY					
Number	COMPETENCY The student should be able to	Vertical integration	Horizontal Integration			
PY10.7	Describe and discuss functions of cerebral cortex, basal ganglia, thalamus, hypothalamus, cerebellum and limbic system and their abnormalities	Psychiatry	Human Anatomy			
PY10.8	Describe and discuss behavioral and EEG characteristics during sleep and mechanism responsible for its production	Psychiatry				

PY10.9	Describe and discuss the physiological basis of memory, learning and speech	Psychiatry	
PY10.12	Identify normal EEG forms	Psychiatry	

PHARMACOLOGY					
COMPETENCY The student should be able to	Vertical integration	Horizontal Integration			
Describe the mechanism/s of action, types, doses, side effects, indications and contra indications of the drugs which acton CNS, (including anxiolytics, sedatives &hypnotics, antipsychotic, anti-depressant drugs, anti- maniacs, opioid agonists and antagonists, drugs used for neurodegenerative disorders, anti-epileptics drugs)	Psychiatry, Physiology				
Describe the effects of acute and chronic ethanolin take. Describe the symptoms and management of methanol and ethanol poisonings	Psychiatry				
Describe drugs of abuse (dependence, addiction, stimulants, depressants, psychedelics, drugs used for criminal offences)	Psychiatry	Forensic Medicine			
Describe the process and mechanism of drug de- addiction	Psychiatry				
Demonstrate an understanding of the caution in prescribing drugs likely to produce dependence and recommend the line of management	Psychiatry				
Demonstrate ability to educate public & patients about various aspects of drug use including drug dependence and OTC drugs.	Psychiatry				
COMMUNITY MEDICINE	C				
Define and describe the concept of mental Health	Psychiatry				
Describe warning sign also mental health disorder	Psychiatry				
Describe National Mental Health program	Psychiatry				
	COMPETENCY The student should be able to Describe the mechanism/s of action, types, doses, side effects, indications and contra indications of the drugs which acton CNS, (including anxiolytics, sedatives &hypnotics, antipsychotic, anti-depressant drugs, anti- maniacs, opioid agonists and antagonists, drugs used for neurodegenerative disorders, anti-epileptics drugs) Describe the effects of acute and chronic ethanolin take. Describe the symptoms and management of methanol and ethanol poisonings Describe drugs of abuse (dependence, addiction, stimulants, depressants, psychedelics, drugs used for criminal offences) Describe the process and mechanism of drug de- addiction Demonstrate an understanding of the caution in prescribing drugs likely to produce dependence and recommend the line of management Demonstrate ability to educate public & patients about various aspects of drug use including drug dependence and OTC drugs. COMMUNITY MEDICINE Define and describe the concept of mental Health Describe warning sign also mental health disorder	COMPETENCY The student should be able toVertical integrationDescribe the mechanism/s of action, types, doses, side effects, indications and contra indications of the drugs which acton CNS, (including anxiolytics, sedatives & hypnotics, antipsychotic, anti-depressant drugs, anti- maniacs, opioid agonists and antagonists, drugs used for neurodegenerative disorders, anti-epileptics drugs)Psychiatry, PhysiologyDescribe the effects of acute and chronic ethanolin take. Describe the symptoms and management of methanol and ethanol poisoningsPsychiatryDescribe drugs of abuse (dependence, addiction, stimulants, depressants, psychedelics, drugs used for criminal offences)PsychiatryDemonstrate an understanding of the caution in prescribing drugs likely to produce dependence and recommend the line of managementPsychiatryDemonstrate ability to educate public & patients about various aspects of drug use including drug dependence and OTC drugs.PsychiatryDefine and describe the concept of mental HealthPsychiatryDescribe warning sign also mental health disorderPsychiatry			

FORENSIC MEDICINE& TOXICOLOGY

FM3.17			
ГWI3.17	Describe and discuss the sexual perversions fetichism,		
	transvestism, voyeurism, sadism, necrophagia,	Gynecology,	
	masochism, exhibitionism, frotteurism, Necrophilia	Psychiatry	
FM5.1	Classify common mental illnesses including post-	Psychiatry	
	traumatic stress disorder (PTSD)		
EM5 0		Derrehister	
FM5.2		Psychiatry	
	illusion, lucid interval and obsessions with		
	exemplification		
FM5.3	Describe civil and criminal responsibilities of a mentally	Psychiatry	
	illness person		
FM5.4	Differentiate between true in sanity from feigned	Psychiatry	
	insanity		
FM5.5	Describe & discuss Delirium tremens	Darrahiaterr	
1 1010.0		Psychiatry, General	
FM5.6		Medicine	
FNI3.0	Describe the Indian Mental Health Act, 1987 with	Psychiatry	
	special reference to admission, care and discharge of a		
	mentally ill person		
	GENERAL MEDICINI	F.	
IM17.14	Counsel patients with migraine and tension head	Pharmacology	Psychiatry
	acheon lifestyle changes and need for prophylactic		
	therapy		
IM21.8	Enumerate the indications for psychiatric consultation	Forensic	
	and describe the precautions to be taken in a patient	Medicine,	
	with suspected suicidal ideation / gesture	Psychiatry	
IM24.2	Perform multi dimension a geriatric assess ment that	Psychiatry	
	includes medical, psycho-social and functional		
	components		
IM24.5	Describe and discuss the aetio pathogenesis, clinical		Psychiatry
	presentation, identification, functional changes, acute		
	care, stabilization, management and rehabilitation of		
	depression in the elderly		
		1	1

IM24.7	Describe and discuss the aetio pathogenesis, clinical	Psychiatry		
	presentation, identification, functional changes,			
	acute care, stabilization, management and			
	rehabilitation of personality changes in the elderly			
IM24.19	Enumerate and describe the social problems in the	Psychiatry		
	elderly including isolation, abuse, change in family			
	structure and their impact on health			
PEDIATRICS				

PE1.2	Discuss and describe the patterns of growth in infants, children and Adolescents	Psychiatry
PE1.3	Discuss and describe the methods of assessment of growth including use of WHO and Indian national standards. Enumerate the parameters used for assessment of physical growth in infants, children and adolescents	Psychiatry
PE1.5	Define development and discuss the normal developmental milestones with respect to motor, behaviour, social, adaptive and language	Psychiatry
PE5.4	Describe the clinical features, diagnosis and management of Breath Holding spells	Psychiatry
PE5.5	Describe the clinical features, diagnosis and management of Temper tantrums	Psychiatry
PE5.7	Describe the clinical features, diagnosis and management of Fussy infant	Psychiatry
PE5.10	Discuss the role of child guidance clinic in children with Behavioral problems and the referral criteria	Psychiatry
PE6.2	Describe the physical, physiological and psychological changes during Adolescence (Puberty)	Psychiatry

PE6.4	Describe Adolescent sexuality and common problems related to it		Psychiatry
PE6.5	Explain Adolescent Nutrition and common nutritional problems		Psychiatry
PE6.6	Discuss the common Adolescent Eating disorders (Anorexia Nervosa, Biulimia)		Psychiatry
PE6.7	Describe the common mental health problems during Adolescence		Psychiatry
PE6.13	Enumerate the prevalence and the importance of recognition of sexual drug abuse in adolescents and children		Psychiatry
	Physical Medicine & Rehabilitation	1	·
PM 9.1	Describe rehabilitative aspects as they pertain to the elderly including patients with dementia, depression, in continence immobility and nutritional needs		General Medicine, Psychiatry
	Dermatology, Venereology & Lepr	osy	
DR9.7	Enumerate and describe the complications of leprosy and its management, including understanding disability and stigma		Pharmacology, Psychiatry
	Forensic Medicine & Toxicolog	y	•
FM2.5	Discuss moment of death, modes of death-coma, asphyxia and syncope	Psychiatry	Pathology

FM3.14	SEXUALOFFENCES Describe and discuss the examination of the victim of an alleged case of rape, and the preparation of report framing the opinion and preservation and dispatch of trace evidences in such cases	Psychiatry
FM3.15	SEXUAL OFFENCES Describe and discuss examination of accused and victim of sodomy, preparation of report, framing of opinion, preservation and despatch of trace evidences in such cases	^f Psychiatry
FM3.16	SEXUALOFFENCES Describe and discuss adultery and unnatural sexual offences- sodomy, incest, lesbianism, buccal coitus, bestiality, indecent assault and preparation of report, framing the opinion and preservation and despatch of trace evidences in such cases	Obstetrics & Gynaecology, Psychiatry

LIST OF INSTRUMENTS

- 1. ECT machine
- 2. Bhatia Battery
- 3. PGI Battery
- 4. Rorschach test
- 5. Thematic apperception test

Recommended textbooks:

- 1. A short textbook of Psychiatry: Niraj Ahuja
- 2. New oxford textbook of Psychiatry
- 3. Shorter Oxford Textbook of psychiatry
- 4. Kaplan and Sadock's Synopsis of Psychiatry: Behavioural Sciences/Clinical psychiatry
- 5. Introduction to Psychology: T. Morgan and A. King

IPS undergraduate textbook for Psychiatry

Department of General Surgery

Name of the program: COMPETENCY BASED UNDERGRADUATE CURRICULUM FOR INDIAN MEDICAL GRADUATE Name of the subject: General Surgery (SU) Paper I Course code: GES003 Paper II Course code: GES004 Practical's Course code: GES205

Orthopedics – **OR** Anesthesiology – **AS** Dentistry – **DE** Radiodiagnosis - **RD** Radiotherapy – **RTGOAL**

General Surgery

The broad goal of the teaching of undergraduate students in Surgery is to produce graduates capable of delivering efficient first contact surgical care. The student should be able to develop the clinical skills, professional attitudes and knowledge base for the practice of general surgery through exposure to general surgical disorders. The student must appreciate the medical management and basic foundations underlying the care of surgical patients.

COMPETENCIES

General surgery

The student must demonstrate:

- Understanding of the structural and functional basis, principles of diagnosis and management of common surgical problems in adults and children.
- Ability to choose, calculate and administer appropriately intravenous fluids, electrolytes, blood and blood products based on the clinical condition.
- Ability to apply the principles of asepsis, sterilization, disinfection, rational use of prophylaxis, therapeutic utilities of antibiotics and universal precautions in surgical practice.
- Knowledge of common malignancies in India and their prevention, early detection and therapy.
- Ability to perform common diagnostic and surgical procedures at the primary care level,
- Ability to recognize, resuscitates, stabilize and provide Basic & Advanced Life Support to patients following trauma,
- Ability to administer informed consent and counsel patient prior to surgical procedures.
- Commitment to advancement of quality and patient safety in surgical practice.

Orthopedics (including Trauma)

The student must demonstrate:

- Ability to recognize and assess bone injuries, dislocation and poly-trauma and provide first contact care prior to appropriate referral.
- Knowledge of the medico-legal aspects of trauma.
- Ability to recognize and manage common infections of bone and joints in the primary care setting.
- Ability to recognize common congenital, metabolic, neoplastic, degenerative and inflammatory bone diseases and refer appropriately.
- Ability to perform simple orthopedic techniques as applicable to a primary care setting.
- Abilitytorecommendrehabilitativeservicesforcommonorthopedicproblemsacrossall ages.

OBJECTIVES

General Surgery

Knowledge:

At the end of the course, the student should be able to:

- Describe aetiology, pathophysiology, principles of diagnosis and management of common surgical problems including emergencies, in adults and children.
- Define indications and methods for fluid and electrolyte replacement therapy including bloodtransfusion.

- Define asepsis, disinfection and sterilization and recommend judicious use of antibiotics.
- Describe common malignancies in the country and their management including prevention.
- Enumerate different types of anesthetic agents, their indications mode of administration.
- Contraindications and side effects.

Skills

At the end of the course, the student should be able to:

- Perform clinical examination for various surgical conditions.
- Diagnose common surgical conditions both acute and chronic, in adult and children.
- Plan various laboratory tests for surgical conditions and interpret the results:
- Identify and manage patients of hemorrhagic, septicemia and other types of shock.
- Be able to maintain patient air-way and resuscitate; a critically injured patient.
- Monitor patients of head, chest, spinal and abdominal injuries, both in adults and children.
- Provide primary care for a patient of burns.
- Acquire principles of operative surgery, including pre-operative, operative and post operative careand monitoring.
- Treat open wounds including preventive measures against tetanus and gas gangrene.
- Diagnose neonatal and pediatric surgical emergencies and provide sound primary care before referring the patient to secondary/tertiary center
- Identify congenital anomalies and refer them for appropriate management.

In addition to the skills referred above in items, he shall have observed/assisted/performed the Following:

- Incision and drainage of abscess in a simulated environment:
- Suturing in a simulated environment
- Observe blood transfusion in a simulated environment
- Demonstrate techniques of asepsis in a simulated environment
- Observe common surgical procedures emergency & life-saving procedures.

Attitude and communication

- Communication with empathy to patients & patient's attenders
- To counsel & obtain informed consent from patient & patients attenders

Integration

The undergraduate teaching in surgery shall be aligned and integrated horizontally and vertically inorder to provide a sound biologic basis and a holistic approach to the care of the surgical patient.

Orthopedics

Knowledge

At the end of the course, the student should be able to:

- Acquire a broad based knowledge of injuries and disorders affecting the musculoskeletal system and its relevance in the overall treatment and rehabilitation programme.
- Recognize fractures, dislocations, injuries to ligaments, muscles and peripheral nerves.
- Recognize life threatening and limb threatening injuries and plan their primary management.
- Identify congenital anomalies involving the musculoskeletal system their genetic back ground, prognosis and broad principles of management.
- Evolve a clear understanding of the nature of infections involving bone and joints to appreciate the importance of their early recognition and treatment.
- Recognize metabolic bone disease and endocrinological anomalies as it applies to the musculo skeletal system.
- Recognize the nature, principles of investigations and management of degenerative diseases and rheumatologic conditions. Broad principles of rehabilitation and reconstructive surgery shall be introduced during the lectures.
- Recognize neoplasms involving the musculo-skeletal system, their behavior, prognosis and current methods or treatment.
- Develop a sound understanding of widely prevalent conditions in the community such as tuberculosis, poliomyelitis and leprosy and their impact in orthopedic practice.
- Develop understanding of the imaging modalities available today; their indications, advantages and disadvantages.

Skills:

At the end of the course, the student should be able to:

- Perform correct application of bandages.
- Perform application of different types of splints for fractures, sprains and otherpainful affections.
- Perform application of plaster casts and slabs.
- Perform aseptic and non touch techniques of dressing of wounds.
- Perform application of skin traction.
- Provide proper Care of an acutely injured patient, resuscitation methods and first aid measures.

Attitude and communication

- Communication with empathy to patients & patient's attenders.
- To counsel & obtain informed consent from patient & patients attenders.

Integration

The teaching should be aligned and integrated horizontally and vertically in order to allow the student to understand the structural basis of orthopedic problems, their management and correlation with function, rehabilitation and quality of life.

Anesthesiology

Knowledge:

At the end of the course, the student should be able to:

- Describe the evolution of Anesthesiology as a modern specialty.
- Describe the roles of Anesthesiologist in the medical profession.
- Understand the stepwise algorithm approach of BLS and ACLS.
- Describe the principles of preoperative evaluation.
- Observe and describe the principles and the practical aspects of induction and maintenance of anesthesia.
- Describe and discuss the pharmacology of drugs used in induction and maintenance of generalanesthesia.
- Describe the principles of fluid therapy in the preoperative period.
- Describe the principles of monitoring and resuscitation in the recovery room.
- Enumerate and describe the criteria for admission and discharge of a patient to an ICU.
- Describe principles of providing post-operative pain relief and management of chronic pain.

Skills

At the end of the course, the student should be able to:

• Observe Pre-anesthetic checkup and prescribe pre-anesthetic medications.

- Demonstrate Venipuncture and set up intravenous drip in a simulated environment.
- Observe Laryngoscopy and endotracheal intubation.
- Observe Lumbar puncture, spinal anesthesia and simple nerve blocks.
- Demonstrate Simple general anesthetic procedures under supervision in a simulated environment.
- Observe monitoring of patients during anesthesia and in the post-operative period.
- Observe maintenance of anesthetic records.
- Observe cardio-pulmonary resuscitation including recognition of cardiac arrest.
- Demonstrate Counseling and advice regarding various methods of anesthesia in a simulated environment.
- Observe Anesthesia for major and minor surgical and other procedures.

Attitude and communication

- Communication with empathy to patients & patient's attenders.
- To counsel & obtain informed consent from patient & patients attenders.

Integration:

The undergraduate teaching in Anesthesia shall be aligned and integrated horizontally and vertically inorder to provide a sound biologic basis and a holistic approach to the care of the surgical patient.

SYLLABUS

Reference:

Medical Council of India, Competency Based Undergraduate Curriculum for the Indian Medical Graduate, 2018. Volume 3 ; General Surgery Pg 41-55 , OrthopedicsPg130-137 ; AnaesthesiaPg145-151 ; Dentistry Pg 163-164; Radio Therapy Pg 160-161; Radio Diagnosis Pg 154-155

COMPETENCY NO+A1A1:G39	ΤΟΡΙϹ	LECTURE(HRS)	SDL(HRS)	SGL(HRS)	INTEGRATION	TOTAL HOURS
Topic : Transplant	ation					
SU13.1	Describe the immunological basis of organ transplantation	1		2		3
SU13.2	Discuss the Principles of immunosuppressive therapy.Enumerate Indications, describe surgical principles, management of organ transplantation	1		2		3
SU13.3	Discuss the legal and ethical issues concerning organ donation	1		5		6
SU13.4	Counsel patients and relatives on organ donation in a simulated environment	1	3	5		9
Topic: Basic Surgical Skills						
SU14.1	Describe Aseptic techniques, sterilization and disinfection.	1		1		2
SU14.2	Describe Surgical approaches, incisions and the use of appropriate instruments in Surgery in general.	2		2		4
SU14.3	Describe the materials and methods used for surgical	1		2		3

	wound closure and anastomosis (sutures, knots				
	and needles)				
SU14.4	Demonstrate the techniques of asepsis and suturing in a simulated environment		5	5	10
Topic: Biohazard disposal					
SU15.1	Describe classification of hospital waste and appropriate methods of disposal.	1		2	3
Topic: Minimally ir	nvasive General Surgery				
SU16.1	Minimally invasive General Surgery: Describe indications advantages and disadvantages of Minimally invasive General Surgery	1		2	3
Topic: Trauma					
SU17.1	Describe the Principles of first aid	1		2	3
SU17.2	Demonstrate the steps in Basic Life Support. Transport of injured patient in a simulated environment	1	5	5	11
SU17.3	Describe the Principles in management of mass casualties	1	1	3	5
SU17.4	Describe Pathophysiology, mechanism of head injuries	1		1	2
SU17.5	Describe clinical features for neurological assessment	1		1	2

	and GCS in head injuries				
SU17.6	Chose appropriate investigations and discuss the principles of management of head injuries	1		1	2
SU17.7	Describe the clinical features of soft tissue injuries. Chose appropriate investigations and discuss the principles of management.	1		1	2
SU17.8	Describe the pathophysiology of chest injuries.	1		1	2
SU17.9	Describe the clinical features and principles of management of chest injuries.	1		1	2
SU17.10	Demonstrate Airway maintenance. Recognize and manage tension pneumothorax, hemothorax and flail chest in simulated environment.		3	5	8
Topic: Pancreas					
SU24.1	Describe the clinical features, principles of investigation, prognosis and management of pancreatitis.	1		1	2
SU24.2	Describe the clinical features, principles of investigation, prognosis	1		1	2

	and management of pancreatic endocrine tumours				
SU24.3	Describe the principles of investigation and management of Pancreatic disorders including pancreatitis and endocrine tumors.	1		1	2
Topic : Breast					
SU25.1	Describe applied anatomy and appropriate investigations for breast disease	1	2	2	5
SU25.2	Describe the etiopathogenesis, clinical features and principles of management of benign breast disease including infections of the breast	1		2	3
SU25.3	Describe the etiopathogenesis, clinical features, Investigations and principles of treatment of benign and malignant tumours of breast.	1		2	3
SU25.4	Counsel the patient and obtain informed consent for treatment of malignant conditions of the breast		3	4	7
SU25.5	Demonstrate the correct technique to palpate the breast for breast swelling in a mannequin or equivalent		3	2	5

Topic: Cardio-the	oracic General Surgery- Chest -				
Heart and Lungs					
SU26.1	Outline the role of surgery in the management of coronary heart disease, valvular heart diseases and congenital heart diseases	2		1	3
SU26.3	Describe the clinical features of mediastinal diseases and the principles of management	1		1	2
SU26.4	Describe the etiology, pathogenesis, clinical features of tumors of lung and the principles of management	1		1	2
Topic : Abdomer	ı				
SU28.1	Describe pathophysiology, clinical features, Investigations and principles of management of Hernias	1	2	2	5
SU28.2	Demonstrate the correct technique to examine the patient with hernia and identify different types of hernias.	1		2	3
SU28.3	Describe causes, clinical features, complications and principles of mangament of peritonitis	1		3	4
SU28.4	Describe pathophysiology, clinical features, investigations and	2		3	5

1	principles of management				
	of Intra-abdominal abscess,				
	mesenteric cyst, and				
	retroperitoneal tumors				
	Describe the applied				
SU28.5	Anatomy and physiology of	1	2	2	5
	esophagus				
	Describe the clinical				
	features, investigations and				
SU28.6	principles of management	1		1	2
	of benign and malignant				
	disorders of esophagus				
	Describe the applied				
SU28.7	anatomy and physiology of	1	2	2	5
	stomach				
	Describe and discuss the				
	aetiology, the clinical				
	features, investigations and				
SU28.8	principles of management	3		4	7
5020.0	of congenital hypertrophic	5		-	,
	pyloric stenosis, Peptic				
	ulcer disease, Carcinoma				
	stomach				
	Demonstrate the correct				
SU28.9	technique of examination		3	1	4
5020.5	of a patient with disorders		5	-	-
	of the stomach				
	Describe the applied				
	anatomy of liver. Describe				
	the clinical features,				
SU28.10	Investigations and	4	2	4	10
0020.10	principles of management		-		
	of liver abscess, hydatid				
	disease, injuries and				
	tumors of the liver				

SU28.11	Describe the applied anatomy of spleen. Describe the clinical features, investigations and principles of management of splenic injuries. Describe the post-splenectomy sepsis - prophylaxis	3	2	2	7
SU28.12	Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system	2	2	1	5
SU28.13	Describe the applied anatomy of small and large intestine	2	2	2	6
SU28.14	Describe the clinical features, investigations and principles of management of disorders of small and large intestine including neonatal obstruction and Short gut syndrome	2		1	3
SU28.15	Describe the clinical features, investigations and principles of management of diseases of Appendix including appendicitis and its complications.	2		1	3
SU28.16	Describe applied anatomy including congenital anomalies of the rectum and anal canal	2	2	2	6

SU28.17	Describe the clinical features, investigations and principles of management of common anorectal diseases	2		1	3
SU28.18	Describe and demonstrate clinical examination of abdomen. Order relevant investigations. Describe and discuss appropriate treatment plan	2		2	4
Topic : Urinary sys	tem				
SU29.1	Describe the causes, investigations and principles of management of Hematuria	2		2	4
SU29.2	Describe the clinical features, investigations and principles of management of congenital anomalies of genitourinary system	2	2	2	6
SU29.3	Describe the Clinical features, Investigations and principles of management of urinary tract infections	1		2	3
SU29.4	Describe the clinical features, investigations and principles of management of hydronephrosis	1		2	3
SU29.5	Describe the clinical features,investigations and principles of management of renal calculi	1		2	3
SU29.6	Describe the clinical	1		2	3

	features, investigations and				
	principles of management				
	of renal tumours				
	Describe the principles of				
SU29.7	management of acute and	1		2	3
	chronic retention of urine				
	Describe the clinical				
SU 20 9	features, investigations and	1		2	2
SU29.8	principles of management	1		2	3
	of bladder cancer				
	Describe the clinical				
SU29.9	features, investigations and	1		2	3
3029.9	principles of management	1		2	5
	of disorders of prostate				
	Demonstrate a digital rectal				
SU29.10	examination of the prostate		4	4	8
5029.10	in a mannequin or		4	4	0
	equivalent				
	Describe clinical features,				
SU29.11	investigations and	1		2	3
5029.11	management of urethral	1		2	5
	strictures				
Topic : Penis, Testis	and Scrotum				
	Describe the clinical				
	features, investigations and				
SU30.1	principles of management	2		2	4
	of phimosis, paraphimosis				
	and carcinoma penis.				
	Describe the applied				
	anatomy clinical features,				
SU30.2	investigations and	1		2	3
	principles of management				
	of undescended testis.				
SU30.3	Describe the applied	1		2	3

	anatomy clinical features, investigations and principles of management			
	of epidydimo-orchitis			
SU30.4	Describe the applied			
	anatomy clinical features,			
	investigations and	1	2	3
	principles of management			
	of varicocele			
SU30.5	Describe the applied			
	anatomy, clinical features,			
	investigations and	1	2	3
	principles of management			
	of Hydrocele			
SU30.6	Describe classification,			
	clinical features,			
	investigations and	1	2	3
	principles of management			
	of tumours of testis			

LECTURES = 80 HRS

SDL = 40 HRS

SGL = 140 HRS

TOTAL = 260 HRS

ASSESSMENT

INTERNAL ASSESSMENT

Final MBBS Year 3, Part II

S N o	R ol l N o.	Name of Stude nt	Forma Theor		ssessment	Continuo	ous Internal	Assess	ment T	`heory		Total
			1 st PCT The ory	2 nd PCT The ory	Prelims Theory (Paper 1 and Paper 2)	Home Assign ment	Continu ous Class Test (LMS)	Sem inar	Mus eum Stud y	Library Assignm ents	Atte nda nce The ory	
Р								Self D	Directed	Learning		
			100	100	200	15	30	15	15	15	10	500

Professor & Head: Department of General surgery Name of Institute: SVIMS-SPMCW.

> **Note**: As per new guidelines under Assessment module mentioned above, Internal Assessment marks will not be added to Final Summative University Examination but will be shown as a separate head under the Subject.

Final MBBS, Part II

S	Rol	Nam	Formati	ve Assessi	ment	Continuou	s Intern	al Assessr	nent (Pi	ractical)		Tota
	1	e of	Theory									1
Ν	No	Stud										
0	•	ent	. at	and			(г. —	
			1 st	2 nd	Prelims	Log Book	(200)			Journal	Atte	
			PCT	PCT	Practica					(Record	ndan	
			Practi	Practica	1					book/	ce	
			cal /	1/						Portfoli	(Pra	
			First	Second						0)	ctica	
			Ward	Ward							1)	
			Leavi	Leavin								
			ng	g								
			Exami	Examin								
			nation	ation								
						Certifiab	AET	SVL	Rese			
						le Skill	CO	Lab	arch			
						based	Μ	Activit				
						Compete	Com	У				
						ncies	pete					
						(through	ncie					
						OSPE/O	S					
						SCE/Spo						
						ts/						
						Exercise/						
						Other)						
			100	100	200	100	40	40	20	40	10	650

Professor & Head: Department of _____ Name of Institute:

> **Note**: As per new guidelines under Assessment module mentioned above, Internal Assessment marks will not be added to Final Summative University Examination but will be shown as a separate head under the Subject.

Eligibility to appear for University Examination:-

Attendance Eligibility	75% in theory and 80% in practical in each subject and in eachprofessional year
Internal Assessment	Learners must secure at least 50% marks of the total marks (combined in theory and practical / clinical; not less than 40 % marks in theory and practical separately)

Theory Examination

Theory examination consists of two papers (Paper I & II). Each Theory paper will have 100 marks

Question paper pattern -Paper-I

Theory question paper pattern for 100 marks for a duration of 3 hours

MCQ (15 Direct & 5 Case Based):	20 X 1	= 20 marks (General Surgery)
Long Answer Question: Direct/Case Based Essay:	2 X 15	= 30 marks
Short Answer Question (SAQ):	10 X 5	= 50 marks

MODEL PAPER – 1

•	SRI VENKATESWARA INSTITUTE OF MEDICAL SCIE UNIVERSITY EXAMINATIONS - 3 rd MBBS (FINAL	NCES, TIRUP .) PART - II	ATI
		hours (includir	ng MCQs)
	e: 5403 mum Marka: 100 (Descriptive 80 marks 8 MCOs 20 marks)		
waxi	mum Marks: 100 (Descriptive 80 marks & MCQs 20 marks)		
	uctions to: A) Answer all questions. Draw diagrammatic repres	sentation wher	ever
	ssary. tudents B) The time limit for MCQs is 20 minutes.		
uie s	C) Question number 13 (MCQs 1 to 20) to be answ	ered at first 20	minutes in the
	OMR sheet given separately.		
			0 45 00 M
Ι.	Write essays on <u>all of the following:</u>		2x15=30 M
1	An adult met with an accident and on arrival to casualty his E		nmHg
	with left lower rib fractures with left hypochondriac tendernes a) What is your diagnosis	s (3+2)	
	b) How will you manage this case	(5)	
	c) What are the vaccinations for splenectomy surgery	(5)	
2	A lady presented to you with a breast lump of size 5x4 cm wi	th skin ulcerati	on
	 a) What is your diagnosis with TNM staging 	(5)	
	b) How will you investigate the patient.c) Briefly outline the management	(5) (5)	
	c) blieny outline the management	(3)	
П.	Write short notes on all of the following:		10x5= 50 M
3)	Complications of blood transfusion.		
	and the second		
4)	Wallace's rule of nine in burns.		
5)	Advantages of minimal Invasive surgeries		
2011			
6)	Massive blood transfusion		
7)	Describe principles of FIRST AID.		
	Closelfy skip tymers and describe in brief treatment of melon	1	
8)	Classify skin tumors and describe in brief treatment of melan	und.	
9)	Cleft lip types and timing of repair.		

10) Frey's syndrome

	SRI VENKATESWARA INSTITU	- 2 - TE OF MEDICAL SCIENCES, TIRUPATI
		NS - 3 rd MBBS (FINAL) PART - II
		ice questions (MCQs)
	ber: General Surgery Paper – I Time: le: 5403	20 minutes Date: 06.05.2024 Marks: 20x1=20 M
		blue or black pen. No negative marks for MCQs. ne OMR Sheet. Follow the instructions given s in the main answer script.
		be returned after the stipulated time.
1	All the following are included in SIRS det	
	A) Temperature >38 C C) Respiratory rates <20 breaths/min	B) Heart rate >90beats/min D)WBC counts >12000 or 4000.
2	A graft taken from an identical twin is	
	A)Auto graft C) Isograft	B) Allograft D) Xenograft
3	In a patient with frost bite what is the terr	the second s
	recover the patient. A) 37C	B) 42C
	C) 48C	D) 52C
4	•	fection in clean contaminated wound with
	A)1% C) 6%	B) 3% D) 7%
5	Suture Used for bile duct surgery A) polyglactin	B) catgut
-	C)polypropylene	D) silk
6		presents with involvement of face, anterior s circumferentially .calculate the fluid to be
	A) 5.4L	B) 6.5L
	C) 7L	D) 10.8L
7	A patient is admitted to emergency depa painful stimulus, localizes pain and prod be his Glasgow coma scale.	artment with head injury. He opens eyes to ucesIncomprehensible sounds. What would
_	A) 13 C) 7	B) 9 D) 6
8	Shrugging of shoulder following neck su A) spinal accessory nerve C) Bells nerve	rgery due to injury to B) thoracodorsal nerve D)Vagus nerve
9	Cervical rib passes between A) Scalenus anterior and medius C)Clavicle and 1 rib	B) Scaleneus medius and posterior D)Scalenus posterior and vertebra
10	Most common site for Curling ulcer is A) Stomach	B) 1 part of duodenum
	C) 2 part of duodenum	D)junction between 2 & 3 duodenum.

Contd..

		- 3 -
11	Hernia not related to abdominal wall	
	A) Amyaud hernia	B)Richter's hernia
	C) Littre hernia	D) Peterson hernia
12	Burns percentage is calculated by	
12	A) Palm rule	B) Lund rule
	C)Wallace rule	D) Parkland formula
13	Lymphoma staging by	
	A) Ann arbor staging	 B) Cotswold staging
	C) Lugano staging	D) Nesbitt staging
14	Early sign of compartment syndrome is	
	A) pain	B) Dry gangrene
	C) parasthesia	D) pallor
15	In hypovolemic shock which organ shoul	d be assessed for determine under perfusion
	A)kidney	B) heart
	C) lung	D) liver
16	Seat belt injury leads to	
	A) splenic laceration	B) splenic contusion
	C) Gut ischemia	D)mesenteric adenitis.
47	Which of the following is not accounted by	FACTUCO
17	Which of the following is not scanned by	
	A) pericardium	B) pleural cavity
	C) spleen	D) liver
18	Most common oral cancers are	
	A) Squamous cell ca	B) Adeno ca
	C)Transitional cell ca	D)Mucoepidermoid ca
19	Cellulitis is	
	A)Non suppurative and non-invasive	 B) suppurative and non-invasive
	C) Non suppurative and invasive	D) Suppurative and invasive
20	with vehicle, investigation of choice should	
	A) CECT	B) MRI
	C) NCCT	D) PET CT
		* * *

Question paper pattern - Paper-II

Theory question paper pattern for 100 marks for a duration of 3 hours

MCQ (15 Direct & 5 Case Based): 15 mcq's - General surgery, 5 mcq's - orthopaedics	20 X 1	= 20 marks
Section A (General Surgery)		
Long Answer Question:	1 X 15	= 15 marks
Direct/Case Based Essay Short Answer Question (SAQ)	5 X 5	= 25 marks
Section B		
(Orthopedics, Anesthesiology, Radiodiagnosis, Radiotherapy, Dentistry & General Surgery)		
Long Answer Question: Direct/Case Based	1 X 15	= 15 marks
Essay- ortho	5 X 5	= 25 marks
Short Answer Question (SAQ)- Orthopedics(1 question), Anesthesiology, Radiodiagnosis, Radiotherapy, Dentistry & General Surgery		

	Section- A (40 Marks)	
I. W	rite essays on all of the following :	1x15=15 N
1)	A 40 year lady presented to you with epigastric mass and left supraclavicul	lar
	node a) what is your diagnosis with TNM staging b) How will you investigate	(5) (5)
	c) Outline the treatment if left supraclavicular node positive for FNACd) Outline treatment if left supraclavicular node is negative for FNAC	(2) (3)
II.	Write short notes on <u>all</u> of the following:	5x5=25 M
2)	Skin grafting types and uses.	
3)	Pneumothorax causes, diagnosis and treatment.	
4)	Venous gangrene	
5)	Pseudo cyst of pancreas	
6)	Intravenous pyelogram (Urogram)	
	<u>Section-B (20 Marks)</u> (Anesthesiology, Radiodiagnosis, Dentistry, Radiotherapy)	
ш.	Write short notes on <u>all</u> of the following:	4x5=20 M
7)	Epidural anesthesia	
8)	Mammogram	
9)	Brachytherapy	
10)	Enumerate the parts of tooth	
10)		
III. V	<u>Section-C (20 Marks) - Orthopedics</u> Vrite essays on <u>all</u> of the following :	1x15=15 M
11)	Describe the etiopathogenesis, clinical features, investigation and principle management of rickets	es of
IV.	Write short notes on <u>all</u> of the following:	1x5=5 M
12)	Diagnosis and management of Pott's spine	
	* * *	

Does of the students b) Answer all questions with blue or black pen. No negative marks for MCQs. the students B) Answers to be darken in the OMR Sheet. Follow the instructions given in OMR sheet C) Do not write MCQ answers in the main answer script. D) The MCQs OMR sheet to be returned after the stipulated time. 1 A smoker patient presents with abdominal aortic aneurysm with diameter of 44mm with nonspecific abdominal pain . what is the ideal answer below A) Inmediately operate B) Operate when size becomes >55mm diameter. C) Serial USG until size becomes 77mm D) No treatment needed. 2 Most common functioning Neuroendocrine tumor of pancreas A) Insulinoma B) Gastrinoma C) Glucogonoma D) Pporma 3 Most common mediastinal tumor of chest is A) Thymoma B) Squamous cell carcinoma C) basal cell cancer D) Verrucous cancer. 5 What to look for in the liver abscess wall on pathological examination A) Cyst B) prophylactic antibiotics C) PPI D) Ocertide 7 All are radio opaque stone except A) Uric acid B) rophylactic antibiotics C) PPI D) Acalate D) cysteine D) ataghom 8		er: General Surgery Paper – II Time : 20	0 minutes Date : 08.05.2024 Marks: 20x1=20 M
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A)Chemotherapy B) surgery C) Radiation D) Chemo radiation 10 True about crohn's disease except A)Recurrence is more common B) Rectum is involved C) Fissures are formed D) Tran mural	8	A) Murphy's sign	B) Macburney' s sign
A)Recurrence is more commonB) Rectum is involvedC) Fissures are formedD) Tran mural	9	A)Chemotherapy	
Contd	10	A)Recurrence is more common	
			Contd

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		- 3 -
11	Laparoscopy pressure that should be set	in children during surgery
	A) 2-6mmHg	B) 8-12mmHg
	C) 14-16mmHg	D) 20-24mmHg.
12	Radiofrequency ablation is	
	A) Derived from AC current	 B) Used to separate facial planes during surgery
	C) uses microwave	D) Used for hemostasis
13	Hiltons method is used for	
	A) To minimize the scar	B) to prevent injury to vital structures
	C) to have complete drainage	D) to drain large disease
14	A8 yr old child has fever with pain and sw appearance. Histopathology shows small diagnosis is?	elling in mid thigh. X Ray reveals lamellated round cell tumor positive for MIC-2. The
	A) Osteosarcoma	B) Ewing's Sarcoma
	C) Chondroblastoma	D) Multiple myeloma
15	Wrist drop is seen in lesion of which Peri	pheral nerve?
	A) Radial nerve	B) Median nerve
	C) Ulnar nerve	D) Posteriorinterosseus nerve
16	Ankylosing spondylitis is associated with:	
	A) HLA-B27	B) HLA-B8
	C) HLA - DW4/DR4	D) HLA - DR3
17	Ortolani's test is done for	
	A) Perthes' disease	B) Dislocation patella
	C) Meniscal injury of knee joint	D) Congenital dislocation hip
18	Bouchard's nodes are seen in:	
	A) Osteoarthritis of the distal	 B) Osteoarthritis of the proximal
	interphalangeal joints	interphalangeal joints
	C) Rheumatoid arthritis of the 1 st carpometacarpal joint	D) Rheumatoid arthritis of the distal interphalangeal joints
19	Bankart lesion involves	
10	A) Anterior aspect of head of humerus	B) Anterior aspect of glenoid labrum
	C) Posterior aspect of glenoid labrum	D) Posterior aspect of head of humerus
20		with dislocation of the radial head is called?
	A) Galeazzi fracture	B) Smith's fracture
	C) Monteggia fracture	D) Chance fracture

	Maxim um Marks	Passing minimum ineach component	Passing Criteria (Theory & Practical)
Theory (Paper I & Paper II)	200	100 (40% marks in each of the papers with minimum ????50% of marks in aggregate both papers together)	200 [Mandatory 50% marks in theory and practical separately (practical = practical/
Practica l's + viva	200 (100+1 00)	100 (Minimum 50 % inpractical / Viva)	clinical + viva) [theory=theory paper(s) only]

There shall be no grace marks to be considered for passing in an examination.

<u>Syllabus</u>

General Surgery Paper I

Unit 1	Topic :Metabolic response to injury					
Unit 2	Topic : Shock					
Unit 3	Topic :Blood and blood components					
Unit 4	Topic :Burns					
Unit5	Topic :Wound healing and wound care					
Unit 6	Topic :Surgical infections					
Unit 7	Topic :Surgical Audit and Research					
Unit 8	Topic :Ethics					
Unit 12	Topic :Nutrition and fluid therapy					
Unit 14	Topic : Basic Surgical Skills					
Unit 15	Topic :Biohazard disposal					
Unit 16	Topic : Minimally invasive General Surgery					
Unit 17	Topic :Trauma					
Unit 18	Topic :Skin and subcutaneous tissue					
Unit 19	Topic :Developmental anomalies of face, mouth and jaws					
Unit 20	Topic :Oropharyngeal cancer					
Unit 21	Topic :Disorders of salivary glands					
Unit 22	Topic :Endocrine General Surgery: Thyroid and parathyroid					
Unit 23	Topic: Adrenal glands					
Unit 25	Topic: Breast					

GENERAL SURGERY PAPER II

Unit 13	Topic :Transplantation
Unit24	Topic Pancreas
Unit 26	Topic Cardio-thoracic General Surgery- Chest - Heart and Lungs
Unit 27	Topic Vascular diseases
Unit 28	Topic Abdomen
Unit 29	Topic Urinary System
Unit30	Topic Penis, Testis and scrotum

AETCOM MODULE :

4.4 A	Demonstrate empathy in patient encounters
4.4 B	Communicate care options to patient and family with terminal illness in simulated environment
4.5	Identify discuss and defend medicolegal, sociocultural, professional and ethical issues in physician industry relationships
4.6	Conflicts of interest in patient care and professional relationships and decribe correct response to these conflicts

Orthopedics, Anesthesiology, Radio diagnosis, Dentistry, Radiotherapy

Unit 10	Topic :Pre, intra and post- operative management & Anaesthesiology
Unit 11	Topic :Anesthesia and pain management & Anaesthesiology
Anesthesiology Unit -1 to Unit -10	Topic: Anaesthesiology
Orthopedics Unit-1 to Unit -14	Topic: Orthopedics
Radiodiagnosis Unit -1	Topic: Radiodiagnosis
Radiotherapy Unit -1 to Unit -5	Topic: Radiotherapy
Dentistry Unit -1 to Unit -5	Topic: Dentistry

S.No	Торіс	No.Of MCQ'S	Weightage in percentage %	LAQ	SAQ
1	Unit 1 Metabolic response to injury Unit 2 Blood and blood components	3	15-25	~	\checkmark
	Unit 4 Burns Unit 5 Wound healing and wound care	3	15-25		
2	Unit 6 Surgical infections Unit 7 Surgical Audit and Research				\checkmark
	Unit 8 Ethics & Unit 12 Nutrition and fluid therapy				
3	Unit 14 Basic Surgical Skills Unit 15 Biohazard disposal Unit 16 Minimally invasive General Surgery	5	Oct-20	✓	\checkmark
	Unit 17 Trauma Unit 18 Skin and subcutaneous				
4	Unit 19 Developmental anomalies of face, mouth and Jaws	4	Oct-20		✓
7	Unit 20 Oropharyngeal cancer Unit 21 Disorders of salivary glands	-	000-20		
	Unit 22 Endocrinone : Thyroid and Parathyroid				
5	Unit 23 Adrenal glands Unit 25 Breast Unit k Metabolic response to injury	5	25-35	~	V
6	AETCOM		5		✓

Topics and marks distribution matrix for PAPER – I

General surgery (100Marks) (15 Direct & 5 Case based = 20 MCQ, 2 Long Essay, 10 Short Essay)

Topics and marks distribution matrix for PAPER II SECTION- A General Surgery - 50 Marks

S. No	TOPICS	No. of MCQs	Weightage in %	LAQ	SAQ
1	Unit 13 - Transplantation				✓
2	Unit 26- Cardio-thoracic Surgery- Chest – Heart and Lungs	1	10-25		✓
3	Unit 27 Vascular diseases			√	√
4	Unit 24-Pancreas Unit 28Abdomen	6	10-25	✓	✓
F	Unit 29- Urinary System	2	10.25	√	v
5	UNIT 30- Penis Testis andscrotum	3	10-25		•

SECTION B

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Orthopedics, Anesthesiology, Radio diagnosis, Radiotherapy, Dentistry – 50 marks

S. No	TOPICS	No. of MCQs	Weightage in %	LAQ	SAQ
	UNIT-10- Pre, intra and post- operative management				
1	UNIT-11 Anesthesia and pain management	3	Oct-20		✓
2	Topic : Radio diagnosis				✓
3	Topic: Radiotherapy				\checkmark
4	Topic : Dentistry				\checkmark
5	Topic: Orthopaedics	7	20-30	~	~

Practical Syllabus for University Clinical Exam

LONG CASE	SHORT CASE	OSCE	VIVA
Thyroid	Ulcer foot	· X-Rays	
Breast cancer	Subcutaneous swelling	· Instrument	
Varicose vein	Skin malignancy	· Specimens	
Peripheral vascular disease	Soft tissue sarcoma		
Gastric outlet obstruction	Hydrocele		
Obstructive jaundice	Cervical lymphnode swelling		
Inguinal hernia	Thyroglossal cyst		
Right hypochondrial Mass	Parotid swelling		
Splenomegaly	Submandibular salivary gland swelling		Operative Surgery
Renal cell Carcinoma	Oral cavity malignancy		
Right Iliac Fossa Mass	Penile carcinoma		
Left Iliac Fossa Mass	Testicular tumours		
	Orthopaedics		
	Osteoarthritis knee joint		
	 Non union of long bones 		
Hypogastric	Mal Union of long bones		
Mass	Chronic osteomyelitis		
	 Synovitis of knee joint 		
	 Inflammatory Poly arthritis 		

	 Inter vertebral disc prolapse with deficit 	
	 Congenital Talipes EquinoVarus 	
	 Post polio foot and ankle deformities 	
	 Post traumatic joint contractures 	
Epigastric Mass	 Peripheral nerve injury (median, ulnar, radial, brachial plexus and 	
	common peroneal nerve)	

Distribution of Marks for Practical Examinations

Practical examination will be conducted under heads of Practical examination and Viva Voce.

Practical Examination (150 marks)				
LONG CASE	1 X 75 = 75			
SHORT CASE (3 CASES) – (2- Surgery Cases + 1- Orthopedics case)	3 X 25 = 75			
OSCE – STATIONS	30			
X-RAYS				
INSTRUMENT	5			
SPECIMENS	5			
	5			
VIVA Examination OPERATIVE SURGERY	5			
TOTAL MARKS = 200				

marks

RECOMMENDED BOOKS:

Textbooks: General Surgery

S. No	Name of Book	Author(s)	Edition	Publishers
1	Bailey & Love's Short Practice of Surgery	,	28th Edition	CRC Press
2	Manipal Manual of Surgery	K.R Shenoy	4 th 1 edition	CBS Publishers & Distributors
3	SRB's Manual of Surgery	SriramBhat Paperback Bunko	7th edition	Jaypee Brothers Medical Publishers
4	Manual On Clinical Surgery	Das S	16th edition	Author Self
5	Hamilton Bailey's Physical Signs: Demonstrations of Physical Signs in Clinical Surgery,	John S.P Lumley, Anil K. D'Cruz , Jamal J. Hoballah, Carol	19th Edition	CRC Press
		E.H. Scott-Connor		
6	Browse's – introduction to the symptoms and signs of surgical disease	Kevin.G.Burnand	5 th edition	CRC Press

Textbooks: Orthopedics

S. No	Name of Book	Author(s)	Edition	Publishers
1.	Outline of Orthopedics	Crawford JohnAdams	13th edition	Churchill Livingstone
2.	Outline of fractures	Crawford John Adams	12 th edition	Churchill Livingstone
3.	Textbook of Orthopedics	Mayilvahana n Natarajan	8th edition	Wolters Kluwer
4.	System of Orthopedics	Graham Apley	edition	CRC press
5.	Mercer's Orthopedic Surgery	Robert B Duthie and George Bentley	9th edition	Arnold
6.	Bailey & Love's Short Practice ofSurgery	Norman Williams, P Ronan O'Connell, Andrew McCaskie	27th edition	CRC Press

Textbooks: Anesthesiology

S. No	Name of Book	Author(s)	Edition	Publishers
1.	Lee's Synopsis of Anesthesia	Rushman and Davies	12th	Elsevier
2.	Clinical Anesthesiology by Morgan	JohnF.Butterwort h IV, David C. Mackey,	7th	Lange
3.	ICU Book, Paul Marino	Paul L Marino	4th	Wolters Kluwer
4.	Miller's Anesthesia	Ronald Miller LarsEriksson	8th	Elsevier
5.	Clinical Anesthesia by Barash, Cullen and Stoelting	BruceF Cullen , Rober Stoelting Paul G Barash	5th	Lippincott, Williams andWilkins

Textbooks: Radio diagnosis

S. No	Name of Book	Author(s)	Edition	Publishers
1	Radiology and imaging for medical students.	David Sutton	7th	Churchill Livingstone
2	Textbook of Radiology and Imaging	David Sutton	7th	Churchill Livingstone
3	Diagnostic Radiology – A textbook of medical imaging.	Grainger & Allison's	6th	Churchill Livingstone ELSEVIER
4	Diagnostic Ultrasound	Carol.MRumack	5th	ELSEVIER

Textbooks: Radiotherapy

S. No	Name of Book	Author(s)	Edition	Publishers
1	Bailey & Love's Short Practice of Surgery	Norman Williams, P Ronan O'Connell, Andrew McCaskie	27th Edition	CRC Press
2	Manipal Manual of Surgery	K.R Shenoy	4th edition	CBS Publishers & Distributors
3	SRB's Manual of Surgery	Sriram Bhat Paperback Bunko	6th edition	Jaypee Brothers Medical Publishers

Textbook: Dentistry

S. No	Name of Book	Author(s)	Edition	Publishers
1	Bailey & Love's Short Practice of Surgery	Norman Williams, P Ronan O'Connell, Andrew McCaskie	27th Edition	CRC Press
2	Manipal Manual of Surgery	K.R Shenoy	4th edition	CBS Publishers & Distributors
3	SRB's Manual of Surgery	Sriram Bhat Paperback Bunko	6th edition	Jaypee Brothers Medical Publishers

INTERNSHIP

Name of the program: MBBS

Name of the subject / Course: Internship

Year of revision: 2019

GOAL: The goal of the internship programme is to train medical students to fulfill their roles as doctors of first contact in the community.

OBJECTIVES: At the end of the internship period, the medical graduate will possess all competencies required of an Indian Medical Graduate, namely:

- Independently provide preventive, promotive, curative and palliative care with compassion,
- Function as leader and member of the health care team and health system,
- Communicate effectively with patients, families, colleagues and the community,
- Be certified in diagnostic and therapeutic skills in different disciplines of medicine taught in the undergraduate programme.
- Be a lifelong learner committed to continuous improvement of skills and knowledge,
- Be a professional committed to excellence and is ethical, responsive and accountable to patients, community and profession.

Time Distribution

General Surgery including 15 days Anaesthesia	2months

ASSESSMENT

 The intern shall maintain a record of work in a log book, which is to be verified and certified by the medical officer under whom he/she works. Apart from scrutiny of the record of work, assessment and evaluation of training shall be undertaken by an objective approach using situation tests in knowledge, skills and attitude during and at the end of the training.

- Based on the record of work and objective assessment at the end of each posting, the Dean/Principal shall issue cumulative certificate of satisfactory completion of training at the end of internship, following which the University shall award the MBBS degree or declare him eligible for it.
- Full registration shall only be given by the State Medical Council/Medical Council of India on the award of the MBBS degree by the University or its declaration that the candidate is eligible for it.

Internship – Competencies – Discipline Related

Name of the subject / Course: Department of General Surgery / Internship

Course code: GES351

GOAL: The aim of teaching the undergraduate student in General Surgery is to impart such knowledge and skills that may enable him to diagnose and treat common surgical ailments. He/she shall have ability to diagnose and suspect with reasonable accuracy all acute and chronic surgical illnesses

COMPETENCIES:

THERAPEUTIC- An intern must perform or assist in:

- a) Venesection or venous access
- b) Tracheostomy and endotracheal intubation
- c) Catheterization of patients with acute retention or trocar cystostomy
- d) Drainage of superficial abscesses
- e) Basic suturing of wound and wound management (including bandaging)
- f) Biopsy of surface tumours
- g) Perform vasectomy

Skill that an intern should be able to perform under supervision:

- a) Advise about prognosis of acute & chronic surgical illnesses, head injury, trauma, burns and cancer. Counsel patients regarding the same.
- b) Advise about rehabilitation of patients after surgery and assist them for early recovery.
- c) Intern should be able to demonstrate understanding of World Health Organization

cause of death reporting and data quality requirements.

d) Intern should be able to demonstrate understanding of the use of national and sub-national cause of death statistics.

An intern must have observed or preferably assisted at the following operations/procedures:

- a) Resuscitation of critical patients
- b) Basic surgical procedures for major and minor surgical illnesses
- c) Wound dressings and application of splints
- d) Laparoscopic/ Minimally Invasive surgery
- e) Lymph node biopsy

Certifiable Procedural Skills:

A Comprehensive list of skills recommended as desirable for Bachelor of Medicine and Bachelor of Surgery(MBBS) – Indian Medical Graduate.

I - Independently performed on patients, O -Observed in patients or on simulations,

D - Demonstration on patients or simulations and performance under supervision in patients

Specialty	Procedure
	 Basic suturing(I)
	Basic wound care(I)
General Surgery	 Basic bandaging(I)
	 Incision and drainage of superficial abscess(I)

Department of Radiodiagnosis

TABLE OF CONTENTS

S1.	Contents
No.	
1	Goals and Objectives
2	Competencies in Radiodiagnosis
3	Specific learning Objectives, Teaching learning and
	Assessment methods
4	Interns in radiology : Goal and competencies
5	Minimum teaching hours
6	Topics for Theory classes and their competencies
7	Topics for Integration
8	Recommended Books

Goals and Objectives:

The aim of teaching the undergraduate student in radiology is to impart such knowledge that may enable him to understand the value, indications, and limitations of radiological investigations. This will allow the future clinicians to have a meaningful discussion about the suitability of an investigation with the radiologists and use them as a resource.

Competencies in RADIOLOGY: The student must be able to

1. Define radiation and the interaction of radiation and importance of radiation protection

2. Describe the evolution of Radiodiagnosis. Identify various radiological equipments in the current era

3. Enumerate indications for various common radiologicalinvestigations, choose the most appropriate and cost

effectivemethod and interpret findings in common conditions pertaining tocommon clinical conditions

5. Describe the role of Interventional Radiology in common clinicalConditions

6. Describe the role of Emergency Radiology, miscellaneous & appliedaspects, interaction with clinical departments

7. Describe preparation of patient for common imaging procedures

8. Describe the effects of radiation in pregnancy and the methods of prevention/ minimization of radiation exposure

9. Describe the components of the PC & PNDT Act and its medicolegal implications

Specific learning objectives in RADIOLOGY

KNOWLEDGE : At the end of the course, the student should be able to:

- 1. Describe the indications of different radiological procedures
- 2. Understand the basic physics by which each modality works which helps in

understanding the modality's limitations.Forexampleby knowing the use of sound reflection in ultrasound helpsstudentsunderstand the limitations of ultrasound, for

example, poor imaging at depth. It also highlights theabsence of ionizing radiation

- 3. Identify emergencies like pneumothorax, pneumoperitoneum etc.,
- 4. Interpret a Chest radiographin a systematic manner

5.Recognize the correctpositioning of feedingtubes, venous lines, and endotrachealtubes on CXR

6.Summarize the critical information that must be included on an imaging exam requisition

Skills

Attheendofthecourse, the student should be able to:

- $\bullet \quad Describe the evolution of Radio diagnosis. Identify various radio logical equipment in the current era.$
- Enumerateindicationsforvariouscommonradiologicalinvestigations, choose themostappr opriate and cost effective method and interpret findings in common conditions pertaining to di sorder of
 - ENT.
 - Obstetrics&Gynecology.
 - Internalmedicine.
 - \circ Surgery.
 - Pediatrics
 - Commonmalignancies.

Attitudeandcommunication

1. Communication with empathytopatients & patient's attenders.

- 2. To obtain the relevant and essential clinical data to a idinimage interpretation.
- 3. To counsel & obtain informed consent from patient & patient sattenders

Integration

The undergraduate teaching in radiology shall be aligned and integrated horizontally and vertically in order to understand the fundamental principles of radiologic imaging, anatomic correlation and their application indiagnosis.

INTERNS IN RADIOLOGY

GOAL

The aim of teaching theundergraduate studentin Radio diagnosisistoimpartsuch knowledgeand skills that may enable him to understand principles of image logy and recognize risk and complications of radiologic procedures and the need for protective techniques. At the end

of internship, graduate should be able to counsel and prepare patients for various radiologic procedures.

COMPETENCIES:

1. Identifying and diagnosing acute abdominal conditions clinically and choose appropriate imaging modality for diagnosis.

2. Identifying and diagnosing a cutetraumatic conditions in bones and skullusing Xrays/CTS canswit hemphasis on fractures and head injuries.

 $\label{eq:constraint} 3. Recognizing basic hazards and precautions in radio-diagnostic$

practices specially related to pregnancy.

 $\label{eq:2.1} 4. Demonstrating a wareness of the various laws like PCPNDTAct.$

Minimum teaching hours

Subjects	Lectures	SGL	SDL	Total
General Medicine	95	155	55	260
General Surgery	80	140	40	260
Obstetrics and	80	140	40	260
Gynecology				
Pediatrics	30	60	30	120
Orthopedics	25	35	25	85
AETCOM	30	0	22	52
Dermatology	15	10	15	40
Psychiatry	15	15	15	45
Otorhinolaryngology	15	25	15	55
Ophthalmology	15	25	15	55
Radio diagnosis and Radiotherapy	8	15	15	38
Anesthesiology	8	15	15	38
Pandemic module	28	-	-	28
Total	444	610	302	1356

Table: Third Professional Part II teaching hours

THIRD PROFESSIONAL Part II PRACTICAL

Subjects	Pe	g in weeks	Total weeks	
-	II MBBS	III MBBS	III MBBS	
		Part I	Part II	
Electives	0	4	0	4
General Medicine	9	4	14	27
General Surgery	7	4	10	21
Obstetrics & Gynaecology	7	4	10	21
Pediatrics	4	4	5	13
Community Medicine	4	4	0	8
Orthopaedics	2	2	4	8
Otorhinolaryngology	0	3	4	7
Ophthalmology	0	3	4	7
Psychiatry	0	2	4	6
Radio-diagnosis	0	0	2	2
Dermatology	2	2	2	6
Dentistry	1	0	0	1
Anesthesiology	0	0	3	3
Total	36	36	62	134

Topics for Lectures and competencies

competency	Торіс	Teaching hours
RD1.1	Defineradiationandtheinteractionofradiationandimportanceof radiation protection	2
RD1.2	DescribetheevolutionofRadiodiagnosis.Identifyvarious radiologicalequipments In the current era	2
RD1.9	DescribetheroleofInterventionalRadiologyincommonclinical conditions	1
RD1.11	Describepreparationofpatientforcommonimagingprocedures	1
RD1.12	Describetheeffectsofradiationinpregnancyandthemethodsof prevention/ minimization of radiation exposure	1
RD1.13	DescribethecomponentsofthePC&PNDTActandits medicolegal implications	1

Topics for small group discussion (1hour each)

- 1. Indications for HRCT temporal bone :RD1.3
- 2. Radiological investigations in evaluation of Sinusitis : RD1.3
- 3. Merits and demerits of CT and MRI in carcinoma cervix RD1.4
- 4. Radiological investigations in carcinoma ovary RD1.4
- 5. Imaging modalities for evaluation of blood circulation to brain: RD1.5
- 6. Radiological manifestations of pulmonary tuberculosis : RD1.5
- 7. Common indications for ct chest and findings : RD1.5
- 8. Common indications and findings on ct and mri brain:RD1.5
- 9. Indications for USG in 1st trimester pregnancy :RD1.4
- 10. Common findings in anomaly scan at 20-24 weeks gestation : RD1.4
- 11. CXR PA view in congenital cardiac diseases in children:RD1.7
- 12. CXR PA view in aquired cardiac diseases in children : RD1.7
- 13. Indications for breast ultrasound -small group discussion :RD1.6
- 14. Benign breast diseases findings in mammogram--small group discussion :RD1.6
- 15. Carcinoma breast findings in mammogram--small group discussion :RD1.6

Topics for self directed learning and competencies (1hour each)

- 1) Radiological evaluation of infertility in females : RD1.4
- 2) Radiological evalution of infertility in males : RD1.4
- 3) Age estimation by radiological examination L : RD1.10
- 4) Indications for HRCT chest and findings in various ILD's:RD1.5
- 5) Role of plain radiographs in common rheumatological diseases :RD1.5
- 6) Radiological investigations in evaluation of secondary hypertension : RD1.5
- 7) Ultrasonography in acute testicular pain : RD1.10
- 8) Ultrasonography in acue pain abdomen : RD1.10
- 9) Radiological investigations in abdominal trauma : RD1.10
- 10) Radiological manifestations of Rickets : RD1.7
- 11) Radiological manifestations of scurvy : RD1.7
- 12) Radiological evaluation of patients with haemoptysis : RD1.5
- 13) Radiological evaluation patient with fever and productive cough : RD1.5
- 14) Radiological evaluation of patients with obstructive jaundice: RD1.6
- 15) Radiological evaluation of patients with abdominal mass :RD1.6

			Hu	manAna	atomy				
Number	COMPETENCY Thestudentshouldbeableto	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	SuggestedTeaching Learning method	Suggested Assessmentmethod	Number required tocertify P	VerticalIntegration	Horizontal Integration
AN13.4	Identify the bones and joints of upper limb seen in anteroposterior andlateralviewradiographsofshoulderregion,arm,elbow,forearm and hand	K/S	SH	Y	Practical,Smallgroup discussion, DOAP session	Vivavoce/Skill assessment		Radiodiagnosis	
AN25.7	Identifystructuresseenonaplainx-raychest(PAview)	K/S	SH	Y	Practical,DOAP session	Written/Vivavoce		Radiodiagnosis, GeneralMedicine	
AN25.8	Identifyanddescribeinbriefabariumswallow	K/S	SH	N	Practical,DOAP session	Written/Vivavoce		Radiodiagnosis, GeneralMedicine	
AN43.7	Identifytheanatomicalstructuresin1)Plainxrayskull,2)APview andlateralview3)Plainxraycervicalspine-APandlateralview 4)Plainxrayofparanasalsinuses	K/S	SH	Y	Practical	Vivavoce/Skill assessment		Radiodiagnosis	
AN43.8	Describetheanatomicalrouteusedforcarotidangiogramand vertebral angiogram	K/S	SH	N	Practical	Vivavoce/Skill assessment		Radiodiagnosis	
AN43.9	Identifyanatomicalstructuresincarotidangiogramandvertebral angiogram	K/S	SH	N	Practical	Vivavoce/Skill assessment		Radiodiagnosis	
AN51.1	Describe&identifythecross-sectionatthelevelofT8,T10andL1 (transpyloric plane)	K/S	SH	Y	Practical,Lecture, Small group discussion,DOAP session	Written/Vivavoce/ Skill assessment		Radiodiagnosis	
AN51.2	Describe&identifythemidsagittalsectionofmaleandfemalepelvis	К	SH	Y	Practical,Lecture, Small group discussion,DOAP session	Written/Vivavoce/ Skill assessment		Radiodiagnosis	
N541.	Describe&identify featuresofplainXrayabdomen	K/S	SH	Y	Lecture,DOAP session	Vivavoce/Skill assessment		Radiodiagnosis	

AN54.2	Describe & identify the special radiographs of abdominopelvicregion(contrastXrayBariumswallow,Bariummeal,Bari umenema, Cholecystography, Intravenous pyelography &Hysterosalpingography)	K/S	SH	Y	Lecture,DOAP session	Vivavoce/Skill assessment	Radiodiagnosis	
AN54.3	DescriberoleofERCP,CTabdomen,MRI,Arteriographyin radiodiagnosis of abdomen	К	КН	N	Lecture	Vivavoce	Radiodiagnosis	

		F	orensicN	ledicine	e&Toxicology		
FM1.9	 Describetheimportanceofdocumentationinmedicalpracticein regard to medicolegal examinations, Medical Certificates and medicolegal reportsespecially: maintenanceofpatientcaserecords,dischargesummary, prescribed registers to be maintained in Health Centres. maintenanceofmedico-legalregisterlikeaccidentregister. documentsofissuanceofwoundcertificate documentsofissuanceofdrunkennesscertificate. documentsofissuanceofdeathcertificate. documentsofissuanceofdeathcertificate. documentsofissuanceofdeathcertificate. documentsofMedicalCertificationofCauseofDeath-Form Number4 and 4A documentsforestimationofagebyphysical,dentaland radiological examination and issuance of certificate 	К	KH	Y	Lecture/Smallgroup discussion	Written/Vivavoce	Radiodiagnosis, General Surgery, GeneralMedicine, Pediatrics
			Ge	neralMe	edicine		
IM1.19	Enumerate the indications for and describe the findings of heart failurewiththefollowingconditionsincluding:2Dechocardiography, brain natriuretic peptide, exercise testing, nuclear medicine testing and coronary angiogram	S	КН	N	Lecture,Smallgroup discussion, Bedside clinic	Skillassessment	Radiodiagnosis
IM3.7	Order and interpret diagnostic tests based on the clinical presentationincluding:CBC,ChestXrayPAview,Mantoux,sputum gram stain, sputum culture and sensitivity, pleural fluid examination and culture, HIV testing and ABG	S	SH	Y	Bedsideclinic,DOAP session	Skillassessment	Radiodiagnosis, Microbiology

IM3.11	Describeandenumeratetheindicationsforfurthertestingincluding HRCT, Viral cultures, PCR and specialised testing	S	SH	Y	Bedsideclinic,DOAP session	Skillassessment	Radiodiagnosis, Microbiology	
IM5.13	Enumeratetheindicationsforultrasoundandotherimagingstudies including MRCP and ERCP and describe the findings in liver disease	К	к	Y	Bedsideclinic,Small group discussion	Vivavoce/Written	Radiodiagnosis	GeneralSurgery
IM6.12	EnumeratetheindicationsanddescribethefindingsforCTofthe chest and brain and MRI	К	к	N	Small group discussion,Lecture, Bedside clinic	Written/Vivavoce	Radiodiagnosis	
IM7.18	Enumeratetheindicationsandinterpretplainradiographsofjoints	К	SH	Y	Bedsideclinic,Small group discussion	Skillassessment/ Written	Radiodiagnosis	Orthopedics
IM10.19	Enumeratetheindicationsanddescribethefindingsinrenal ultrasound	К	КН	N	Lecture,Smallgroup discussion	Written/Vivavoce	Radiodiagnosis	
IM13.12	Describe the indications and interpret the results of Chest X Ray, mammogram,skinandtissuebiopsiesandtumormarkersusedin common cancers	K	КН	Y	Bedsideclinic,Small group discussion	Shortnote/Vivavoce	Radiodiagnosis	
IM18.9	Chooseandinterprettheappropriatediagnosticandimagingtest thatwilldelineatetheanatomyandunderlyingcauseofthelesion	S	КН	Y	Bedsideclinic,DOAP session, Small group discussion	Written/Vivavoce/ Skill assessment	Radiodiagnosis	
IM19.7	Chooseandinterpretdiagnosticandimagingtestsinthediagnosis of movement disorders	S	SH	Y	Bedsideclinic,Small group discussion	Skill assessment/ Smallgroupsession/ Written/ Viva voce	Radiodiagnosis	
			Obsteti	rics&Gy	naecology		I	
OG9.4	Discuss the clinical features, laboratory investigations ultrasonography,differentialdiagnosis,principlesofmanagement and follow up of gestational trophoblastic neoplasms	К	КН	Y	Lecture,Smallgroup discussion	Written/Vivavoce		Radiodiagnosis
		1	1	Pediatr	rics	•	I	1
PE21.12	InterpretreportofPlainradiographofKUB	S	SH	Y	Bedsideclinics,Skills lab	Logbook	Radiodiagnosis	

PE21.13	EnumeratetheindicationsforandInterpretthewrittenreportofUltra sonogram of KUB	S	SH	Y	Bedsideclinics,Skills lab	Logbook		Radiodiagnosis	
PE23.13	InterpretachestradiographandrecognizeCardiomegaly	S	SH	Y	Bedsideclinics, Skills lab	Logbookentry		Radiodiagnosis	
PE23.16	UsetheECHOreportsinmanagementofcases	S	SH	Y	Bedsideclinics	Logbookentry		Radiodiagnosis	
PE28.17	InterpretX-rayoftheparanasalsinusesandmastoid;and/oruse written report in case of management Interpret CXR in foreign body aspiration and lower respiratory tract infection,understandthesignificanceofthymicshadowinPediatric chest X-rays	S	P	Y	Bedsideclinics,Small group discussion	SkillsAssessment	3	ENT,Radiodiagnosis	
PE30.23	InterpretthereportsofEEG,CT, MRI	S	SH	Y	Bedside clinics, Skill lab	Logbook		Radiodiagnosis	
PE34.8	InterpretaChestradiograph	S	SH	Y	Bedside clinics, Skill lab	Skillassessment		Radiodiagnosis	RespiratoryMedicine
			Ger	neralSu	urgery				
SU25.3	Describetheetiopathogenesis, clinicalfeatures, Investigationsand principlesoftreatmentofbenignandmalignanttumoursofbreast.	К	КН	Y	Lecture,Smallgroup discussion, Demonstration	Written/Vivavoce Skill assessment		Radiodiagnosis	

Recommended Books

S.No	NameofBook	Author(s)	Edition	Publishers
1.	Radiologyandimagingformedicalstuden	DavidSutton	7th	ChurchillLivingston
	ts.			е
2.	TextbookofRadiologyandImaging	DavidSutton	7th	ChurchillLivingston
				е
3.	DiagnosticRadiology– Atextbookofmedicalimaging.	Grainger&Allison's	6th	ChurchillLivingston eELSEVIER
4.	DiagnosticUltrasound	Carol.MRumack	5th	ELSEVIER

Department of Anaesthesiology

Curriculum as per 2023-24 NMC guidelines for Department of Anaesthesiology and Critical care

A. Third Professional part-1 / Final MBBS-03 week's Clinical posting (2023-24 curriculum Page 73)

- a. Log book to be signed by the unit consultant on day to day basis
- b. Log book to be signed by the HOD on the last day of clinical posting in Anaesthesiology department

B. Third Professional part-2 / Final MBBS (2023-24 curriculum Page 72)

• Lectures-8 h

- 1. Preoperative Evaluation
- 2. Oxygen Therapy
- 3. Airway Management
- 4. Shock
- 5. Pain management(Acute/Chronic /labour pain)
- 6. Fluid Therapy
- 7. Post-operative care
- 8. Regional anaesthesia

• Small Group Learning (SGL)-15h

- 1. Informed Consent
- 2. Recovery room discharge score
- 3. Pain assessment
- 4. Anaesthesia Risk stratification (ASA PS)
- 5. NIL Oral Status
- 6. Paediatric airway
- 7. Chronic pain
- 8. Mallampati classification and Air way assessment
- 9. Quality CPR
- 10. Anaesthesia Induction drugs
- 11. ICU scoring
- 12. Monitoring in ICU
- 13. Medications used in ACLS
- 14. Pre anaesthetic medications
- 15. Role of Anaesthesiologist in modern profession

• Self-Directed Learning (SDL)-15h

- 1. End of Life Care-Breaking a Bad News
- 2. Anaesthesia record maintenance
- 3. BLS Algorithm
- 4. Tachycardia algorithm
- 5. Bradycardia algorithm
- 6. Shockable rhythm algorithm
- 7. Asystole algorithm
- 8. Laryngoscopy and Tracheal Intubation
- 9. Mask ventilation
- 10. Lumbar Puncture
- 11. Peripheral IV access
- 12. Defibrillation
- 13. Transcutaneous pacing
- 14. Intraosseous cannulation
- 15. Rapid sequence induction

• Attitude and Communication

- 1. Breaking Bad new with empathy in ICU
- 2. Counsel about informed consent after explaining types of anaesthesia and associated risk

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P		Suggested Teaching Learning method	Suggested Assessment method	
		ANAE		SIOLO	GY		
opic: An	aesthesiology as a specialty Numb	er of com	petencie	s: (04)	Number	of procedures that rea	quire certification: (NIL)
AS1.1	Describe the evolution of Anaesthesiology as a modern specialty	K	К	Ν	Lecture	Written/ Viva voce	
AS1.2	Describe the roles of Anaesthesiologist in the medical profession (including as a peri-operative physician, in the intensive care and high dependency units, in the management of acute and chronic pain, including labour analgesia, in the resuscitation of acutely ill)	К	К	N	Lecture	Written/ Viva voce	
\S1.3	Enumerate and describe the principle of ethics as it relates to Anaesthesiology	К	К	N	Lecture	Written/ Viva voce	
S1.4	Describe the prospects of Anaesthesiology as a career	К	K	N	Lecture	Written/ Viva voce	Role of anaesthesiologist in modern profession
Fopic: Ca AS2.1	Enumerate the indications, describe the steps and demonstrate in a simulated environment, Basic Life Support in adults, children and neonates	ber of com	npetencio SH	•	Number	of procedures that red	quire certification: (NIL) Quality CPR/ Paediatric airway
AS2.2	Enumerate the indications, describe the steps and demonstrate in a simulated environment, Advanced Life Support in adults and children	S	SH	N	DOAP session	Skill assesment	Medications used in ACLS/ Transcutaneous pacing/ algorithms
opic: Pr	eoperative evaluation and medication Numb	er of com	petencie	s: (06)	Number o	f procedures that requ	uire certification: (NIL)

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	
AS3.1	Describe the principles of preoperative evaluation	к	KH	Y	Lecture, Small group discussion	Written/ Viva voce	Pre operative evaluation
AS3.2	Elicit, present and document an appropriate history including medication history in a patient undergoing Surgery as it pertains to a preoperative anaesthetic evaluation	S	SH	Y	DOAP session, Bedside clinic	Skill station	MPG and airway assesment
AS3.3	Demonstrate and document an appropriate clinical examination in a patient undergoing General Surgery	S	SH	Y	DOAP session, Bedside clinic	Skill station	Informed consent
AS3.4	Choose and interpret appropriate testing for patients undergoing Surgery	S	SH	Y	DOAP session, Bedside clinic	Skill station	Anaesthesia risk stratification
AS3.5	Determine the readiness for General Surgery in a patient based on the preoperative evaluation	S	SH	Y	DOAP session, Bedside clinic	Skill station	Nil oral status
AS3.6	Choose and write a prescription for appropriate premedications for patients undergoing surgery	S	SH	Y	DOAP session, Bedside clinic	Skill station	Pre anaesthetic medications
Topic: Ge	neral Anaesthesia Numbe	r of comp	etencies	s: (07)	Number o	of procedures that requ	uire certification : (NIL)
AS4.1	Describe and discuss the pharmacology of drugs used in induction and maintenance of general anaesthesia (including intravenous and inhalation induction agents, opiate and non-opiate analgesics, depolarising and non depolarising muscle relaxants, anticholinesterases)	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce	Anaesthesia induction drugs
AS4.2	Describe the anatomy of the airway and its implications for general anaesthesia	К	KH	Y	Lecture, Small group discussion	Written/ Viva voce	Airway management / mask ventilation
AS4.3	Observe and describe the principles and the practical aspects of induction and maintenance of anesthesia	S	КН	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	Laryngoscopy and tracheal intubation

Number	COMPETENCY The student should be able to	Domain K/S/A/C		Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	
AS4.4	Observe and describe the principles and the steps/ techniques in maintenance of vital organ functions in patients undergoing surgical procedures	S	КН	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	Rapid sequence induction
AS4.5	Observe and describe the principles and the steps/ techniques in monitoring patients during anaesthesia	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	
AS4.6	Observe and describe the principles and the steps/ techniques involved in day care anesthesia	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	
AS4.7	Observe and describe the principles and the steps/ techniques involved in anaesthesia outside the operating room	S	КН	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	
Topic: Re	egional anaesthesia Number	r of comp	etencies	: (06)	Number o	f procedures that requ	lire certification: (NIL)
AS5.1	Enumerate the indications for and describe the principles of regional anaesthesia (including spinal, epidural and combined)	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce	Regional anaesthesia
AS5.2	Describe the correlative anatomy of the brachial plexus, subarachnoid and epidural spaces	к	KH	Y	Lecture, Small group discussion	Written/ Viva voce	Lumbar puncture
AS5.3	Observe and describe the principles and steps/ techniques involved in peripheral nerve blocks	S	КН	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	
AS5.4	Observe and describe the pharmacology and correct use of commonly used drugs and adjuvant agents in regional anesthesia	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	
AS5.5	Observe and describe the principles and steps/ techniques involved in caudal epidural in adults and children	S	КН	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	
AS5.6	Observe and describe the principles and steps/ techniques involved in common blocks used in surgery (including brachial plexus blocks)	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	
Topic: Pos	st-anaesthesia recovery Nun	nber of co	mpetenc	;ies: (0	3) Numb	er of procedures that I	require certification: (NIL)
AS6.1	Describe the principles of monitoring and resuscitation in the recovery room	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	Recovery room discharge score
AS6.2	Observe and enumerate the contents of the crash cart and describe the equipment used in the recovery room	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	Post operative care
AS6.3	Describe the common complications encountered by patients in the recovery room, their recognition and principles of management	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	
Topic: Inte	ensive Care Management Numb	er of com	petencie	s: (05)	Number	of procedures that rec	quire certification: (NIL)
AS7.1	Visit, enumerate and describe the functions of an Intensive Care Unit	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	End of life care and breaking a bad news
AS7.2	Enumerate and describe the criteria for admission and discharge of a patient to an ICU	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	Icu scoring
AS7.3	Observe and describe the management of an unconscious patient	S	КН	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	Shock Defibrillation

Number	COMPETENCY The student should be able to	Domain K/S/A/C		Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	
AS7.4	Observe and describe the basic setup process of a ventilator	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	Oxygen therapy
AS7.5	Observe and describe the principles of monitoring in an ICU	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	Monitoring in Icu
Topic: Pa	in and its management Number of com	petencies	: (05)		Νι	umber of procedures t	hat require certification: (NIL)
AS8.1	Describe the anatomical correlates and physiologic principles of pain	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	Pain management
AS8.2	Elicit and determine the level, quality and quantity of pain and its tolerance in patient or surrogate	S	КН	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	Pain assesment
AS8.3	Describe the pharmacology and use of drugs in the management of pain	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	
AS8.4	Describe the principles of pain management in palliative care	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	Chronic pain
AS8.5	Describe the principles of pain management in the terminally ill	К	КН	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	Breaking bad news with empathy in Icu
Topic: Flu	ids Number of competencies: (04)		Num	ber of p	rocedures that require	e certification: (NIL)	1

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	
AS9.1	Establish intravenous access in a simulated environment	S	КН	Y	Small group discussion, DOAP session	Skill assessment	Peripheral IV access
AS9.2	Establish central venous access in a simulated environment	S	KH	Y	Small group discussion, DOAP session	Skill assessment	Intraosseous cannulation
AS9.3	Describe the principles of fluid therapy in the preoperative period	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	Fluid therapy
AS9.4	Enumerate blood products and describe the use of blood products in the preoperative period	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	
Topic: Pat	tient safety Number of competencies:	(04	1	Number	of procedures that rec	quire certification: (NIL)
AS10.1	Enumerate the hazards of incorrect patient positioning	K	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	
AS10.2	Enumerate the hazards encountered in the perioperative period and steps/techniques taken to prevent them	К	КН	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	
AS10.3	Describe the role of communication in patient safety	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	
AS10.4	Define and describe common medical and medication errors in anaesthesia	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce	Counsel about informed consent after explaining types of anaesthesia and associated risk

1.Curriculum

a. Competencies

The student must demonstrate ability to:

- Provide peri-conceptional counseling and antenatal care,
- Identify high-risk pregnancies and refer appropriately,
- Conduct normal deliveries, using safe delivery practices in the primary and secondary care settings,
- Prescribe drugs safely and appropriate lyinpregnancy and lactation,
- Diagnose complication so flabor, institute primary care and refer in a timely manner.
- Perform early neonatal resuscitation,
- Provide postnatal care, including education in breast-feeding,
- Counsel and support couples in the correct choice of contraceptives.
- Interpret test results of laboratory and radiological investigations as they apply to the care of the obstetric patient,
- Apply medico-legal principles as they apply to
- tubectomy, Medical Termination of Pregnancy (MTP), Pre-conception and Prenatal Diagnostic Techniques (PC PNDT Act) and other related Acts.
- Elicit a gynecologic history, perform appropriate physical and pelvic examinations and PAP smear in the primary care setting.
- Recognize, diagnose and manage common reproductive tract infections in the primary care setting,
- Recognize and diagnose common genital cancers and refer them appropriately.

b. Broad subject specific objectives

Knowledge

At the end of the course, the student shall be able to:

- Outline the anatomy, physiology and pathophysiology of the reproductive system and
- the common conditions affecting it.
- Diagnose normal pregnancy, labor, puerperium and manage the problems he is likely to encounter therein.
- List of leading causes of maternal and perinatal morbidity and mortality.
- Understand the principles of contraception and various techniques employed, methods of medical termination of pregnancy, sterilization and their complications.
- Identify the use, abuse and side effects of drugs in pregnancy, peri- menopausal and postmenopausal periods.
- Describe the national programme of maternal and child health and family welfare andtheir implementation at various levels.
- Identify common gynecological diseases and describe principles of their management.
- State the indications, techniques and complications of surgeries like Caesarean section, laparotomy, abdominal and vaginal hysterectomy, Fothergill's operation and vacuum Aspiration for Medical Termination of pregnancy (MTP) and minor surgeries like EB, D and C, Cervical Biopsy and Cervical encirclage

c. Skills

At the end of the course, the student should be able to

- Take proper history and writing a good case sheet
- Writing a good discharge summary, proper referral letter
- Examination of patient and arrival at a diagnosis
- Planning for investigation and treatment
- Community orientation, participation in community health promoting and preventing programmes
- Examine a pregnant woman, recognize high- risk pregnancies and make appropriate referrals.
- Conduct a normal delivery, plot and interpret partogram
- Recognize complications and decision of referral, provide postnatal care,
- Resuscitate the newborn and recognize the congenital anomalies.

- Advise a couple on the use of various available contraceptive devices (student should see at least 5 Cu-T insertions and 5 cases of female sterilization operations.)
- Perform pelvic examination, diagnose and manage common. Gynecological problems including early detection of genital malignancies.
- Make a vaginal cytological smear, perform a post coital test and wet vaginal smear examination for Trichomonas vaginal is, Monilias is and gram stain for gonorrhea, catheterization of urinary bladder
- Interpretation of data of investigations like biochemical, histopathological, radiological ultrasound etc.

d. Integration

- The teaching should be aligned and integrated horizontally and vertically in order to provide comprehensive care for women in their reproductive years and beyond, based on a sound knowledge of structure, functions and disease and their clinical, social, emotional, psychological correlates in the context of national health priorities.
- The student shall be able to integrate clinical skills with other disciplines and bring about coordination of family welfare programme for the national goal of population control.

2. Course content teaching hours

a. Teaching hours (Teaching learning methods)

SI No	Торіс	Number of competenc ies	Lecture	SGD/ Tutorial	DOAP	SDL
1	Demographic and Vital Statistics	3	4	0	0	0
2	Anatomy of the female reproductive tract	2	3	0	0	0
3	Physiology of conception	1	2	0	0	0
4	Development of the fetus and the placenta	1	1	0	0	0
5	Preconception counselling	2	1	1	0	0
6	Diagnosis of pregnancy	1	1	1	0	0
7	Maternal Changes in pregnancy	1	1	0	0	0
8	Antenatal Care	8	5	1	1	1
9	Complications in early pregnancy	5	3	2	0	0
10	Antepartum haemorrhage	2	3	2	0	0
11	Multiple pregnancies	1	1	1	0	0
12	Medical Disorders in pregnancy	8	10	7	0	0
13	Labour	5	5	2	2	0
14	Abnormal Lie and Presentation; Maternal Pelvis	4	4	3	1	1
15	Operative obstetrics	2	0	2	1	0
16	Complications of the third stage of labour	4	4	3	1	0
17	Lactation	3	3	3	0	0
18	Care of the new born	4	2	2	2	0
19	Normal and abnormal puerperium	4	2	2	2	0
20	Medical termination of pregnancy	3	2	2	1	0
21	Contraception	2	5	4	1	0
22	Vaginal discharge	2	2	2	0	0

23	Normal and abnormal puberty	3	3	1	0	0
24	Abnormal uterine bleeding	2	2	1	0	0
25	Amenorrhea	2	2	1	0	0
26	Genital injuries and fistulae	1	2	1	0	0
27	Genital infections	6	6	6	0	1
28	Infertility	5	5	5	0	0
29	Uterine fibroids	1	1	1	0	1
30	PCOS and hirsutism	2	2	2	0	1
31	Uterine prolapse	1	1	1	0	1
32	Menopause	2	2	1	0	0
33	Benign, Pre-malignant (CIN) and Malignant Lesions of the Cervix	4	4	2	1	1
34	Benign and malignant diseases of the uterus and the ovaries	5	8	3	0	1
35	Obstetrics & Gynecological skills-I	17	0	12	17	0
36	Obstetrics & Gynecological skills - II	3	0	3	3	0
37	Obstetrics& Gynecological skills - III	7	0	7	0	0

b. Theory syllabus

Obstetrics:

- 1. Demographic and Vital Statistics
- 2. Anatomy of the femal ereproductive tract (Basicanatomy and embryology)
- 3. Physiology of conception
- 4. Development of fetus and placenta
- 5. Pre conception counselling
- 6. Diagnosis of pregnancy
- 7. Maternal changes in pregnancy
- 8. Antenatal care
- 9. Complications in early pregnancy
- 10. Antepartum hemorrhage
- 11. Multiple pregnancies
- 12. Medical disorders in pregnancy
- 13. Labour
- 14. Abnormal lie and presentation, maternal pelvis
- 15. Operative obstetrics
- 16. Complications of Third Stage
- 17. Care of the Newborn
- 18. Lactation
- 19. Normal and abnormal Puerperium
- 20. Medical Termination of Pregnancy

Gynaecology:

- 21. Contraception
- 22. Vaginal Discharge
- 23. Normal and Abnormal Puberty
- 24. Abnormal uterine bleeding
- 25. Amenorrhea
- 26. Genital injuries and fistulae
- 27. Genital infections
- 28. Infertility
- 29. Uterine fibroids
- 30. PCOS and hirsutism
- 31. Uterine prolapse

- 32. Menopause33. Benign, Pre Malignant (CIN) and Malignant lesions of the cervix
- 34. Benign and Malignant diseases of the uterus and ovaries

c. Practical syllabus

Number	Topics
OG5.1	Describe, discuss and identify pre- existing medical disorders and discuss their management; discussevidence-based intrapartum care
OG5.2	Determine maternal highrisk factors and verify immunization status
OG6.1	Describe, discuss and demonstrate the clinical features of pregnancy, derive and discuss its differential diagnosis, elaborate the principles underlying and interpret pregnancy tests
OG8.2	Elicit document and present an obstetric history including menstrual history, last menstrual period, previous obstetric history, comorbid conditions, past medical history and surgical history
OG8.3	Describe, demonstrate, document and perform an obstetrical examination including ag eneral and abdominal examination
OG8.4	Describe and demonstrate clinical monitoring of maternal and fetal well-being
OG8.5	Describe and demonstrate pelvic assessment in a model
OG8.6	Assessandcounselapatientinasimulatedenvironmentregardingappropriatenutrition inpregnancy
OG9.2	Describe the steps and observe/assist in the performance of an MTP evacuation
OG13.1	Enumerate and discuss the physiology of normal labor, mechanism of labor in occipito-anterior presentation; monitoring of labor including partogram; conduct of labor, pain relief; principles of induction
	And acceleration of labor; management of third stage of labor.
OG13.2	Define, describe the causes, pathophysiology, diagnosis, investigations and managem entofpreterm labor, PROM and postdated pregnancy
OG13.3	Observe/assist in the performance of artificial rupture of membranes
OG13.4	Demonstrate the stages of normal labor in a simulated environment/ mannequin and counsel on methods of safe abortion.
OG13.5	Observe and assist the conduct of normal vaginal delivery
OG15.1	Enumerate and describe the indications and steps of common obstetric procedures, technique and complications: Episiotomy, vacuum extraction; low forceps; Caesarean section, assisted breech delivery; External cephalic version; cervical cerclage
OG15.2	Observe and assist in the performance of an episiotomy and demonstrate the correct suturing technique of an episiotomy in a simulated environment. Observe/ Assist in operative obstetrics cases- including- Caesarean Section, Forceps, vacuum extraction, and breech delivery
OG16.3	Describe and discuss causes, clinical features, diagnosis, investigations; monitoring of fetal well-being, – Including ultrasound and fetal Doppler; principles of management; prevention and counselling in intrauterine growth retardation
OG17.2	Counsel in a simulated environment, care of the breast, importance and the technique of breast feeding

OG18.2	Demonstrate the steps of neonatal resuscitation in a simulated environment
OG19.2	Counsel in a simulated environment, contraception and puerperal sterilization
OG19.3	Observe/ assist in the performance of tubal ligation
OG19.4	Enumerate the indications for, describe the steps in and insert and remove an intrauterinedevice in a simulated environment
OG20.2	In asimulated environment administer informed consent to a person wishing toundergo Medical Termination of Pregnancy
OG26.1	Describe and discuss the etiopathogenesis, clinical features; investigation and implications on health and fertility and management of endometriosis and adenomyosis
OG31.1	Describe and discuss the etiology, classification, clinical features, diagnosis, investigations, principles of management and preventive aspects of prolapse of uterus
OG33.1	Classify, describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations and staging of cervical cancer
OG33.3	Describeanddemonstratethescreeningforcervicalcancerinasimulatedenvironment
OG34.2	Describe and discuss the etiology, pathology, classification, staging of ovarian cancer, clinical features, differential diagnosis, investigations, principal of management including staging laparotomy
OG34.3	Describe and discuss the etiology, pathology, classification, staging, clinical features, differential diagnosis, investigations and management of gestational trophoblastic disease
OG34.4	Operative Gynaecology: Understand and describe the technique and complications: Dilatation & Curettage (D&C), EA-ECC, cervical biopsy, abdominal hysterectomy, myomectomy, surgery for ovarian tumours, staging laparotomy, vaginal hysterectomy including pelvic floor repair, fothergill'soperation, laparoscopy, hystereoscopy, management of post operative complications
OG35.1	Obtain a logical sequence of history, and perform a humane and thorough clinical examination,
	Excluding internal examinations (per-rectalandper-vaginal)
OG35.2	Arrive at a logical provisional diagnosis after examination
OG35.3	Recognize situations, which call forurgentor early treatment at secondary and tertiary centers and make a prompt referral of such patients after giving first aid or emergency treatment
OG35.4	Demonstrate inter personal and communication skills be fitting aphysician in order to discuss illness and
	Its outcome with patient and family
OG35.5	Determine gestational age, EDD and obstetric formula
OG35.6	Demonstrate ethical behaviour in all aspects of medical practice
OG35.7	Obtain in formed consent for any examination/ procedure
OG35.8	Write a complete case record with all necessary details
OG35.9	Write a proper discharge summary with all relevant in formation
OG35.10	Write a proper referral note to secondary or tertiary centers or to other physicians

	
	with all necessary details.
OG35.11	Demonstrate the correct use of appropriate universal precautions for self- protection against HIV and hepatitis and counsel patients
OG35.12	Obtain a PAP smear in a stimulated environment
OG35.13	Demonstrate the correct technique to perform artificial rupture of membranes in a simulated/supervised environment
OG35.14	Demonstrate the correct technique to perform and suture episiotomies in a simulated/ supervised environment
OG35.15	Demonstrate the correct technique to insert and remove an IUD in asimulated/ supervised environment
OG35.16	Diagnose and provide emergency management of antepartumand post partumhemorrhage in a simulated/ guided environment
OG35.17	Demonstrate the correct technique of urinary catheterization in a simulated/ supervised environment
OG36.1	Plan and institute a line of treatment, which is need based, cost effective and appropriate for common conditions taking into consideration
	Patient
	Disease
	Socio-economic status Institution/ Governmental guidelines
OG36.2	Organize antenatal, postnatal, well-baby and family welfare clinics
OG36.3	Demonstrate the correct technique of punch biopsy of cervix in a simulated/ supervised environment
OG37.1	Observe and assist in the performance of a Caesarean section
OG37.2	Observe and assist in the performance of Laparotomy
OG37.3	Observe and assist in the performance of Hysterectomy-abdominal/vaginal
OG37.4	Observe and assist in the performance of Dilatation& Curettage(D&C)
OG37.5	ObserveandassistintheperformanceofEndometrialaspiration-endocervical curettage (EA-ECC)
OG37.6	Observe and assist in the performance of outlet forceps application of vacuum and breech delivery
OG37.7	Observe and assist in the performance of MTP in the first trimester and evacuation in incomplete abortion
OG38.1	Observe Basic Laparoscopy
OG38.2	Observe Basic Hysteroscopy
OG38.3	Observe Laparoscopic sterilization
OG38.4	Assess the need and issue appropriate medical certificates to patients for various purposes
1	1

Obstetrics CASE	Gynecology CASE
Normal pregnancy for safe	Abnormaluterinebleeding
confinement	
Anemia complicating pregnancy	Fibroid
Heart disease complicating pregnancy	Infertility
Recurrent pregnancy loss	Uterovaginal prolapse
Malpresentation (breech,t	Cancercervix
ransverselie)	
Hypertensive disorders of pregnancy	Carcinoma endometrium
Multiple pregnancy	Ca. ovary
Short stature/ adolescent pregnancy	Postmenopausal bleeding
/ elderlygravida	
Post caesarean pregnancy	Mass abdomen
Rh-negative pregnancy	White Discharge per vagina
	(Leukorrhoea)
Fetal growth restriction	
Gestational diabetes	
Prolonged pregnancy	-
Placenta previa	

List of all Obstetrics and Gynecology Competencies with their specific learning objectives,

with suggested teaching-learning and assessment method

	Compet en cie s	Specific learning objectives	Teac hing learn ing meth ods with hours	When T-L will be done	Format ive assess ment	Sum mativ e assess ment	Assessm ent of clinical skills
		and Vital Statistics Number of	compete	encies: (0	3) Numbe	er of pro	cedures
that requi	Define and discuss birth rate, maternal mortalit y and morbidit y	ation : (NIL)Definition of birth rateDefinition of maternalmortalityWhat is maternal mortalityratio and rate, incidence,Causes of maternal mortalityFactors affecting maternalmortality – 3 delaysInterventions to preventmaternal deathDefinition of maternalmorbidityExplain - acute, chronic, direct,indirect, non-obstetric maternalmorbidity	Lectu re 1hr Integr ation with com munit y health	5 th term	MCQs/ SAQ's at the end of lecture	Essay/ SAQ/ viva voce	
OG1.2	"Define and discuss perinatal mortalit y and morbidit y includin g perinatal and neonatal mortalit y and mortalit y and	Definition of perinatal mortality Incidence Factors affecting perinatal mortality Causes of perinatal mortality Strategies to reduce perinatal mortality Definition of perinatal morbidity How to audit neonatal morbidity	Lectu res 1hr Integr ation with com munit y health	5 th term	MCQs/ SAQ's at the end of lecture	Essay/ SAQ/ viva voce	
OG1.3	Define and discuss still birth and abortion	Definition of stillborn Incidence, etiology, pathology, symptoms, signs, investigations- still born infant Examination of stillborn infant Complications of IUD Management Definition of abortion Types Etiology Pathophysiology, clinical features, investigations,	Lectu res 2hr Tutori als /SGD	5 th Term	MCQs/ SAQ's at the end of lecture	Essay/ SAQ/ viva voce	

		management, differential diagnosis					
		he female reproductive tract (Ba					
Number (NIL)	of competer	ncies: (02) Number of procedure	es that re	equire co	ertificatio	n :	
(INIL)			Y				
OG2.1	Describe and	Development of external genital organs	Lectu re	3 rd 5th term	MCQs/ SAQ/	Short essay/	
	discuss the develop ment and anatomy of the female reproduc tive tract, relations hip to other pelvic organs,	Development of internal genital organs Development of ovary, differentiation, descent Anatomy of external genitalia Anatomy of Internal genital organs- vagina, uterus, cervix, fallopian tubes, ovary Relationship to other pelvic organs Applied anatomy	2hr Integr ation with Anato my		Viva voce	viva voce	
	applied anatomy as related to Obstetri cs and Gynaeco logy.						
OG2.2	Define, classify and discuss the investig ations and manage ment of mulleria n anomaly	classificaton of Mullerian anomaly, Investigation & management	Lectu re 1hr	5 th term	MCQs/ SAQ/ Viva voce	Short essay/ viva voce	
-	iysiology of ertification	conception Number of compete : (NIL)	ncies: (()1) Num	ber of pro	ocedures	that
OG3.1	Describe the physiolo gy of ovulatio n, menstru ation, fertilizat ion, implanta tion and	Gametogenesis – spermatogenesis, oogenesis Formation and maturation of ovarian follicles, structure of ovum Ovulation- mechanism, causes, timing,effects Fertilization- process, post fertilization events, implantation	Lectu re 2hrs	3 rd , 5 th term	MCQs/ SAQ	MCQ s/SA Q	

		of the fetus and the placenta Nu uire certification : (NIL)	mber of	f compet	encies: (0	1) Number of
OG4.1	Describe and discuss the basic embryol ogy of fetus, factors influenci ng fetal growth and develop ment, anatomy and physiolo gy of placenta, and	Embryology – formation of 3 germ layers, amnion and chorion, placenta Phases of conceptus development Timing of appearance of different organ systems Placenta- development, gross anatomy, structure, placental circulation, functions of placenta Teratogenesis, teratogens	Lectu re 1hr	3 rd 6th term	MCQs/ SAQ	MCQ s/SA Q
	teratoge nesis					
-	reconceptio	n counselling Number of compet	encies:(02) Num	ber of pro	ocedures that
require c	ertification	: (NIL)				
OG5.1	Describe , discuss and identify pre- existing medical disorder s and discuss their manage ment; discuss evidence -based intrapart um care	Pre existing medical disorders- anemia, cardiac disease, DM, chronic hypertension, bronchial asthma, seizure disorders, thyroid disorders, chronic kidney disease, Antenatal care and preconception counseling Objectives, history and examination, assessment of period of gestation, investigations, nutrition,	Lectu res 1hr Tutori als 1hr Bedsi de clinic s, Small group discu ssion	6 th term	MCQ/S AQ	MCQ/ SAQ
OG5.2	Determi ne maternal high risk factors and verify immuniz ation status	screening for high risk factors, elderly primigravida: complications during pregnancy and labour, maternal and fetal mortality, management bad obstetric history obesity: physiological changes, management grand multipara: complications, mortality, management maternal immunization status for - Tetanus - hepatitis B	Lectu res 1hr Bedsi de clinic, small group discu ssion	6 th term	MCQ/S AQ	MCQ/ SAQ

		-					
		influenza vaccines contraindicated in	1				
		pregnancy					
		immunization in special					
		circumstances: rabies, yellow					
		fever, hepatitis A,					
-		pregnancy Number of competen	cies:(01)) Numbe	r of proce	dures th	at require
	on : (NIL)		-	c+la			
OG6.1	Describe	Discuss the clinical features of	Lectu	6 th	MCQs/	MCQ	End of
	, discuss and	early pregnancy Tests to confirm pregnancy -	res 1hr	term	SAQs	s/SA Qs	posting
	demonst	immunologial test, Urine	Bedsi			V ³	
	rate the	Pregancy test.	de				
	clinical	Discuss the role of ultra sound	clinic,				
	features	in dignosing Pregnancy	small				
	of		group				
	pregnan		discu				
	cy,		ssion				
	derive and		OPDs				
	discuss						
	its						
	different						
	ial						
	diagnosi						
	s,						
	elaborat						
	e the						
	principle s						
	underlyi						
	ng and						
	interpret						
	pregnan						
	cy tests.			• (0)		6	
-		anges in pregnancy Number of c ation : (NIL)	compete	ncies: (0	I) Numbe	r of proc	edures
OG7.1	Describe	Hematology-blood volume,	Lectu	6 th	MCQs/	MCQ	
	and	plasma volume, RBC	res	term	SAQs	s/SA	
	discuss	&hemoglobin, blood	1hr			Qs	
	the	coagulation factors	Bedsi				
	changes	CVS-anatomical changes,	de				
	in the	cardiac output, BP, venous	clinic,				
	genital tract,	pressure RS-respiratory rate, tidal	small group				
	cardiova	volume, total lung capacity	discu				
	scular	Renal-changes in kidney,	ssion				
	system,	ureter, bladder					
	respirato	Gastrointestinal changes					
	ry,	Genital tract-changes in body					
	haemato	of uterus, isthmus, cervix					
	logy, renal						
	and						
	gastroint						
	estinal						
	system						
	in						
	pregnan						
Tonic An	cy tenatal Ca	re Number of competencies: (08) Numb	l er of pro	l cedures f	l hat requi	ire
	on : (NIL)	remainder of competencies, (00	<i>y</i> mullip	ci oi più	riuuris l	nat requ	
OG8.1	Enumer	Procedure at 1st visit	Bedsi	6 th	MCQs/	MCQ	End of
	ate,	Procedure at subsequent visits	de	term	SAQs	s/SA	posting

OG8.2	describe and discuss the objectiv es of antenata l care, assessm ent of period of gestatio n; screenin g for high- risk factors. Elicit	Routine Antenatal screening Antenatal hygiene Immunization Pre conceptional counselling & care Period of gestation based on pts statement, previous records, objective signs & investigations	clinic, small group discu ssion OPDs	6 th	MCQs/	Qs	End of
068.2	Elicit docume nt and present an obstetric history includin g menstru al history, last menstru al period, previous obstetric history, comorbi d conditio ns, past medical history and surgical history	Menstrual history in detail Naegeles rule Importance of Past history Importance of Surgical history	Bedsi de clinic, small group discu ssion OPDs	term	MCQs/ SAQs	MCQ s/SA Qs	End of posting
OG8.3	Describe , demonst rate, docume nt and perform an obstetric al examina tion includin g a general and abdomin al	Antepartum fetal surveillance - clinical - biochemical - biophysical Evaluation of fetal wellbeing Maternal weight gain Assessment of height of fundus General physical examination Per abdomen -inspection, palpation, auscultation Symphysio fundal height,abdominal girth	Lectu res 1hr Bedsi de clinic, small group discu ssion OPDs	3 rd 4 th & 6 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting

monitori ng of ng of nd maternal and fetal well- being	OG8.4	examina tion (and clinical monitori ng of maternal and fetal well- being;) Describe and demonst rate clinical	Non stress test Biophysical profile DFMC CTG Maternal condition assessment	Lectu res 1hr Tutori als	6 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting
pelvic assessm ent in a modelAt outlet Plane of least pelvic diametergroup discu ssion, postin gtermsOG8.6Assess and counsel a patient in a simulateBMI calorie requirement in pregnancy & lactation Protein requirement folic acid requirement folic acid requirement therapy Develop checklist for role play for nutrition in pregnancy g3rd Lectu res termMCQs/ s/SA QsMCQ s/SA QsEnd of postingOG8.7Enumer at the trap regrand cyContraindicated vaccines in pregnancy for nutrition in pregnancy mutrition in a pregnancy cyContraindicated vaccines in pregnancy for nutrition in cluding T-dap Tetanus toxoid-dose, route Current guideline for antentaal vaccination including T-dap Timing of vaccinationLectu res mall group discu ssion and curres ssionMCQs/ s/SA QsEnd of soldOG8.7Enumer at the indicatio regnana cyContraindicated vaccines in pregnancy Tetanus toxoid-dose, route Current guideline for antentaal vaccination including T-dap Timing of vaccinationLectu res mall group discu ssion opD3rd Lectu soldMCQs/ s/SA QsEnd of 	OG8.5	ng of maternal and fetal well- being Describe and demonst	 -investigations - Antenatal fetalsurveilance Bones of pelvis, anatomical measurements of diameters assessment at brim 	Bedsi de clinic, small group discu ssion Bedsi de clinic,	6 th 8 th &	Assess	Asses	
and counsel a patient in a simulatecalorie requirement in pregnancy & lactation Protein requirement Folic acid requirement d d Iron requirement ment regardin g g pregnancyterm Bedsi de clinic, small group discu ssion, Role play OPDterm SAQsSAQs s/SA Qsposting postingOG8.7Enumer ate the pregnan cyContraindicated vaccines in pregnan cyContraindicated vaccines in pregnancy sfor nate the pregnancyLectu res sion no therapy3rd termMCQs/ SAQsMCQ s/SA QsEnd of postingOG8.7Enumer ate the indicatio ns for and 	068.6	pelvic assessm ent in a model	At outlet Plane of least pelvic diameter	group discu ssion, DOA P,Lab our room postin g	terms	MCOs/	MCO	End of
ate the indicatiopregnancyres Safe vaccines in pregnancy Tetanus toxoid-dose, routeres BedsitermSAQss/SA Qspostingns for and types of vaccinat ion in pregnan cyCurrent guideline for antenatal types of vaccinationde clinic, small group discu ssion OPDIhrSAQss/SA Qsposting		and counsel a patient in a simulate d environ ment regardin g appropri ate nutrition in pregnan	calorie requirement in pregnancy & lactation Protein requirement Folic acid requirement Vit b12 requirement Iron requirement Supplementary nutritional therapy Develop checklist for role play for nutrition in pregnancy	res 1hr Bedsi de clinic, small group discu ssion, Role play	term	SAQs	s/SA Qs	posting
OG8.8 Enumer Indication of 1st trimester USG Lectu 3 rd MCQs/ MCQ End of		ate the indicatio ns for and types of vaccinat ion in pregnan cy	pregnancy Safe vaccines in pregnancy Tetanus toxoid-dose, route Current guideline for antenatal vaccination including T-dap Timing of vaccination	res 1hr Bedsi de clinic, small group discu ssion OPD	-	-	s/SA Qs	

	1		1	1			1
	indicatio	USG	1hr			Qs	
	ns and	Indication of 3rd trimester	Bedsi				
	describe	USG	de				
	the	USG markers of fetal	clinic,				
	investig	anomalies	small				
	ations						
		Gestational age assessment on	group				
	includin	USG	discu				
	g the use	Doppler studies	ssion				
	of	Routine antenatal blood and					
	ultrasou	urine investigation					
	nd in the	Screening test for aneuploidy,					
	initial	preeclampsia and GDM					
	assessm	Describe trimester wise blood					
	ent and	test and ultrasound assessment					
	monitori	test and uttrasound assessment					
	ng in						
	pregnan						
	cy						
Topic: Co	omplication	is in early pregnancy Number of	compet	encies: ((05) Numł	per of pr	ocedures
that requ	ire certifica	ation: (NIL)					
OG9.1	Classify,	Definition	Lectu	6 th &	MCQs/	MCQ	End of
	define	Etiology	res	7 th	SAQs	s/SA	posting
	and	Classification	1hr	term	_	Qs	1 -0
	discuses	Definition, clinical features,	Tutori			×~	
	the	investigations and management	als				
	aetiolog	of threatened, inevitable,	1hr				
	y and	missed, complete and	Bedsi				
	manage	incomplete abortion	de				
	ment of	Septic abortion definition	clinic,				
	abortion	Clinical Features	small				
	s	Management	group				
	includin	Prevention	discu				
	g		ssion				
	threaten		OPD				
	ed,		OID				
	· ·						
	incompl						
	ete,						
	inevitabl						
	inevitabl e,						
	e,						
	e, missed and						
069 2	e, missed and septic	Enumerate the steps of suction	Tutori	6 th &	MCOc/	MCO	End of
OG9.2	e, missed and septic Describe	Enumerate the steps of suction	Tutori	6 th & 7 th	MCQs/	MCQ s/SA	End of
OG9.2	e, missed and septic Describe the steps	evacuation	als	7 th	MCQs/ SAQs	s/SA	End of posting
OG9.2	e, missed and septic Describe the steps and	evacuation Enumerate steps of dilatation	als 1hr			-	
OG9.2	e, missed and septic Describe the steps and observe/	evacuation Enumerate steps of dilatation and evacuation	als 1hr Bedsi	7 th		s/SA	
OG9.2	e, missed and septic Describe the steps and observe/ assist in	evacuation Enumerate steps of dilatation and evacuation Enumerate steps of menstrual	als 1hr Bedsi de	7 th		s/SA	
OG9.2	e, missed and septic Describe the steps and observe/ assist in the	evacuation Enumerate steps of dilatation and evacuation	als 1hr Bedsi de clinic,	7 th		s/SA	
OG9.2	e, missed and septic Describe the steps and observe/ assist in	evacuation Enumerate steps of dilatation and evacuation Enumerate steps of menstrual	als 1hr Bedsi de	7 th		s/SA	
OG9.2	e, missed and septic Describe the steps and observe/ assist in the	evacuation Enumerate steps of dilatation and evacuation Enumerate steps of menstrual	als 1hr Bedsi de clinic, small	7 th		s/SA	
OG9.2	e, missed and septic Describe the steps and observe/ assist in the perform ance of	evacuation Enumerate steps of dilatation and evacuation Enumerate steps of menstrual	als 1hr Bedsi de clinic, small group	7 th		s/SA	
OG9.2	e, missed and septic Describe the steps and observe/ assist in the perform ance of an	evacuation Enumerate steps of dilatation and evacuation Enumerate steps of menstrual	als 1hr Bedsi de clinic, small group discu	7 th		s/SA	
OG9.2	e, missed and septic Describe the steps and observe/ assist in the perform ance of an MTP	evacuation Enumerate steps of dilatation and evacuation Enumerate steps of menstrual	als 1hr Bedsi de clinic, small group discu ssion	7 th		s/SA	
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		aemorrhage Number of competer	icies: (0.	2) Numb	er of com	petencies	sthat
require co OG10.1	ertification Define, classify and describe the aetiolog y, pathoge nesis, clinical features, ultrason ography, different ial diagnosi s and manage ment of antepart um haemorr hage in pregnan	classification and differential diagnosis Placenta previa definition Etiology and types Clinical features Complications Management- investigations, expectant vs definitive management Definition of abruption placenta Etiology and types Clinical features and grades Management	Lectu res 2hr Tutori als 2hr Bedsi de clinic, small group discu ssion OPD	6 th & 7 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting
OG10.2	cy Enumer ate the indicatio ns and describe the appropri ate use of blood and blood products , their complic ations and manage ment.	Enumerate different types of blood components Characteristic features and storage Indications for transfusion Massive transfusion protocol Complications and their management Discuss importance of consent form	Lectu res 1hr Bedsi de clinic, small group discu ssion	8 th term	MCQs/ SAQs	MCQ s/SA Qs	
-	ultiple preg	gnancies Number of competencie	es: (01) ľ	Number	of proced	ures that	require
<u>certificati</u> OG11.1	ion : (NIL) Describe the etiopath ology, clinical features; diagnosi s and investig ations, complic ations, principle s of manage	Etiopathology and types Diagnosis- History, symptoms, general and abdominal examination Investigations Maternal changes Complications to mother and fetus Management- antenatal, 1st and 2nd stage of labour, including delivery of 2nd twin, third stage, puerperium	Lectu res 1hr Tutori als 1hr Bedsi de clinic, small group discu ssion OPD	6 th & 7 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting

	multiple						
	pregnan						
	cies						
Topic: Me		rders in pregnancy Number of c	ompeter	ncies: (0	8) Numbe	r of proc	edures
that requi		ation : (NIL)	-	-	-	-	
OG12.1	Define, classify and describe the etiology and pathoph ysiology , early detectio n, investig ations; principle s of manage ment of hyperten sive disorder s of pregnan cy and eclampsi a, complic ations of eclampsi	Classification of hypertensive disorders, definition of pre- eclampsia and eclampsia Diagnostic criteria Etiopathogenesis Clinical features of pre- eclampsia and eclampsia- symptoms and signs Specific investigations Maternal and fetal complications antenatal management- supportive, fluid management, antibiotics, anti-hypertensives, anti-convulsants Monitoring and surveillance Management during labour	Lectu res 3hr Tutori als 2hr Bedsi de clinic, small group discu ssion OPD	8 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting
OG12.2	a. Define, classify and describe the etiology, pathoph ysiology ,diagnos is, investig ations, adverse effects on the mother and foetus and the manage ment during pregnan cy and labor, ations of anemia in	Definition Classification Etiology of nutritional anemia Clinical features of nutritional anemia Physiological changes and effects of anemia on pregnancy and fetus Investigations of nutritional anemia Complications during pregnancy, labour and puerperium Prevention of nutritional anemia Management of nutritional anemia- diet, oral and parenteral iron, blood transfusion Discuss classification, etiology, clinical features, investigations, complications and management of non nutritionalanemia	Lectu res 1hr Tutori als 1hr Bedsi de clinic, small group discu ssion OPD	6 th & 7 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting

	pregnan						
OG12.3	cy Define, classify and describe the etiology, pathoph ysiology ,diagnos is, investig ations, criteria, adverse effects on the mother and foetus and the manage ment during pregnan cy and labor, ations of diabetes in pregnan	definition of gestational diabetes mellitus classification of diabetes mellitus in pregnancy Enumerate etiological factors Discuss pathophysiology of diabetes mellitus in pregnancy investigations for diabetes mellitus in pregnancy Screening test for gestational diabetes mellitus Describe the effects of diabetes on pregnancy complications of diabetes mellitus in pregnancy Discuss the management of diabetes in antenatal period , in labour, postnatal	Lectu res 1hr Tutori als 1hr Bedsi de clinic, small group discu ssion	6 th & 7 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting
OG12.4	cy Define, classify and describe the etiology, pathoph ysiology ,diagnos is, investig ations, criteria, adverse effects on the mother and foetus and the manage ment during pregnan cy and labor, and complic ations of heart	classification of heart disease in pregnancy Discuss etiology Describe pathophysiology of heart disease in pregnancy Discuss clinical features of heart disease in pregnancy Describe antenatal investigations diagnosis Discuss the effects of heart disease on pregnancy Discuss the effects of pregnancy on heart disease management during pregnancy, during labour, in postnatal Complications, preconceptionalcouncelling	Lectu res 1hr Tutori als 1hr Bedsi de clinic, small group discu ssion OPD	6 th & 7 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting

	diseases in						
	pregnan						
OG12.5	cy Describe the	etiology of UTI in pregnancy pathophysiology in pregnancy	Lectu res	7 th term	MCQs/ SAQs	MCQ s/SA	End of posting
	clinical features,	symptoms signs	1hr Bedsi			Qs	
	detectio	investigations	de				
	n, effect of	complications management	clinic, small				
	pregnan cy on	Asymptomatic bacteriuria	group discu				
	the		ssion				
	disease and		OPD				
	impact						
	of the disease						
	on						
	pregnan cy						
	complic ations						
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	manage ment of						
	urinary						
	tract infection						
	s in						
	pregnan cy						
OG12.6	Describe the	Discuss classification of liver	Lectu	7 th	MCQs/	MCQ s/SA	End of
	clinical	disease in pregnancy etiology	res 1hr	term	SAQs	Qs	posting
	features, detectio	pathophysiology Describe clinical features of	Bedsi de				
	n, effect	liver disease in pregnancy	clinic,				
	of pregnan	List the investigations of liver disease in pregnancy	small group				
	cy on	Discuss the differential	discu				
	the disease	diagnosis of liver disease in pregnancy	ssion OPD				
	and	List the maternal complications					
	impact of the	management of liver disease in pregnancy					
	disease on						
	pregnan						
	cy complic						
	ations						
	and manage						
	ment of						
	liver disease						
	in pregnan						
OG12.7	cy Describe	introduction of HIV and	Lectu	7 th	MCQs/	MCQ	End of
0012./	and	incidence	res	term	SAQs	s/SA	posting
	discuss	routes of transmission	1hr		21125	Qs	posting

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	g, risk	clinical presentation	de				
	factors,	diagnosis	clinic,				
	manage	management prenatal care,	small				
	ment of	antenatal care, intrapartum	group				
	mother	care, postnatal care	discu				
	and	Pre-test and post test	ssion				
	newborn	counselling					
	with	PPTCT program					
0.010.0	HIV	TORCH infection in pregnancy	-	cth o		1600	T 1 0
OG12.8	Describe	Definition of Rh-	Lectu	$6^{\text{th}}\&$	MCQs/	MCQ	End of
	the	isoimmunisation	res	7 th	SAQs	s/SA	posting
	mechani	Mechanism of antibody	1hr	term		Qs	
	sm,	formation in the mother	Bedsi				
	prophyla	Prevention of Rh-	de				
	xis, fetal	isoimmunisation	clinic,				
	complic	Haemolytic disease of the fetus	small				
	ations,	and newborn	group				
	diagnosi	Antenatal investigations	discu				
	s and	protocol of Rh-negative mother	ssion				
	manage	Plan of delivery in	OPD				
	ment of isoimmu	unimmunised and immunised mother					
	nization in	Prognosis of Rh- isoimmunisation					
		15011111111115811011					
	pregnan						
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(01)		iber of competencies. (03) (tum	ci oi pi	occuure	s mai req		
OG13.1	Enumer	physiology of normal labour	Lectu	3 rd &	MCQs/	MCQ	End of
	ate and	mechanism of normal labour	res	4 th	SAQs	s/SA	posting
	discuss	monitoring of labour by	3hr	term		Qs	1 8
	the	partogram	Tutori				
	physiolo	steps of delivery	als				
	gy of	labour analgesia	1hr				
	normal	induction of labour by natural,	Bedsi				
	labor,	medical, surgical, combined	de				
	mechani	acceleration of labour	clinic,				
	sm of	management of 3rd stage of	small				
	labor in	labour	group				
	occipito-		discu				
	anterior		ssion,				
	presenta		eveni				
	tion;		ng				
	monitori		labou				
	ng of		r				
	labor		room				
	includin		postin				
	g		g				
	partogra						
	m;						
	conduct						
	of labor,						
	pain						
	relief;						
	principle						
	s of						
	inductio						
	n and						
	accelerat ion of						
	100 01	1					
	labor;						
	labor; manage						
	labor; manage ment of						
	labor; manage						

	labor.						
OG13.2	Define, describe the causes, pathoph ysiology , diagnosi s, investig ations and manage ment of preterm labor, PROM and postdate d pregnan cy	definition for preterm labour, PROM &post dated pregnancy etiology pathophysiology symptoms signs investigations diagnosis complications management	Lectu res 2hr Tutori als 1hr Bedsi de clinic, small group discu ssion	6 th & 7 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting
OG13.3	Observe / assist in the perform ance of an artificial rupture of membra nes	indications for ARM Enumerate the technique of procedure limitations contraindications complications	Bedsi de clinic, small group discu ssion, eveni ng labou r room postin o	8 th & 9 th term			Skill Assessm ent
OG13.4	Demons trate the stages of normal labor in a simulate d environ ment / manneq uin (and counsel on methods of safe abortion).	physiology and mechanism and events of stage 1,2 and 3 of normal labour defination of abortion types of abortion indications of induced abortion medical and surgical methods MTP act complications of abortion	g Bedsi de clinic, small group discu ssion, skill lab DOA P	8 th term			Skill Assessm ent
OG13.5). Observe and assist the conduct of a normal vaginal delivery	Monitoring of mother and fetus in second stage of labor General management- sterile precautions Position for delivery procedures Oxytocics and analgesia in labor Management of third stage of labor	Bedsi de clinic, Eveni ng labou r room postin g	8 th & 9 th term			Skill Assessm ent

		Examination of placenta	DOA D				
Topic: Al) Dormal Li	Fourth stage of labor e and Presentation; Maternal Pe	P P	nber of	 competen		Number
		eed certification : (NIL)			competen		1 (41110 01
OG14.1	Enumer ate and discuss the diameter s of maternal pelvis and types	Bones of female pelvis Diameters and planes of obstetric pelvis Clinical significance of each type of pelvis False and true pelvis Caldwell and moloy classification of pelvis.	Bedsi de clinic, DOA P	6 th 8 th & 9 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting Skill Assessm ent
OG14.2	Discuss the mechani sm of normal labor, Define and describe obstruct ed labor, its clinical features; preventi on; and manage ment	normal labor- definition Describe cardinal movements involved in labor Explain synclitism/asynclitism Definition of obstructed labor causes Clinical feautures diagnosis Prevention Management Complications of obstructed labor	Lectu res 1hr Bedsi de clinic, small group discu ssion, Eveni ng labou r room postin g	8 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting
OG14.3	Describe and discuss rupture uterus, causes, diagnosi s and manage ment.	incidence of Rupture Uterus causes pathology Clinical feautures diagnosis complications Management- general and definitive	Lectu res 1hr Bedsi de clinic, small group discu ssion, Eveni ng labou r room postin g	8 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting
OG14.4	Describe and discuss the classific ation; diagnosi s; manage ment of abnorma 1 labor	Definition Classification of abnormal uterine action Describe pathological retraction ring and management Management of abnormal labor Dystocia dystrophia syndrome	Lectu res 1hr Bedsi de clinic, small group discu ssion	8 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting
OG14.5	Describe and discuss causes,	Breech – Etiological features Clinical Examination Management of Antenatal	Lectu res 1hr Tutori	8 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting

	•				•		
	dagnosis	intrapartum	als				
	and	Compications - Maternal Fetal	1hr				
	manage	OP-	Bedsi				
	ment of	Etiology Features	de				
	breech	Clinical Examination	clinic,				
	presenta	Mechanism of labour in OP,	small				
	tion,	Course of labour	group				
	occipito	Definition of deep transverse	discu				
	posterior	arrest and its management	ssion				
	,	Define & discuss the	,				
	transver	management of transverse	eveni				
	se lie,		ng				
	face		labou				
	presenta		r				
	tion		room				
	tion		postin				
			g				
Tania Or	anativa ah	statuiag Number of compatencies	<u> g</u>	umbara	fnraadu	was that	noguino
		stetrics Number of competencies	5: (02) N	umber o	oi procedu	res inat	require
-	on : (NIL)		T ()	otho		MCO	
OG15.1	Enumer	Episiotomy- definition, types,	Tutori	8 th &	MCQs/	MCQ	End of
	ate and	timing of episiotomy, structures	als	9 th	SAQs	s/SA	posting
	describe	incised, repair, complications	2hrs	term	Skill	Qs	
	the	vacuum extraction- design,	Bedsi		Assess	Skill	
	indicatio	indications, contraindications,	de		ment	Asses	
	ns and	procedure, complications	clinic,			sment	
	steps of	low forceps- description of	Small				
	common	forceps, indications,	group				
	obstetric	contraindications, procedure,	discu				
	procedur	complications	ssion,				
	es,	caesarean section- types,	obser				
	techniqu	indications, procedure,	vatio				
	e and	complications. What is	n in				
	complic	caesarean hysterectomy	OT,				
	ations:	assisted breech delivery-	eveni				
	Episioto	principles, steps, indications,	ng				
	my,	delivery of after coming head,	labou				
	vacuum	complications	r				
	extractio	external cephalic version- pre	room				
	n; low	requisites, indications,	postin				
	forceps;	contraindications, procedure,	g				
	Caesare	complications	5				
	an	cervical cerclage – types,					
	section,	indications, procedure,					
	assisted	-					
		complications					
	breech						
	delivery;						
	external						
	cephalic						
	version;						
	cervical						
0.011	cerclage		D 1			1.000	
OG15.2	Observe	episiotomy- suturing technique	Bedsi		MCQs/	MCQ	Skill
	and	breech delivery	de		SAQs	s/SA	Assessm
	assist in		clinic,			Qs	ent
	the		Small				
	perform		group				
	ance of		discu				
	an		ssion				
	episioto		,				
	my and		obser				
	demonst		vatio				
	rate the		n in				
	correct		OT,				
	suturing		DOA				
	techniqu		P DOA				
			11	1	1	1	

	e of an episioto my in a simulate d environ ment. Observe /Assist in operativ e obstetric s cases – includin g - CS, Forceps, vacuum extractio n, and breech delivery		Skill lab				
Topic: C	~	of the third stage of labor- Nu	mber of con	apetenc	ies: (04)	Number	of
	Enumerate and discuss causes,	Te certification : (NIL) Definition – primary and secondary PPH Aetiology	Lectures 1hr Tutorials	8 th term	MCQs/ SAQs	MCQ s/SA Qs	End of postin
	prevention, diagnosis, management , of blood and blood products in appropriate use postpartum haemorrhag e	incidence diagnosis Degree of shock in PPH Prevention Management- medical, appropriate use of blood and blood products Uterine compression sutures Step wise devascularisation	1hr Bedside clinic, Small group discussio n,evening labour room posting				g
OG16. 2	Describe and discuss uterine inversion – causes, prevention, diagnosis and management	uterine inversion- INCIDENCE TYPES degree aetiology Clinical features diagnosis Complications D/D,prevention,prognosis management	Lectures 1hr Tutorials 1hr Bedside clinic, Small group discussio n	8 th term	MCQs/ SAQs	MCQ s/SA Qs	
OG16. 3	Describe and discuss causes, clinical features, diagnosis, investigatio ns; monitoring of fetal well-being, including ultrasound and fetal Doppler; principles of management	intrauterine growth restriction – definition Pathophysiology of FGR TYPES OF FGR aetiology diagnosis Management- antepartum, intrapartum and neonatal	Lectures 1hr Tutorials 1hr Bedside clinic	8 th term	MCQs/ SAQs	MCQ s/SA Qs	Case presen tation, End of postin g

			1			1			1
	; prevention	1							
	and								
	counselling								
	in								
	intrauterine								
	growth								
	retardation								
OG16.	Describe	Definition of Macrosomia	Lectur	es		MCQ	s/ M	CQ	Case
4	and discuss		1hr	•••		SAQ		~	preser
т	macrosomia		Bedsid			DAG.	Qs		tation
		-					Q8		End
	causes,	findings to diagnose &	clinic,	eve					
	diagnosis,	management	ning						of
	intra partun		labour						postin
	complicatio		room						g
	ns,	Intrapartum	posting	-					
	managemer	nt Management	Skill la	ıb					
		maternal &							
		neonatal complications							
Topic: L	actation Nu	mber of competencies: (03) Nun	iber of j	proce	dures	that re	equire c	ertif	ication
: (NIL)				_					
OG17.1	Describe	Anatomy of breast	Lectu	5 th		ſCQs/	MCQ		
	and	Phases of lactation	re	term	n S	AQs	s/SA		
	discuss	Prolactin reflex	1hr,	1			Qs		
	the	Milk let down reflex	Small						
	physiolo	Lactation inhibition and	group						
	gy of	suppression	discu						
	lactation	suppression	ssion						
	lactation		1hr						
0017.2	Coursel	Care of broost		8 th &	_				
OG17.2	Counsel .	Care of breast	Lectu	9 th	E .				
	in a	Initiation of breast feeding	re	-					
	simulate	Exclusive breast feeding	1hr,	tern	1				
	d	Technique of breastfeeding-	Small						
	environ	different position and	group						
	ment,	attachment	discu						
	care of	Frequency of breastfeeding	ssion						
	the	Adequacy of breastfeeding	1hr						
	breast,	Expression of breast milk							
	importa	1							
	nce and								
	the								
	techniqu								
	e of								
	breast								
0017.2	feeding		T .	othe			1/00		
OG17.3	Describe	Clinical presentation in mastitis	Lectu	8 th &		ICQs/	MCQ		
	and	Diagnosis of mastitis	re	9 th		AQs	s/SA		
	discuss	Complication of mastitis	1hr,	tern	1		Qs		
	the	Treatment and prevention of	Small						
	clinical	mastitis	group	1					
	features,	Breast abscess – definition,	discu						
	diagnosi	clinical presentation, diagnosis,	ssion	1					
	s and	investigation, treatment	1hr	1					
	manage	m. congation, acathent	1111	1					
	manage ment of			1					
				1					
	mastitis			1					
	and			1					
	breast			1					
-	abscess								
-		ew born Number of competencie	es: (04)]	Numł	oer of	proced	lures th	at re	equire
	tion : (NIL)		1	1 1					
OG18.1	Describe	Examination of new born	Lectu	3 rd 8		ICQs/	MCQ	E	and of
	and	Assessment of gestation age –	res	4 th	S	AQs	s/SA	p	osting
	discuss	by sole creases, breast nodule,	1hr	tern			Qs		-
	the	scalp hair, ear lobe, testes and	Bedsi	1			-		
	assessm	scrotum	de						
				1			1	1	

	ent of maturity of the newborn , diagnosi s of birth asphyxia , principle s of resuscita tion, common problem	Birth asphyxia – definition, etiology, diagnosis, clinical features, management Equipments for resuscitation principles of resuscitation Common problem in resuscitation	clinic, Small group discu ssion DOA P, Eveni ng labou r room postin g Skill Lab				
OG18.2	s. Demons trate the steps of neonatal resuscita tion in a simulate d environ ment	New born resuscitation algorithm Initial steps Positive pressure ventilation Endotracheal intubation, chest compression medication	Bedsi de clinic, DOA P, Eveni ng labou r room postin g Skill Lab	6 th term			Skill Assesme nt
OG18.3	Describe and discuss the diagnosi s of birth asphyxia	definition birth asphyxia etiopathogenesis Clinical features and diagnosis management	Lectu res 1hr Bedsi de clinic, small group discu ssion	8 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting
OG18.4	Describe the principle s of resuscita tion of the newborn and enumera te the common problem s encount ered	Principles of resuscitation Steps of resuscitation Resuscitation principle in baby whose apneic despite tactile stimulation Resuscitation when baby is apneic and HR less than 100	Bedsi de clinic, Small group discu ssion	8 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting
		abnormal puerperium. Number	of comp	etencies	: (04) Nun	nber of p	orocedures
that requi	Describe	ation : (NIL) definition of Purperium	Lectu	6 th &	MCQs/	MCQ	Post
/ / 1	and discuss the physiolo gy of	Physiological changes includes uterine changes Define lochia & types general physiological changes	res 2hrs Tutori als 1hr	8 th term	SAQs	s/SA Qs	natal case presentat ion during

	•						
	puerperi	Puerperal sepsis – definition,	Bedsi				clinics,
	um, its	causes, pathogenesis, clinical	de				End of
	complic	features, diagnosis,	clinic,				posting
	ations,	management	Small				
	diagnosi	Subinvolution , urinary	group				
	s and	problems	discu				
	manage	Thromboembolic disorders –	ssion				
	ment;	DVT, thrombophlebitis,					
	counsell	pulmonary embolism					
	ing for	Obstetric palsies, puerperal					
	contrace	psychiatric disorders					
	ption,						
	puerpera						
	sterilizat						
OG19.2	ion	Methods of contracention	Tutori	8 th &		-	Skill
0019.2	Counsel in a	Methods of contraception Puerperal sterilization -	als	9 th			Assessm
	simulate	a. informed	als 1hr	9 term			ent
	d	consent and pre-requisites	Bedsi	willi			Cint
	u environ	b. timing	de				
	ment,	c. methods	clinic,				
	contrace		DOA				
	ption		Р,				
	and	e. steps f. complicati	Role				
	puerpera	1	play				
	1	On Davelop a checklist for role					
	sterilisat	Develop a checklist for role paly including above mention					
	ion	SLO					
OG19.3	Observe	Pre –operative preparation	DOA	8 th &			Skill
- /	/ assist	Type of anaesthesia	P &	9 th			Assessm
	in the	Types of incision	Intra	term			ent
	perform	Procedure	opera				
	ance of	Advantages	tive,				
	tubal	Drawbacks	skill				
	ligation		lab	-			
OG19.4	Enumer	Indications for cu-t insertions –	Skill	8 th &	MCQs/	MCQ	Skill
	ate the	WHO eligibility criteria	lab &	9 th	SAQs	s/SA	Assessm
	indicatio	Timing of insertion	OPD	term		Qs	ent
	ns for,	Technique of insertion – no					
	describe	touch insertion					
	the steps						
	in and						
	insert and						
	and remove						
	an						
	intrauter						
	ine						
	device						
	in a						
	simulate						
	d						
	environ						
	ment						
-		ination of pregnancy Number o	f compet	tencies:	(03) Num	ber of pr	ocedures
		ation : (NIL)		ard		1.000	
OG20.1	Enumer	Induction of Abortion-	Lectu	3 rd	MCQs/	MCQ	
	ate the	Definition	res 2hr	term	SAQs	s/SA	
	indicatio	MEDICAL TERMINATION	2hr Dadai			Qs	
	ns and	OF PREGNANCY Act	Bedsi de				
	describe and	Indications for termination Recommendations (new	de clinic,				
	and discuss	changes)	Small				
	I UISCUSS	Changes	I SIIIall	1	1	1	1

	the legal aspects, indicatio ns, methods for first and second trimester MTP; complic ations and	First trimester (Upto 12 weeks) -Medical & Surgical Second Trimester (13-24 weeks) Medical & Surgical Complications of MTP- Immediate & Remote Management of Complications	group discu ssion				
	manage ment of complic ations of Medical Termina tion of Pregnan cy						
OG20.2	In a simulate d environ ment administ er informe d consent to a person wishing to undergo Medical Termina tion of Pregnan cy	Introduces oneself and verifies the patients identity and age. Explains that if minor or lunatic then parents or legal guardian consent is required Calculates the gestational age Provides information regarding the options available or the need for opinion of two medical practitioners Provides information regarding the failure rates, immediate and remote complications of the chosen procedures Explains that only the patients written consent is required and not the husbands Explains that it is a confidential procedure and has to be reported to the DHS in the prescribed form Develop a checklist for role play inluding above mentioned SLO	Tutori als 1hr DOA P, Role play	8 th & 9 th term			Viva voce
OG20.3	Discuss Pre- concepti on and Pre Natal Diagnos tic Techniq ues (PC& PNDT) Act 1994 & its amendm ents	Definition of the PC & PNDT act Prenatal diagnostic procedures under the act Prenatal diagnostic Tests covered by the act Qualified Personnel and Registration (of The place where US is performed) Offences and penalties	Lectu res 1hr Bedsi de clinic, Small group discu ssion	9 th term	MCQs/ SAQs	MCQ s/SA Qs	Viva voce
-	amendm ents	n Number of competencies: (02)	Numbe	r of proc	edures th	at requi	re

OG21.1	Describe and discuss the tempora ry and permane nt methods of contrace ption, indicatio ns, techniqu e and complic ations; selection of patients, side effects and failure rate includin g Ocs, male contrace ption, emergen cy contrace	Methods of contraception MEC criteria pearl Index Permanent – Male and Female contraceptive method Temporary Natural- Calendar, temperature, withdrawal, lactational (FAM) Barrier- Physical-male and female condoms, diaphragms ; Chemical - creams jelly and foam IUCD- types, mode of action, contraindications, complications, other uses Steroidal Contraception-oral, parenteral, devices COC- types, Mechanism of action, contraindications and non-contraceptive uses, follow up, Missed pill management Implants injectables and Emergency contraception Male contraception What is PPIUCD	Lectu res 5hrs Tutori als 4hrs Bedsi de clinic, Small group discu ssion Skill lab 1	8 th & 9 th term	MCQs/ SAQs	MCQ s/SA Qs	Skill Assessm ent, End of posting Viva voce
OG21.2	ption and IUCD Describe & discuss PPIUCD program me	Mode of insertion of PPIUCD Benefits Drawbacks Government Family Planning programs	Lectu res 1hr Bedsi de clinic, Small	8 th & 9 th term	MCQs/ SAQs	MCQ s/SA Qs	Viva voce
Tonia: Va	ainal disah	arge Number of competencies: (group discu ssion	abor of r	roadura	s that ra	
certificati	-	ange munioer of competencies. (ull تو الم		, occuult	5 mai 17	Y ^{u11} U
OG22.1	Describe the clinical characte ristics of physiolo gical vaginal discharg e	Vaginal causes Enumerate the causes of physiological vaginal discharge	Lectu res 1hr Bedsi de clinic ,Smal 1 group discu ssion, OPD	6 th term	MCQs/ SAQs	MCQ s/SA Qs	
OG22.2	Describe and discuss the	Defense of the genital tract Candida- Clinical features, complications, diagnosis, treatment	Lectu res 1hr Bedsi	6 th term	MCQs/ SAQs	MCQ s/SA Qs	End of posting

	etiology (with special emphasi s on Candida, T. vaginali s, bacterial vaginosi s), characte ristics, clinical diagnosi s, investig ations, genital hygiene, manage ment of common causes and the syndrom ic manage ment	T. vaginalis- Clinical features, complications, diagnosis, treatment Bacterial Vaginosis- Clinical features, complications, diagnosis, treatment Gonorrhea - Clinical features, complications, diagnosis, treatment Syphilis- Clinical features, complications, diagnosis, treatment Chlamydial infections- Clinical features, complications, diagnosis, treatment Chancroid, LGV, Granuloma Inguinale- cause, Clinical features, complications, diagnosis, treatment Herpes Genitalis- Clinical features, complications, diagnosis, treatment Syndromic Approach & kits available	de clinic ,Smal 1 group discu ssion, OPD				
-	ormal and a ertification	abnormal puberty Number of co	mpeten	cies: (03)	Number	of proce	dures that
OG23.1	Describe and discuss the physiolo gy of puberty, features of abnorma 1 puberty, common problem s and their manage ment	Puberty Definition and Morphological Changes Endocrinology of Puberty Precocious Puberty Definition, types, etiopathogenesis, diagnosis, treatment, prognosis, Delayed Puberty- Definition, types, etiopathogenesis, diagnosis, treatment, prognosis Puberty Menorrhagia - etiopathogenesis, diagnosis treatment	Lectu res 1hr Bedsi de clinic ,Smal 1 group discu ssion, OPD	6 th & 7 th term	MCQs/ SAQs	MCQ s/SA Qs	
OG23.2	Enumer ate the causes of delayed puberty. Describe the investig ation and	HypergonadotrophicHypogona dism- Ovarian Failure, gonadal dysgenesis Hypogonadotrophichypogonad ism-primary, kallmann, tumors Eugonadism- Anatomical ; AIS	Lectu res 1hr	6 th & 7 th term	MCQs/ SAQs	MCQ s/SA Qs	

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OG23.3	Enumer ate the	GnRH dependent- constitutional, intracranial	Lectu	6 th	MCQs/ SAQs	MCQ s/SA	
	causes	lesions, juvenile primary	res 1hr	term	SAUS	S/SA Qs	
	of	hypothyroidism; incomplete	1111			V ³	
	precocio	GnRH independent – Ovarian;					
	us	adrenal; Liver; iatrogenic					
	puberty						
Topic: Ab	normal ut	erine bleeding Number of compe	etencies:	(02) Nu	mber of p	rocedure	s that
require ce	ertification	: (NIL)					
OG24.1	Discuss	Definition of dysmenorrhea	Lectu	6 th			
	common	clinical Features	res	term			
	disorder	Types of dismenorrhea&	1hr				
	S .	management of dismenorrhea	Bedsi				
	associat ed with	Pre menstrual syndrome	de clinic				
	menstru	Etiology Clinical Features	,Smal				
	ation	management	,5111a1				
	like	management	group				
	irregular		discu				
	cycle,		ssion,				
	HMB,		OPD				
	intermen						
	strual						
	bleeding						
	, 1.						
	dismeno						
	rrhea,						
	PMS, ovulator						
	y pain						
OG24.2	Define,	Old terminology- Menorrhagia;	Lectu	6 th	MCQs/	MCQ	
	classify	Polymenorrhea; Metrorrhagia;		term	SAQs	s/SA	
	and	Oligomenorrhea;	1hr		Ì	Qs	
	discuss	Hypomenorrhea; DUB	Tutori			-	
	abnorma	Oligomenorrhea;	als				
	1 uterine	Hypomenorrhea; DUB	1hr				
	bleeding	FIGO PALM-COEIN	Bedsi				
	, its	classification	de				
	manage	Causes and its clinical features	clinic				
	ment	Investigations Management					
Tonic: An	nenorrhea	Number of competencies: (02) N	umber /	of proce	dures that	t require	
	ion : (NIL)	rumber of competencies. (02) is	umber	or proces		i require	
OG25.1	Describe	definition of primary and	Lectu	6 th	MCQs/	MCQ	
	and	secondary amenorrhea	res	term	SAQs	s/SA	
	discuss	clinical types of amenorrhea	1hr		_	Qs	
	the	physiological amenorrhea	Tutori				
	causes	pathological amenorrhea	als				
	of .	causes of primary and	1hr				
	primary	secondary amenorrhea	Bedsi				
	and	history, clinical examination,	de				
	secondar	when to start investigating investigations panel	clinic, Small				
	y amenorr	differential diagnosis of	group				
	hea, its	primary and secondary	discu				
	investig	amenorrhea	ssion,				
	ation		OPD				
	and the						
	principle						
	s of						
	manage						
	-				1		
0.00	ment.		T	c+h		1.000	
OG25.2	ment. Describe	Sexual Development	Lectu	6 th	MCQs/	MCQ	
OG25.2	ment.	Sexual Development Classification of intersex Disorder	Lectu res 1hr	6 th term	MCQs/ SAQs	MCQ s/SA Qs	

		-		ODD]
	sexual		s Syndrome	OPD					
	develop	Klineli	ilters syndrome						
	ment								
	and disorder								
	s of								
	sexual								
	develop								
Tania Ca	ment	as and	fistulae Number of comp		(01)	Numbo	nofr	woodu	tos that
	ertification			betencie	s: (01)	Numbe	roip	rocedui	res that
OG26.1	Describe		OMETRIOSIS	Lectu	8 th	MC	$\Omega_{\rm S}/$	MCQ	Case
0020.1	and	LIND	- definition	res	term	SAC		s/SA	presentat
	discuss		- definition	2hr	term	5/10	<u> </u>	Qs	ion, End
	the		prevalence and sites	Tutori				X	of
	etiopath		-	als	-				posting
	ogenesis		pathogenesis (theories)	1hr					Perma
	, clinical		- pathology	Bedsi					
	features;	- nake	ed eye and	de					
	investig		oscopic	clinic,					
	ation		appearance	Small					
	and	1	- ovarian	group					
	implicati	endor	netrioma	discu					
	ons on	1	-	ssion,					
	health	1	Symptoms and signs	OPD					
	and		-						
	fertility		investigations						
	and		-						
	manage		differential diagnosis						
	ment of		-						
	endomet		complications						
	riosis		-						
	and		management -						
	adenom	expec	ctant /medical /						
	yosis		surgical						
		/coml	oined						
		ADE	NOMYOSIS						
			- definition						
			- causes						
			-						
			pathogenesis						
			- symptoms						
		and si	igns						
		1	-						
		1	investigations						
		1	-	11					
			differential diagnosis						
			-						
		mana	differential diagnosis - gement						
		mana	gement						
			gement complications						
-			gement	(06) Nu	mber of) procee	lures	that rec	quire
certificati	on : (NIL)	ions Nu	gement complications imber of competencies: (1		-
-	on : (NIL) Describe a	ions Nu nd	gement <u>complications</u> umber of competencies: (Disscuss etiopathogenes	is of	Lectur	6 th	MC	MCC	2 End of
certificati	on : (NIL) Describe a discuss the	ions Nu nd	gement complications Imber of competencies: (Disscuss etiopathogenes each STD	is of	Lectur es		MC Qs/S	MCC S s/SA	End of postin
certificati	on : (NIL) Describe a discuss the etiology,	ions Nu nd	gement complications umber of competencies: Disscuss etiopathogenes each STD Describe the clinical fea	is of tures	Lectur es 1hr	6 th	MC	MCC S s/SA	2 End of
certificati	on : (NIL) Describe a discuss the etiology, pathology,	ions Nu nd	gement <u>complications</u> umber of competencies: (Disscuss etiopathogenes each STD Describe the clinical fea Discuss differential diag	is of tures nosis	Lectur es 1hr Bedsi	6 th	MC Qs/S	MCC S s/SA	End of postin
certificati	on : (NIL) Describe a discuss the etiology, pathology, clinical fea	ions Nu	gement complications Imber of competencies: (Disscuss etiopathogenes each STD Describe the clinical fea Discuss differential diag of STD	is of tures nosis	Lectur es 1hr Bedsi de	6 th	MC Qs/S	MCC S s/SA	End of postin
certificati	on : (NIL) Describe a discuss the etiology, pathology, clinical fea differentia	ions Nu	gement complications umber of competencies: (Disscuss etiopathogenes each STD Describe the clinical fea Discuss differential diag of STD Discuss investigations an	is of tures nosis	Lectur es 1hr Bedsi de clinic,	6 th	MC Qs/S	MCC S s/SA	End of postin
certificati	on : (NIL) Describe a discuss the etiology, pathology, clinical fea differentia diagnosis,	ions Nund	gement complications Imber of competencies: (Disscuss etiopathogenes each STD Describe the clinical fea Discuss differential diag of STD Discuss investigations an management of STD	is of tures nosis nd	Lectur es 1hr Bedsi de clinic, Small	6 th	MC Qs/S	MCC S s/SA	End of postin
certificati	on : (NIL) Describe a discuss the etiology, pathology, clinical fea differentia diagnosis, investigati	ions Nund	gement complications Imber of competencies: (Disscuss etiopathogenes each STD Describe the clinical fea Discuss differential diag of STD Discuss investigations at management of STD Syndromic Approach	is of tures nosis nd	Lectur es 1hr Bedsi de clinic, Small group	6 th	MC Qs/S	MCC S s/SA	End of postin
certificati	on : (NIL) Describe a discuss the etiology, pathology, clinical fea differentia diagnosis, investigati manageme	ions Nu nd stures, l ons, ent	gement <u>complications</u> umber of competencies: (Disscuss etiopathogenes each STD Describe the clinical fea Discuss differential diag of STD Discuss investigations at management of STD Syndromic Approach Discuss long term	is of tures nosis nd	Lectur es 1hr Bedsi de clinic, Small group discus	6 th	MC Qs/S	MCC S s/SA	End of postin
certificati	on : (NIL) Describe a discuss the etiology, pathology, clinical fea differentia diagnosis, investigati manageme and long te	ions Nu nd atures, l ons, ent erm	gement complications Imber of competencies: (Disscuss etiopathogenes each STD Describe the clinical fea Discuss differential diag of STD Discuss investigations at management of STD Syndromic Approach	is of tures nosis nd	Lectur es 1hr Bedsi de clinic, Small group discus sion,	6 th	MC Qs/S	MCC S s/SA	End of postin
certificati	on : (NIL) Describe a discuss the etiology, pathology, clinical fea differentia diagnosis, investigati manageme	ions Nu nd atures, l ons, ent erm	gement <u>complications</u> umber of competencies: (Disscuss etiopathogenes each STD Describe the clinical fea Discuss differential diag of STD Discuss investigations at management of STD Syndromic Approach Discuss long term	is of tures nosis nd	Lectur es 1hr Bedsi de clinic, Small group discus	6 th	MC Qs/S	MCC S s/SA	End of postin

	transmitted infections						
OG27.2	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, management and long term implications of genital tuberculosis	Describe aetiopathogenesis of genital TB Describe the clinical features Discuss differential diagnosis of genital TB Discuss investigations and management of genital TB Discuss long term implications of genital TB	Lectur es 1hr Bedsi de clinic, Small group discus sion, OPD	6 th term	MC Qs/S AQs	MCQ s/SA Qs	End of postin g
OG27.3	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, management and long term implications of HIV	Describe etiopathogenesis of HIV Describe the clinical features of HIV in Gynaecology Discuss differential diagnosis of HIV Discuss investigations and management of HIV Discuss long term implications of HIV	Lectur es 1hr Bedsi de clinic, Small group discus sion, OPD	6 th term	MC Qs/S AQs	MCQ s/SA Qs	End of postin g
OG27.4	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, management and long term implications of Pelvic Inflammatory Disease	Define PID Describe etiopathogenesis of PID Describe the clinical features of PID Discuss differential diagnosis of acute PID Discuss investigations and management of PID Discuss long term implications of PID	Lectur es 1hr Tutori als 1hr Small group discus sion, OPD	6 th term	MC Qs/S AQs	MCQ s/SA Qs	End of postin g Case presen tation
OG27.5	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, management of low back ache and chronic pelvic pain	Describe aetiology, clinical features, management of chronic PID Definition of chronic pelvic pain Difference between cyclic and acyclic pelvic pain Non gynaecological causes of pelvic pain Enumerate Different causes of pelvic pain (gynaecological) What is pelvic congestion syndrome and its management What is Cornett sign What is pessary test What is role of laparoscopy in diagnosis of chronic pelvic pain What is LUNA	Lectur es 1hr Small group discus sion, OPD	6 th term	MC Qs/S AQs	MCQ s/SA Qs	
OG27.6	Discuss clinical features, differential	What is residual (trapped) ovarian syndrome causative organisms	Lectur es 1hr	6 th term	MC Qs/S AQs	MCQ s/SA Qs	

Topic: Inf	disgnosis, pathogens and management of Bertholin'sabsce ss	pathology fate of infection of bartholin gland clinical features local examination findings treatment recurrenybartholinitis f competencies:(05) Number of	Small group discus sion, OPD	ires tha	ıt requi	ire certifi	cation
: (NIL) OG28.1	Describe and discuss the common causes, pathogenesis, clinical features, differential diagnosis; investigations; principles of management of infertility – methods of tubal patency, ovulation induction, assisted reproductive techniques	Definition of infertility Enumerate the causes and pathogenesis Clinical features Evaluation of infertile couple, Discuss the principles of management of infertility	Lectur es 1hr Tutori als 1hr Small group discus sion, OPD	8 th term	MC Qs/S AQs	MCQ s/SA Qs	
OG28.2	Enumerate the assessment and restoration of tubal patency	Causes for tubal factor in infertility Discuss the investigations to asses tubal patency Enumerate the methods to restore tubal patency	Lectur es 1hr Tutori als 1hr Small group discus sion, OPD	8 th term	MC Qs/S AQs	MCQ s/SA Qs	
OG28.3	Describe the principles of ovulation induction	Discuss ovarian factor leading to infertility Enumerate the investigations for ovarian factor in infertility Discuss the principles and different methods available for ovulation induction	Lectur es 1hr Tutori als 1hr Small group discus sion, OPD	8 th term	MC Qs/S AQs	MCQ s/SA Qs	
OG28.4	Enumerate the various Assisted Reproduction Techniques	Define ART Counselling for ART	Lectur es 1hr Tutori als 1hr Small group discus sion, OPD	8 th term	MC Qs/S AQs	MCQ s/SA Qs	
OG28.5	Describe and discuss the common causes, pathogenesis, clinical features,	Male Infertility : Discuss Aetiology - Genetic Disorders of Speramatogenesis Disorders of Speram	Lectur es 1hr Tutori als		MC Qs/S AQs	MCQ s/SA Qs	

	differentia		Anatomical defe		1hr Small			
	diagnosis; investigat		Sexual dysfuncti		group			
	principles		-		discus			
	managem		History to be elicitated		sion,			
	male infer		- To find the		OPD			
		J	probalb causes Investigation					
			- WHO guidne	ess for				
			semen analysis	235 101				
			- Testicular bio	opsv				
			- Immunologica					
			-Chromosomal					
			Enumerate ART method	ls				
-	terine fibro ion : (NIL)	ids Nu	mber of competencies: (0)	l) Num	ber of pr	rocedures	that requ	uire
OG29.1	Describe	Incide	ence and pathogenesis	Lectu	8 th	MCQs/	MCQ	End of
	and		factors	res	term	SAQs	s/SA	posting
	discuss	Figo	classification of types of	1hr		_	Qs	Case
	the	fibroi	d	Tutori				presenta
	etiology;		logical features of fibroid	als				ion
	patholog		cal features	1hr				
	у;		ination	Small				
	clinical		tigations	group				
	features;		rential diagnosis	discu				
	different		gement	ssion,				
	ial	-	ptotic fibroids:	OPD,				
	diagnosi	Indica	cal management :	Intra				
	s; investig		effects	opera tive				
	ations;		cal management :	live				
	principle	-	ples of myomectomy					
	s of		quisites					
	manage	Indica						
	ment,	Contr	aindications					
	complic	Endo	scopic procedures:					
	ations of	Hyste	roscopy					
	fibroid	-	scopy					
	uterus		ne artery embolization					
			methods:MRfgus					
т • ра			minal hysterectomy	(02)		<u> </u>		•
-	COS and hi ion : (NIL)	rsutisn	n Number of competencie	s: (02)	Number	of proced	ures that	t require
OG30.1	Describe a	and	discuss the	Lectu	8 th	MCQs/	MCQ	End of
	discuss th		etiopathogenesis of	res	term	SAQs	s/SA	posting
	etiopathog	-	PCOS	1hr			Qs	Case
	is; clinica	l I	Discuss clinical features	Tutori				presenta
	features;	.1	of PCOS	als 1hr				ion
	differentia		investigations,	1hr				
	diagnosis;		Diagnostic creteria,	Small				
	investigat managem	-	Differential diagnosis Treatment					
	complicat	-	Long term complications	group discu				
	of PCOS	10113	Long with complications	ssion				
	Enumerat	e the	Definition of hirsutism	Lectu	8 th	MCQs/	MCQ	
0630.2	causes and		Ovarian causes:	res	term	SAQs	s/SA	
OG30.2			Adrenal causes:	1hr		X0	Qs	
OG30.2	describe t		Others:				e =	
OG30.2	describe the investigat	ions		Small				
OG30.2	describe the investigate and	ions	Clinical features	Sillan		1	1	1
OG30.2	investigat and		Clinical features investigations					
OG30.2	investigat		Clinical features investigations management	group discu				
OG30.2	investigat and managem	ent	investigations	group				
OG30.2	investigat and managem of	ent	investigations	group discu				

00211	Describe and	Definition of relation	Lectur	8 th	MCOal	MCO	Endef
OG31.1	Describe and discuss the	Definition of pelvic organ prolapsed	Lectu res	8 ^m term	MCQs/ SAQs	MCQ s/SA	End of posting
	etiology,	Supports of uterus	1cs 1hr	101111	SAQS	Qs	Case
	classification,	Pathophysiology and	Tutori			X 3	presentat
	clinical	causes of prolapse	als				ion
	features,	Classification of pelvic	1hr				
	diagnosis,	organ prolapse					
	investigations,	Symptoms of prolapse	Small				
	principles of	Clinical evaluation	group				
	management	including history and	discu				
	and preventive	examination	ssion				
	aspects of	Differential diagnosis of	, ,				
	prolapse of	mass per vaginum	OPD,				
	uterus	investigations Factors determining the	OT, Bed				
		choice of treatment in	side				
		pelvic organ prolapse	clinic				
		Management of	s				
		prolapse:					
		pessary treatment in					
		pelvic organ prolapse					
		preventive aspects of					
		prolapse of uterus					
		er of competencies: (02) Nu	imber o	f proced	ures that	require	
	ion : (NIL)	Definition of managemen	Lastu	6 th	MCOal	MCO	
OG32.1	Describe and discuss the	Definition of menopause Physiology of	Lectu res	term	MCQs/ SAQs	MCQ s/SA	
	physiology of	menopause	1hr	101111	SAQS	Qs	
	menopause,	Symptoms and	1111			×5	
	symptoms,	investigations	Small				
	prevention,	Management and HRT	group				
	management		discu				
	and the role of		ssion				
	hormone		,				
	replacement		OPD				
00222	therapy.		T (9 th		MCO	F 1 C
OG32.2	Enumerate the causes of	Definition of post	Lectu	-	MCQs/	MCQ s/SA	End of
	postmenopausa	menopausal BLEEDING causes	res 1hr	term	SAQs	Qs	posting Case
	1 bleeding and	investigations	Tutori			V ³	presentat
	describe its	management	als				ion
	management		1hr				1011
	0						
			Small				
			group				
			discu				
			ssion				
			,				
			OPD,				
			minor				
			OT, Bed				
			side				
			clinic				
			s				
Topic: Be	enign, Pre-malign	ant (CIN) and Malignant	Lesions	of the C	ervix Nur	nber of	
		er of procedures that requi					
OG33.1	Classify,	Risk factors	Lectu	9 th	MCQs/	MCQ	
	describe and	Clinical features	res	term	SAQs	s/SA	
	discuss the	Signs and symptoms	2hr Tutori			Qs	
	etiology,	Modes of spread	Tutori				
	pathology, clinical	investigations Histological types of c a	als 1hr				
	features,	Cervix	1111				
	differential	Staging of Ca cervix-	Small				
	on on on on one				1	1	

	diagnosis, investigations and staging of cervical cancer	FIGO	group discu ssion				
			, OPD				
OG33.2	Describe the principles of	Benign lesions: Etiopathogenesis	Lectu res	9 th term	MCQs/ SAQs	MCQ s/SA	
	management including surgery and	Clinical features Symptoms and treatment preventive and definitive				Qs	
	radiotherapy of Benign, Pre-	Premalignant lesions of cervix (CIN):	discu ssion				
	malignant (CIN) and	Pathogenesis Etiology	, OPD				
	Malignant Lesions of the Cervix	Symptoms Investigations Treatment od CIN: preve and definitive	ntive				
		Ca cervix: Management of Cervical					
		Cancer according to stag Types of hysterectomy Indications for radiothera	ng				
OG33.3	Describe and	&Chemotharapy Complications and	Small	9 th	MCQs/	MCQ	
0.00010	demonstrate the screening	followup counsel the patient about	group discu	term	SAQs	s/SA Qs	
	for cervical cancer in a	need for Pap smear Examination	ssion,				
	simulated	take informed consent	OPD, Skill				
	environment	about the procedure	Lab,				
	chvironnent	ensure the adequate privacy at examination	DOA P				
		area keep ready equipment	1				
		needed for the procedure Perform examination					
		under aseptic precaution					
		Document the findings Proper disposal of					
OG33.4	Enumerate the	gloves Need for screening:	Lectu	9 th	MCQs/	MCQ	Viva
2 20011	methods to	Methods: VIA	res	term	SAQs	s/SA	voce
	prevent cancer	VILI	1hr			Qs	
	of cervix	PAP	Small				
	including	Colposcopy	group				
	visual	Indications	discu				
	inspection with	Methods	ssion,				
	acetic acid	inference	OPD				
	(VIA), visual inspection of cervix with						
	Lugol's iodine (VILI), pap						
	smear and colposcopy						

OG34.1	Describe and discuss aetiology, pathology, staging clinical features, differential diagnosis, investigations, staging laparotomy and principles of management of endometrial cancer	Types of endometrial hyperplasia Incidence, etiology of endometrial cnacer Pathology – gross, microscopic features. Types of endometrial cancer Modes of spread Diagnosis Figo staging Differential diagnosis, investigations Steps of staging laparotomy Chemotherapy and radiotherapy Followup	Lectures 1hr Small group discussion, OPD, intra operative	9 th term	MC Qs/ SA Qs	MCQ s/SA Qs	Viva voce End of postin g case preset nation
OG34.2	Describe and discuss the etiology, pathology, classification, staging of ovarian cancer, clinical features, differential diagnosis, investigations, principal of management including staging laparotomy	Incidence, etiology for ovarian cancer Genetics and ovarian malignancy Pathology Classification of ovarian cancer Modes of spread Clinical features Investigations Diagnosis Figo staging Differential diagnosis Screening Surgical management Chemotherapy Followup Germ cell tumors of ovary Discuss the role of Tumour markers	Lectures 2hr Tutorials 1hr Small group discussion, OPD, intra operative, Bed side clinics	9 th term	MC Qs/ SA Qs	MCQ s/SA Qs	Viva voce End of postin g case preset nation
OG34.3	Describe and discuss the etiology, pathology, classification, staging, clinical features, differential diagnosis, investigations and management of gestational trophoblastic disease	Gestational trophoblastic disease- spectrum WHO based prognostic scoring Incidence Etiology pathology staging Spread, clinical features Investigations, management Surveillance during and after therapy	Lectures 1hr Tutorials 1hr Small group discussion, OPD, Bed side clinics	9 th term	MC Qs/ SA Qs	MCQ s/SA Qs	Viva voce End of postin g case preset nation
OG34.4	Operative Gynaecology : Understand and describe the technique and complications: Dilatation & Curettage (D&C);	operative gynaecology: technique and complications Dilatation and curettage: indications, steps, complications Endometrial aspiration – endocervical curettage	Lectures 2hr Small group discussion, OPD,OT, Minor OT	9 th term	MC Qs/ SA Qs	MCQ s/SA Qs	Viva voce End of postin g case preset nation

	EA-ECC; cervical biopsy; abdominal hysterectomy; myomectomy; surgery for ovarian tumours; staging	Cervical biopsy: types, indications, steps, procedures, complications TAH : types, indications, steps, complications Myomectomy : measures					
	laparotomy; vaginal hysterectomy	to control blood loss during myomectomy,					
	including pelvic	steps, complications					
	floor repair;	Surgery for ovarian					
	Fothergill's	tumors					
	operation,	Staging laparotomy					
	Laparoscopy;	VH+PFR: steps,					
	hysteroscopy;	complications					
	management of	Fothergill's operation:					
	postoperative	indications, steps,					
	complications	complications					
		Laparoscopy: advantages,					
		disadvantages, instruments, indications,					
		contraindications,					
		techniques, complications					
		Hysteroscopy:					
		instruments, distending					
		media, anaesthesia,					
		procedures, indications,					
		contraindications,					
		complications					
OG34.5	Benign lesions of cervix, ovary	Benign disorders of cervix	()hr	sion term	MC Qs/	MCQ s/SA	Viva voce
		ectropion	Small cervica		SA Qs	Qs	End of
		Benign disorders of ovary -Enumerate th	discussion,		-		postin g case
		neoplastic ovarian enlarg	ement				preset nation
		- classification	n of Benign ov	arian			nution
		tumors					
		-complication	s of Benign o	varian			
		tumors					

Торі

skills certification:

skill

Obstetrics & Gynecological skills - I Number of competencies: (17) Number of procedures that require certification : (NIL)

OG35.1	Obtain a logical	Obtain a demographic	Small	$3^{rd} 4^{th}$		Viva
	sequence of history,	data	group	6 th &		voce
	and perform a	Chief complaints	discussion,	8 th		End of
	humane and	History of presenting	OPD,	term		posting
	thorough clinical	complaints	DOAP			case
	examination,	Obstetric and menstrual				presetn
	excluding internal	history				ation
	examinations	Past and family history				
	(perrectal and per-	Treatment history				
	vaginal)	Personal history				
		General physical				
		examination including				
		breast and thyroid, BMI				
		SYSTEMIC				
		EXAMINATION-				

		RS/CVS/CNS ABDOMEN EXAMINATION			
OG35.2	Arrive at a logical provisional diagnosis after examination.	With elicited history and detailed examination arrive at a logical provisional diagnosis	Small group discussion, OPD, DOAP	6 th 8 th & 9 th term	Viva voce End of posting case presetn ation
OG35.3	Recognize situations, which call for urgent or early treatment at secondary and tertiary centres and make a prompt referral of such patients after giving first aid or emergency treatment.	Analysis of clinical situation Identify the risk factors and need for urgent treatment Administer emergency medications Transfer to tertiary care center	Small group discussion, OPD, DOAP	8 th & 9 th term	Viva voce End of posting case presetn ation
OG35.4	Demonstrate interpersonal and communication skills befitting a physician in order to discuss illness and its outcome with patient and family	Counsel the patient and family members Arrive at a provisional diagnosis Explain the medical condition to family members in a language understood by them Discuss the medical and surgical management, complications, requirement of blood and blood products if needed Explain the prognosis of medical condition	Small group discussion, OPD, DOAP	8 th & 9 th term	Viva voce End of posting case presetn ation
OG35.5	Determine gestational age, EDD and obstetric formula	Address their concerns GA; Menstrual History. Clinical methods Ultrasound examination EDD; Menstrual History Nageles Formula Clinical methods Dating scan No dating scan Then interval Scan	Small group discussion, OPD, DOAP	8 th & 9 th term	Viva voce End of posting case presetn ation
OG35.6	Demonstrate ethical behavior in all aspects of medical practice.	Definition Gravida, Para, Living, Dead and Abortion Autonomy Justice Beneficence	Small group discussion, OPD, DOAP, role play	3 rd 4 th 6 th 8 th & 9 th term	Viva voce End of posting case presetn ation
OG35.7	Obtain informed consent for any examination / procedure	Non malfeasance For Examination: Informed oral consent For Procedure; informed written consent Signature is must diagnosis of condition name and purpose of procedure benefits, risks, and	Small group discussion, OPD, DOAP	3 rd 4 th 6 th 8 th & 9 th term	Viva voce End of posting case presetn ation

ca	Vrite a complete ase record with all ecessary details	Demography Obstetric score with amenorrhea LMP EDD Menstrual history Chief complaint HOPI Present obstetric history, Past obstetric history Past medical and surgical	Small group discussion, DOAP	3 rd 4 th 6 th 8 th & 9 th term	Viva voce End of posting case presetn
		history and personal history General Physical examination with Vitals. Breast and Spine examination Specific Systemic Examination Diagnosis			ation
di w	Vrite a proper scharge summary ith all relevant formation	Contents of discharge summary -name, age, sex, hospital number, address, date of admission &discharge	Small group discussion, DOAP	8 th & 9 th term	Viva voce End of posting case
re se ce ph ne	Vrite a proper efferral note to econdary or tertiary entres or to other hysicians with all ecessary details.	Final diagnosis Name of the operative interventions and intraoperative findings& complications Brief history Relevant investigations and Reports Course in the hospital in brief Advice on discharge Warning signs and symptoms relevant to the case to be mentioned Timing of follow up visits Definition of referral letter Patient demographics Registered general Practitioner details Referral Details - Institute - Specialty dept Referring Practitioner details Presenting complaints Past /Family History Assessment and examination Legal information Management to date Reason and urgency for referral	Small group discussion, OPD, DOAP	8 th & 9 th term	presetn ationViva voceEnd of posting case presetn ation
co	emonstrate the prrect use of ppropriate universal	Universal Infection Control Precautions Protective Clothing Isolation Facilities	Small group discussion,	$\begin{array}{c} 3^{rd} 4^{th} \\ 6^{th} \\ 8^{th} \& \\ 9^{th} \end{array}$	Viva voce End of

	1			1	T		
	protection against HIV and hepatitis and counsel patients	Spillage Of Blood And Body Fluids Sterilization And Disinfection Intravenous Procedures Waste Disposal Staff Protection And	DOAP	term			case presetn ation
OG35.12	Obtain a PAP smear in a stimulated environment	Immunization counsel the patient about need for Pap smear Examination ensure the adequate privacy at examination area keep ready equipment needed for the procedure perform examination under aseptic precaution document the findings Proper disposal of gloves	DOAP Skill lab	8 th & 9 th term			Viva voce End of posting case presetn ation
OG35.13	Demonstrate the correct technique to perform artificial rupture of membranes in a simulated / supervised environment	Indications Complications Pelvic examination findings Color of liquor Fetal Heart Assessment Verbal consent	DOAP, Evening labour room posting Skill lab	8 th & 9 th term			Viva voce End of posting case presetn ation
OG35.14	Demonstrate the correct technique to perform and suture episiotomies in a simulated/ supervised environment	Define Types Advantages Disadvantages Correct technique Complications – immediate & late	DOAP, Evening labour room posting Skill lab	8 th & 9 th term			Viva voce End of posting case presetn ation
OG35.15	Demonstrate the correct technique to insert and remove an IUD in a simulated/ supervised environment	Define Types Mechanism of action Advantages Disadvantages Indications and contra indications Criteria for selection of a client Techniques Uses	Skill lab	8 th & 9 th term			Viva voce End of posting case presetn ation
OG35.16	Diagnose and provide emergency management of antepartum and postpartum hemorrhage in a simulated / guided environment	Complications Symptoms and signs Examination Resuscitation - Airway, breathing, circulation Vitals monitoring Conservative management, medical, balloon tamponade, brace suturing, stepwise devascularization, Emergency hysterectomy.	Small group discussion, drills, Skill lab	8 th & 9 th term	Skil l ass ess me nt	Skil l ass ess me nt	Viva voce End of posting case presetn ation
OG35.17	Demonstrate the correct technique of urinary catheterization in a simulated/ supervised	Verbal consent after explaining to the patient Able to recognize and identify external urethral meatus with knowledge of anatomy of urethra	Skill lab	8 th & 9 th term	Skil l ass ess me nt	Skil l ass ess me nt	Viva voce End of posting case presetn

	environment	Knows importance of				ation
	environment	aseptic precautions,				ation
		proper painting and				
		draping of the patient for				
		the procedure				
		Identifies folley's catheter				
		and its parts, urosac				
		Can demonstrate the				
		procedure of				
		catheterization on a				
		manniquin				
Topic: Ob	stetrics & Gynecologica	l skills - II Number of comp	oetencies: (03) Numbe	r of procedu	res that
	rtification: (NIL)	1		,	I	
OG36.1	Plan and institute a	History taking to help to	Small	8^{th} &		Viva
	line of treatment,	arrive at the differential	group	9 th		voce
	which is need based,	diagnosis	discussion,	term		End
	cost effective and	Appropriate examination	Bed side			of
	appropriate for	of the patient to elicit	clinics			postin
	common conditions	signs and narrow the list				g case
	taking into	of differential diagnosis				preset
	consideration	Appropriate investigation				nation
	(a) Patient	to arrive at most probable				
	(b) Disease	diagnosis				
	(c) Socio-economic	Understanding the				
	status	specificity and sensitivity				
	(d) Institution/	of an investigation and its				
	Governmental	value in arriving at a				
	guidelines.	diagnosis				
		Have idea about cost of				
		investigations so that				
		balance decisions can be				
		taken.				
		Have institutional				
		protocols for common				
		diseases on conditions				
		Understand and cost				
		involved in various				
		treatment options and				
		choses the appropriate				
		treatment based on social economic status				
OG36.2	Organiza antonatal	Understands the role of	Small	8^{th} &		Viva
0030.2	Organize antenatal,	conservative treatment /		8^{th} & 9 th		
	postnatal, well-baby	medical treatment /	group discussion,	-		voce End
	and family welfare clinics		Bed side	term		of
	chines	surgical treatment for various disease conditions	clinics			
		Will understand antenatal	CHINCS			postin g case
		care and its importance				g case preset
		Know the requirements				nation
		for providing ANC care				nation
		Will understand the				
		various warning				
		symptoms during				
		antenatal period				
		Knowledge of puerperium				
		Knowledge of assessing				
		the neonatal wellbeing				
		Importance of breast				
		feeding				
		Understand attachment,				
		latching and suckling in				
		breast feeding evaluation				
		Value of organizing				
		postnatal clinics along				
		with paediatrician				
		with paeulauficiali				

					<u> </u>
OG36.3	Demonstrate the correct technique of punch biopsy of Cervix in a simulated/ supervised environment	/neonatologist for comfort and benefit of mother and baby Able to counsel regarding family planning in the postnatal visit Consent for the procedure Identify the punch biopsy forceps Aseptic precautions, painting and draping for the procedure Visualize the cervix using appropriate instrument Demonstrate the procedure on a maniquin Collect the specimen for histopathological examination	Small group discussion OPD	8 th & 9 th term	Viva voce End of postin g case preset nation
Topic: Obst	tetrics&Gynecological	skills - III Number of com	oetencies: (07) Number of J	orocedures
	e certification : (NIL)	•		/ I	
OG37.1	Observe and assist in the performance of a Caesarean section	Define caesarean section [CS] Mention the indication for CS Describe preoperative care, investigations, informed consent Appreciate the need to cross match and confirm blood Inform anesthetist, OT staff and neonatologist Observe hand washing, safety check list, instrument counts, type of anesthesia given Enumerate the steps of LSCS List the complications of CS and its management Describe the post- operative care	Small group discussion, OT	8 th & 9 th term	Viva voce End of postin g case preset nation
OG37.2	Observe and assist in the performance of Laparotomy	Appreciate the importance Documentation of all steps, events including new born details Indication for laparotomy Describe the preoperative care and investigations Informed consent, arrange blood and icu bed Lists the steps of laparotomy, need for frozen section. Patient positioning and anesthesia Complications of the procedure Post Operative care	Small group discussion, OT	8 th & 9 th term	Viva voce End of postin g case preset nation
OG37.3	Observe and assist in the performance of Hysterectomy – abdominal/vaginal	Documentation of all events Indications Assessment for route of	Small group discussion, OT	8 th & 9 th term	Viva voce End of

		surgery Pre operative preparation Informed consent Anesthesia and patient positioning Steps of Hysterectomy- abdominal/vaginal Complications of the procedure Post Operative care			posti g cas prese natic
OG37.4	Observe and assist in the performance of Dilatation & Curettage (D&C)	Post Operative care Documentation of all events Indications and contraindications Patient evaluation and pre op preparation Informed consent and anesthesia Steps of procedure Post procedure Post procedure monitoring Complications of the procedure Documentation of all events	Small group discussion, Minor OT OPD	8 th & 9 th term	Viva voce End of posti g cas prese natio
OG37.5	Observe and assist in the performance of Endometrial aspiration - endocervical curettage (EA-ECC)	Discharge advice Know how to take informed consent How to perform per speculum and per vaginal examination Know about instruments used (Pipelle) and aseptic precautions How to take utero cervical length/ cervical length Procedure of EA-ECC Know how to fill the relevant clinical details in HPE /Biopsy form Postop instructions and follow up	Small group discussion, Minor OT OPD	8 th & 9 th term	Viva voce End of posti g cas prese natio
OG37.6	Observe and assist in the performance of outlet forceps application of vacuum and breech delivery	Know how to take informed consent Identify whether there is an appropriate indication for application of outlet forceps/ vacuum/ breech delivery Assess whether all criteria for application of outlet forceps/ vacuum/ breech delivery are met Pre requisites – availability of OT, blood products, Neonatologist, Senior Obstetrician Labour analgesia/ anaesthesia Know how to perform phantom application of outlet forceps/ check equipment of vacuum and choose an appropriate	Small group discussion, Evening labour room posting	8 th & 9 th term	Viva voce End of posti g cas prese natio

the performance of MTP in the first trimester and evacuation in incomplete abortion regarding the various methods available and complications of each and taking informed consent Look for any contraindications for the method chosen Prescription of first trimester MTP pills Identifying the complications of MTP pills/Incomplete abortion/ Evacuation of retained products Know regarding equipment, instruments and drugs used(Karmans cannula, Suction apparatus) Procedure for Evacuation of retained products in incomplete abortion, under aseptic precautions Check the need for USG and Anti D Know how to fill the relevant chincial details in HPE /Biopsy form Post operative/ post pill instructions and follow up Documentation to Health Department to Government 9 th term voor term Topic: Should observe Number of competencies: (04) Number of procedures that require certificati : (NIL) Small g th & yoh yoh 8 th & yoh yoh			cup/ manouvres for delivery of legs, arms, shoulders and head in assisted breech delivery Perform application of outlet forceps/ vacuum/ breech delivery Know how to give and suture episiotomy and aseptic precautions Identify maternal and neonatal complications Documentation of the procedure				
Topic: Should observe Number of competencies: (04) Number of procedures that require certificati: (NIL)OG38.1LaparoscopyIndications for laparoscopySmall8th&Contraindications for9th	OG37.7	the performance of MTP in the first trimester and evacuation in	regarding the various methods available and complications of each and taking informed consent Look for any contraindications for the method chosen Prescription of first trimester MTP pills Identifying the complications of MTP pills/Incomplete abortion/ Evacuation of retained products Know regarding equipment, instruments and drugs used(Karmans cannula, Suction apparatus) Procedure for Evacuation of retained products in incomplete abortion, under aseptic precautions Check the need for USG and Anti D Know how to fill the relevant clinical details in HPE /Biopsy form Post operative/ post pill instructions and follow up Documentation of the procedure and know which register needs to be filled for intimation to Health Department of	discussion,	-		Viva voce End of postin g case preset nation
OG38.1LaparoscopyIndications for laparoscopy Contraindications forSmall group8th& 9thViv voo	-	uld observe Number		er of procedu	res that re	quire certif	ication
group y	· · · · · ·			Small			Viva
Informed consentOTofAnaesthesia under which it is performed and its complicationsofComplications of laparoscopy Postoperative instructionsnat			Contraindications for laparoscopy Informed consent Anaesthesia under which it is performed and its complications Complications of laparoscopy Postoperative instructions	discussion, OT	term		postin g case preset nation
Steps of Hysteroscopy group th vod	OG38.2		Steps of Hysteroscopy	group	th		Viva voce End

		Diagnostic Hysteroscopy Operative Hysteroscopy Fluid distension Media Post Op care and advice Risks and Complications of Hysteroscopy	OT		of postin g case preset nation
OG38.3	Lap sterilization	Sterilization procedure in women Steps of tubal sterilization done laparoscopically Effectiveness of Lap sterilization in prevention of pregnancy Risks associated with Lap tubal sterilization Benefits of Lap tubal sterilization Ideal timing for Lap tubal sterilization Reversal of Lap tubal sterilization procedure	Small group discussion	8 th & 9 th term	Viva voce End of postin g case preset nation
OG38.4	Assess the need for and issue proper medical certificates to patients for various purposes	Definition of Medical certificate Medical Certificate certifying illness Medical Certificate certifying fitness Assessing the patient illness and nature of work Responsibility of the issuing doctor Responsibility of the patient Responsibility of the patient Responsibility of the the third party Certificate Requirements Date of Certificate	Small group discussion	8 th & 9 th term	Viva voce End of postin g case preset nation

Number	Unit8-AntenatalCare
OG8.5	Describeanddemonstrate pelvic assessmentinamodel
Number	Unit10-Antepartumhaemorrhage
OG10.2	Enumerate the indications
N	anddescribetheappropriateuseofbloodandbloodproducts, their complications and management
Number	Unit12-Medical disorders in pregnancy
OG12.1	Define, classify and describe the etiology and pathophysiology: early detection, investigations; principles of management of hypertensive disorders of pregnancy and eclampsia, complications of eclampsia
Numbe	Unit13– Labour
r	Clift15– Labour
OG13.3	Observe/ assist in the performance of an artificial rupture of membranes
OG13.4	Demonstrate the stages of normal labor in a simulated environment / mannequin (and counsel on
0015.4	methods of safe abortion).
OG13.5	Observe and assist the conduct of a normal vaginal delivery
Number	Unit14-AbnormalLieandPresentation;MaternalPelvis
OG14.1	Enumerateanddiscussthediametersofmaternalpelvisandtypes
OG14.2	Discussthemechanismofnormallabor, Defineanddescribeobstructedlabor, its
	clinicalfeatures; prevention; and management
OG14.3	Describeanddiscuss ruptureuterus, causes, diagnosis and management.
OG14.4	Describeanddiscusstheclassification; diagnosis; management of abnormal labor
Number	Operative obstetrics
OG15.1	Enumerate and describe the indications and steps of common obstetric procedures, technique
	and complications: Episiotomy, vacuum extraction; low forceps; Caesarean section, assisted
	breech delivery; external cephalic version; cervical cerclage
Number	Unit16-Complicationsofthirdstage
OG16.1	Enumerateanddiscusscauses, prevention, diagnosis, management, appropriate use of blood and blo
00160	odproducts inpostpartumhaemorrhage
OG16.2	Describeanddiscussuterineinversion–causes, prevention, diagnosis and management
OG16.3	Describe and discuss causes, clinical features, diagnosis, investigationsmonitoring of fetalwell-
0010.5	being, including ultrasound and fetal Dopplerprinciples of management prevention and counselling inintrauterine growth retardation
OG16.4	Describe and discuss macrosomia, causes, diagnosis, intra partum complications, management
Number	Unit17-lactation
OG17.2	Counsel in a simulated environment, care of the breast, importance and the technique of breast
001,12	feeding
OG17.3	Describeanddiscusstheclinicalfeatures, diagnosis and management of mastitis and breast abscess
Number	Unit18-Careofthenewborn
OG18.3	Describeanddiscussthediagnosisofbirthasphyxia
OG18.4	Describetheprinciples of resuscitation of the newborn
	andenumeratethecommonproblemsencountered
Number	Unit19-Normal andabnormalpuerperium
OG19.1	Describeanddiscussthephysiologyofpuerperium,itscomplications,diagnosisandmanagementcouns
0010.2	ellingforcontraception, puerperalsterilization
OG19.2 OG19.3	Counsel in a simulated environment, contraception and puerperal sterilisation
OG19.3 OG19.4	Observe/ assist in the performance of tubal ligation Enumerate the indications for, describe the steps in and insert and remove an intrauterine device
0019.4	in a simulated environment
Number	Unit20-Medicalterminationofpregnancy
OG20.2	In a simulated environment administer informed consent to a person wishing to undergo Medical
0.02012	Termination of Pregnancy
OG20.3	DiscussPre-conceptionandPreNatalDiagnosticTechniques(PC&PNDT) Act1994&itsamendments
Number	Unit21-Contraception
OG21.1	Describeanddiscussthetemporaryandpermanentmethodsofcontraception, indications, technique
	and complications; selection of patients, side effects and failure rate including OCPs, male contracept
	ion, emergency contraception and IUCD
OG21.2	Describe&discussPPIUCDprogram
Number	Unit26– Genitalinjuries andfistulae
OG26.1	Describe and discuss the etiopathogenesis, clinical features, investigation and implications on health and the second s
0.55	dfertility and management of endometriosis and adenomyosis
OG26.2	Describethecauses, prevention, clinical features, principles
NT 1	ofmanagementofgenitalinjuriesandfistulae
Number	Unit28-Infertility
	274

OG28.1	Describeanddiscussthecommoncauses, pathogenesis, clinical features, differential diagnosis;
	investigations; principles of management of infertility – methods of tubal patency, ovulation
	induction, assisted reproductive techniques
OG28.2	Enumeratetheassessmentandrestorationoftuballatency
OG28.3	Describetheprinciples of ovulation induction
0G28.4	EnumeratethevariousAssistedReproductionTechniques
OG28.5	Describe and discuss the common causes, pathogenesis, clinical features, differential diagnosis;
	investigations; principles of management of male infertility
Number	Unit29-UterineFibroids
OG29.1	Describeanddiscusstheetiology,pathology,clinicalfeatures,differentialdiagnosis,investigations,pri
	nciplesofmanagement, complications of fibroiduterus
Number	Unit30-PCOSandHirsutism
OG30.1	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, and the second
	principlesofmanagementofPCOSandhirsutism
OG30.2	Enumeratethecausesanddescribetheinvestigationsandmanagementofhyperandrogenism
Number	Unit31-UterineProlapse
OG31.1	Describeanddiscusstheetiology, classification, clinical features, diagnosis, investigations, principles of the second sec
	fmanagement and preventive aspects of prolapse of uterus
Number	Unit32-Menopause
OG32.2	Enumerate the causes of postmenopausal bleeding and describe its management
Number	Unit33-Benign,pre-malignant(cin)andmalignantlesionsofthecervix
OG33.1	Classify, describe and discuss the etiology, pathology, clinical features, differential diagnosis, investiga
	tionsandstagingofcervicalcancer
OG33.2	Describetheprinciples of management including surgery and radio therapy of Benign, Pre-
	malignant(CIN)andMalignantLesions of the Cervix
OG33.3	Describeanddemonstratethescreeningforcervicalcancerinasimulatedenvironment
OG33.4	Enumeratethemethodsto
	preventcancerofcervixincludingvisualinspectionwithaceticacid(VIA), visualinspection
	ofcervixwith Lugol'siodine (VILI),papsmearandcolposcopy
Number	Unit34-Benignandmalignantdiseasesof theuterusandtheovaries
OG34.1	Describeanddiscussaetiology, pathology, staging clinical features, differential diagnosis, investigatio
0.001.0	ns,staginglaparotomyand principles of managementofendometrialcancer
OG34.2	Describe and discuss the etiology, pathology, classification, staging of ovarian cancer, clinical
	features, differential diagnosis, investigations, principal of management including staging
0024.2	
OG34.3	Describeanddiscusstheetiology,pathology,classification,staging,clinicalfeatures,differentialdia
0024.4	gnosis, investigationsandmanagementofgestationaltrophoblastic disease
OG34.4	Operative Gynaecology : Understand and describe the principles, technique and
	complications:Dilatation&Curettage(D&C);EA-
	ECC;cervicalbiopsy;abdominalhysterectomy;myomectomy;surgeryforovariantumours;stagingla
	parotomy;vaginalhysterectomyincludingpelvicfloorrepair;Fothergill
	operation, basic Laparoscopy; hysteroscopy and management of postoperative complications

4. Integration

Number	COMPETENCY Thestudentshouldbeableto:	Vertical Integration	Horizontal Integration
AN48.8	Mention the structures palpable during Vaginal & Rectal examination	Obstetrics & Gynaecology, General Surgery	
AN49.1	Describe&demonstratetheSuperficial&Deepperinealpo uch (boundaries and contents)	Obstetrics & Gynaecology	
AN49.2	Describe&identifyPerinealbody	Obstetrics &Gynaecology	
AN49.5	ExplaintheanatomicalbasisofPerinealtear,Episiotomy,P erianal abscess and Anal fissure	Obstetrics &Gynaecology	

AN52.8	Describethedevelopmentofmale&femalereproductivesy stem	Obstetrics &Gynaecology
AN53.1	Identify&holdtheboneintheanatomicalposition,Des cribethe salient features, articulations & demonstrate the attachments of muscle groups	General Surgery, Obstetrics &Gynaecology
AN53.2	Demonstrateanatomicalpositionofbonypelvis&showbo undaries of pelvic inlet, pelvic cavity, pelvic outlet	Obstetrics &Gynaecology
AN53.3	Definetruepelvisandfalsepelvisanddemonstratesex determination in male & female bony pelvis	Obstetrics &Gynaecology
AN64.3	Describevarioustypesofopenneuraltubedefectswithits embryological basis	Obstetrics &Gynaecology, Pediatrics

Number	COMPETENCY	Vertical	Horizont
	Thestudentshouldbeableto:	Integration	al Integrati on
AN75.5	Describetheprinciplesofgeneticcounselling	Pediatrics, Obstetrics &Gynaecology	
AN77.1	Describetheuterinechangesoccurringduringthemenstrualcycl e	Obstetrics &Gynaecology	
AN77.2	Describethesynchronybetweentheovarianandmenstrualcycle s	Obstetrics &Gynaecology	
AN77.3	Describespermatogenesisandoogenesisalongwithdiagrams	Obstetrics &Gynaecology	
AN77.4	Describestagesandconsequencesoffertilisation	Obstetrics &Gynaecology	
AN77.5	Enumerateanddescribetheanatomicalprinciplesunderlyingco ntraception	Obstetrics &Gynaecology	
AN77.6		Obstetrics &Gynaecology	
AN78.3	Describetheprocessofimplantation&commonabnormalsiteso fimplantation	Obstetrics &Gynaecology	
AN78.5	Describeinbriefabortion:decidualreaction,pregnancytest	Obstetrics &Gynaecology	
AN79.4		Obstetrics &Gynaecology	
AN79.5	Explainembryologicalbasisofcongenitalmalformations,nucle uspulposus, sacrococcygealteratomas, neural tube defects	Obstetrics &Gynaecology	
AN79.6		Obstetrics &Gynaecology	

Number	COMPETENCY Thestudentshouldbeableto:	Vertical Horizontal Integration Integration
AN80.3	Describeformationofplacenta, its physiological functions, foetomaternal circulation & placental barrier	Obstetrics &Gynaecology
AN80.4	Describeembryologicalbasisoftwinninginmonozygotic& dizygotic twins	Obstetrics &Gynaecology
AN80.5	Describeroleofplacentalhormonesinuterinegrowth&parturiti on	Obstetrics &Gynaecology
AN80.6	Explainembryologicalbasisofestimationoffetalage.	Obstetrics &Gynaecology
AN80.7	Describevarioustypesofumbilicalcordattachments	Obstetrics &Gynaecology
AN81.1	Describevariousmethodsofprenataldiagnosis	Obstetrics &Gynaecology
AN81.2	Describeindications,processanddisadvantagesofamniocentes is	Obstetrics &Gynaecology
AN81.3	Describeindications,processanddisadvantagesofchorionvillu sbiopsy	Obstetrics &Gynaecology
PY9.6	Enumeratethecontraceptivemethodsformaleand female. Discuss their advantages & disadvantages	Obstetrics &Gynaecology , Community Medicine
PY9.8	Describeanddiscussthephysiologyofpregnancy,parturition& lactation and outline the psychology and psychiatry- disorders associated with it.	Obstetrics &Gynaecology

Number	COMPETENCY Thestudentshouldbeableto:	Vertical Integration	Horizonta l Integratio n
PY9.10	Discussthephysiologicalbasisofvariouspregnancytests	Obstetrics &Gynaecology	
PY9.11	Discussthehormonalchangesandtheireffectsduringperimeno pause and menopause	Obstetrics &Gynaecology	
PY9.12	DiscussthecommoncausesofinfertilityinacoupleandroleofI VF in managing a case of infertility.	Obstetrics &Gynaecology	
BI10.1	Describecancerinitiation,promotion,oncogenes&oncogeneac tivation.	Obstetrics &Gynaecolog y, General Surgery, Pathology	
BI10.2	Describevariousbiochemicaltumormarkersandthebiochemic al basis of cancer therapy.	Obstetrics &Gynaecolog y, General Surgery, Pathology	
BI10.3	Describethecellularandhumoralcomponentsoftheimmune system & describe the types and structure of antibody	Obstetrics &Gynaecolog y, General Surgery, Pathology	
PA22.2	Enumerate the indications describe the principle senumerate and demonstrate the steps of compatibility testing		
PA30.1	Describe the epidemiology, pathogenesis, etiology, pathology, screening,diagnosisandprogressionofcarcinomaofthecervix	Obstetrics &Gynaecology	

Number	COMPETENCY	Vertical	Horizonta
	Thestudentshouldbeableto:	Integration	1
			Integratio
			n
PA30.2	Describethepathogenesis, etiology, pathology, diagnosis and pr	Obstetrics	
	ogressionand spread of carcinoma of the endometrium	&Gynaecology	
PA30.3	Describethepathogenesis, etiology, pathology, diagnosis and pr	Obstetrics	
	ogressionand spread of carcinoma of the leiomyomas and leiomyosarcomas	&Gynaecology	
PA30.4	Classify and describe the etiology, pathogenesis, pathology,	Obstetrics	
	morphology,clinicalcourse,spreadandcomplicationsofovaria ntumors	&Gynaecology	
PA30.5	Describetheetiology, pathogenesis, pathology, morphology, cli	Obstetrics	
	nical course, spread and complications of gestational trophoblastic neoplasms	&Gynaecology	
PA30.6	Describetheetiologyandmorphologicfeaturesofcervicitis	Obstetrics &Gynaecology	
PA30.7	Describetheetiology, hormonal dependence, features and	Obstetrics	
	morphology of endometriosis	&Gynaecology	
PA30.8	Describetheetiologyandmorphologicfeaturesofadenomyosis	Obstetrics	
		&Gynaecology	
PA30.9	Describetheetiology,hormonaldependenceandmorphologyof	Obstetrics	
	endometrial hyperplasia	&Gynaecology	
PH1.39	Describe mechanism of action, types, doses, side effects,	Obstetrics	
	indicationsandcontraindicationsofthedrugsusedforcontracep tion	&Gynaecology	
PH1.40	Describe mechanism of action, types, doses, side effects,	Obstetrics	
	indicationsandcontraindicationsof1.Drugsusedinthetreatme	&Gynaecology	
	nt of infertility, and 2. Drugs used in erectile dysfunction		

Number	COMPETENCY	Vertical	Horizonta
	Thestudentshouldbeableto:	Integration	1
			Integratio
			n
PH1.41	Describe the mechanisms of action, types, doses, side	Obstetrics	
	effects,	&Gynaecology	
	indicationsandcontraindicationsofuterinerelaxantsandstimul ants		
CM9.2	Define, calculate and interpret demographic indices including bi	Obstetrics	
	rth rate, death rate, fertility rates	&Gynaecology	
		, Pediatrics	
CM9.5	Describethemethodsofpopulationcontrol	Obstetrics	
		&Gynaecology	
CM10.1	DescribethecurrentstatusofReproductive,maternal,newborna	Obstetrics	
	nd Child Health	&Gynaecology	
		, Pediatrics	
CM10.2	Enumerateanddescribethemethodsofscreeninghighriskgroup	Obstetrics	
	s and common health problems	&Gynaecology	
		, Pediatrics	
CM10.3	Describelocalcustomsandpracticesduringpregnancy, childbirt	Obstetrics	
	h, lactation and child feeding practices	&Gynaecology	
		, Pediatrics	
CM10.4	Describethereproductive, maternal, newborn&childhealth	Obstetrics	
	(RMCH); child survival and safe motherhood	&Gynaecology	
	interventions	, Pediatrics	
FM3.13	Describe different types of sexual offences. Describe	Obstetrics	
	various sections of IPC regarding rape including definition	&Gynaecology	
	of rape (Section 375 IPC), Punishment for Rape (Section		
	376 IPC) and recent amendments notified till date.		

Number	COMPETENCY The student should be able to:	Vertical Integration	Horizontal Integration
FM3.14	SEXUALOFFENCES Describe and discuss the examination of the victim of an alleged case of rape, and the preparation of report, framing the opinion and preservation and despatch of trace evidences in such cases.	, Psychiatry	
FM3.15	SEXUALOFFENCES Describe and discuss examination of accused and victim of sodomy, preparation of report, framing of opinion, preservation and despatch of trace evidences in such cases	• ••	
FM3.16	SEXUALOFFENCES Describe and discuss adultery and unnatural sexual offences- sodomy, incest, lesbianism, buccal coitus, bestiality, indecent assault and preparation of report, framing the opinion and preservation and despatch of trace evidences in such cases.	Obstetrics &Gynaecology	
FM3.17	Describe and discuss the sexual perversions fetishism, transvestism, voyeurism, sadism, necrophagia, masochism, exhibitionism, frotteurism, Necrophilia.		
FM3.18	Describe anatomy of male and female genitalia, hymen and its types. Discuss the medico-legal importance of hymen. Define virginity, defloration, legitimacy and its medico legal importance.	Obstetrics &Gynaecology	
FM3.19	Discuss the medico legal aspects of pregnancy and delivery, signs of pregnancy, precipitate labour superfoctation, superfecundation and signs of recent and remote delivery in living and dead	Obstetrics &Gynaecology	
FM3.20	Discuss disputed paternity and maternity	Obstetrics &Gynaecology	
FM3.21	Discuss Pre-conception and Pre Natal Diagnostic Techniques (PCPNDT)- ProhibitionofSexSelectionAct2003andDomestic Violence Act 2005	Obstetrics &Gynaecology , AETCOM	

Number	COMPETENCY	Vertical	Horizontal
	Thestudentshouldbeableto:	Integration	Integration
FM3.22	1 2		
FM3.23	Discuss Sterilization of male and female, artificial insemination, Test Tube Baby, surrogate mother, hormonal replacement therapy with respect to appropriate national and state laws	Obstetrics &Gynaecology	
FM3.24	Discuss the relative importance of surgical methods of contraception (vasectomy and tubectomy) as methods of contraception in the national family Planning Programme		
FM3.25	SURVAY	Obstetrics &Gynaecology	
FM3.26		Obstetrics &Gynaecology	
FM3.27	Define, classify and discussabortion, methods of procuring MTP and criminal abortion and complication of abortion: MTP Act 1971	Obstetrics &Gynaecology , AETCOM	
FM3.28	e ,	Obstetrics &Gynaecology , AETCOM	
OR10.11		Obstetrics &Gynaecology	

Number	COMPETENCY The student should be able to:	Vertical Integration	Horizontal Integration
IM26.43	Identify, discuss and defend medico legal, sociocultural, economic and ethical issues as they pertain to in vitro fertilisation donor insemination and surrogate motherhood	Obstetrics& Gynaecology	
RD1.13	Describe the components of the PC&PNDTActandits medicolegal implications	Obstetrics &Gynaecology , Forensic Medicine	
PE7.1	Awareness on the cultural beliefs and practices of breastfeeding		Obstetrics &Gynaecology
PE7.7	Perform breast examination and identify common problems during lactation such as retracted nipples, cracked nipples, breast engorgement, breast abscess		Obstetrics &Gynaecology
PE7.8	Educate mothers on antenatal breast care and prepare mothers for lactation		Obstetrics &Gynaecology , AETCOM
PE7.9	Educate and counsel mothers for best practices in breast feeding		Obstetrics &Gynaecology , AETCOM
PE18.1	List and explain the components, plans ,outcomes of Reproductive Child Health (RCH) program and appraise the monitoring and evaluation	Communit y Medicine	Obstetrics &Gynaecology
PE18.2	Explain preventive interventions for Child survival and safe motherhood	Communit y Medicine	Obstetrics &Gynaecology

Number	COMPETENCY Thestudentshouldbeableto:	Vertical Integration	Horizontal Integration
PE18.3	and apply at-risk approach in antenatal care	Communi ty Medicine	Obstetrics &Gynaecology
PE18.4	simulated environment	Communi ty Medicine	Obstetrics &Gynaecology
PE18.5	Provide intra-natal care and observe the conduct of a normal delivery		Obstetrics &Gynaecology
PE18.6	provide advice on breast feeding, weaning and on family	Communi ty Medicine	Obstetrics &Gynaecology
PE18.8	Rural Health Centre	Communi ty Medicine	Obstetrics &Gynaecology
PE20.6	Explain the follow up care for neonates including Breastfeeding, temperature maintenance, immunization, importance of growth monitoring and red flags		Obstetrics &Gynaecology
PE32.6	Discuss the genetic basis, risk factors, clinical features, complications, prenatal diagnosis, management and genetic counselling in Turner's Syndrome		GeneralMedicin e, Obstetrics &Gynaecology
PE32.8	Interpret normal Karyo type and recognize the Turner Karyo type		GeneralMedicin e, Obstetrics &Gynaecology
PE32.9	Discuss the referral criteria and multi disciplinary approach to management of Turner Syndrome		GeneralMedicin e, Obstetrics &Gynaecology

Number	COMPETENCY		Horizontal
	The student should be able to:	Integratio n	Integration
RT4.5	Describe and discuss role of radiation in management of common malignancies in India (region specific)	Pathology	GeneralSurg ery, Obstetrics &Gynaecolo
RT4.6	Describe and discuss radiotherapy for benign disease	Pathology	gy GeneralSurg ery, Obstetrics &Gynaecolo gy
RT4.7	Counsel patients regarding acute and late effects of radiation and supportive care	Pathology	GeneralSurg ery, Obstetrics &Gynaecolo gy
RT4.8	Describe oncological emergencies and palliative care		GeneralSurg ery, Obstetrics &Gynaecolo gy
RT5.1	Describe and discuss cancer prevention, screening, vaccination, cancer registry	Pathology	GeneralSurg ery, Obstetrics &Gynaecolo gy

5. AETCOM Competencies

The development of ethical values and overall professional growth as integral part of curriculum shall be emphasized through a structured longitudinal and dedicated programme on professional development including attitude, ethics, and communication which is called the AETCOM module. The purpose is to help the students apply principles of bioethics, systems-based care, apply empathy and other human values in patient care, communicate effectively with patients and relatives and to become a professional who exhibits all these values. This will be a longitudinal programme spread across the continuum of the MBBS programme including internship. MBBS Phase 3 Part 2, has to complete 8 modules of 5hours each. The OBGyne faculty will have the responsibility of conducting 2-3 modules as per the decision and logistics of each institution.

AETCOM Competencies for Third Year (PartII)

Subject	Competenc y Number	Competency
Obstetrics and Gynecology	4.2	The student should be able to: Identify, discuss and defend medico-legal, socioeconomic and ethical issues as it pertains to abortion / Medical Termination of Pregnancy and reproductive rights
	4.7	The student should be able to: Identify conflicts of interest in patient care and professional relationships and describe the correct response to these conflicts
	4.8A	The student should be able to: Identify conflicts of interest in patient care and professional relationships and describe the correct response to the seconflicts.
	4.8B	The student should be able to: Demonstrate empathy to patient and family with a terminal illness in a simulated environment.
Pediatrics	4.9A	The student should be able to: Identify, discuss and defend medico-legal, socio- cultural, professional and ethical issues pertaining to medical negligence
	4.9B	The student should be able to: Identify, discuss and defend medico-legal, socio- cultural, professional and ethical issues pertaining to malpractice

6. Marks distribution of theory, practical, ECE, SGL, SDL, etc.

Marks allotted : theory

Total marks

200 marks

2 papers of 100 marks each for Obstetrics and Gynecology. The pattern of each question paper is given below

Structured Essay questions 2X15= 30 marks Short Answer questions 10x5=50 marks MCQs 20x1=20marks

Distribution of Marks for Practical Examinations:

Obstetrics case	75
Gynecology case	75

Department of OBGY

Final MBBS Year 3, Part II

S N o	R ol l N o.	Name of Stude nt	Formative Assessment Theory			Continuous Internal Assessment Theory						Total
			1 st PCT The ory	2 nd PCT The ory	Prelims Theory (Paper 1 and Paper 2)	Home Assign ment	Continuo us Class Test (LMS)	Sem inar	Mus eum Stud y	Library Assignm ents	Atte ndan ce The ory	
								Self Directed Learning				
			100	100	200	15	30	15	15	15	10	500

Professor & Head:

Department of _____

Name of Institute:

Department of OBGY

Final MBBS, Part II

S	Rol 1	Nam e of		ve Assessr	nent	Continuous Internal Assessment (Practical)			Total			
N	I No	Stud	Theory									
0		ent										
			1 st PCT Practi cal / First Ward Leavi ng Exami nation	2 nd PCT Practica 1/ Second Ward Leavin g Examin ation	Prelims Practica 1	Log Book	(200)			Journal (Record book/ Portfoli o)	Atte ndan ce (Pra ctica l)	
			hatton			Certifiab le Skill based Compete ncies (through OSPE/O SCE/Spo ts/ Exercise/ Other)	AET CO M Com pete ncie s	SVL Lab Activit y	Rese arch			
			100	100	200	100	40	40	20	40	10	650

Professor & Head:

Department of _____

Name of Institute:

7. Examination

a. Assessment methods for theory:

The examinations shall be organised on the basis of grading or marking system to evaluate and to certify the student's level of knowledge, skill, and competency at the end of the training.

The theory paper should include different types such as structured essay(direct or case based), Short Answers Questions (SAQ) and MCQs (Multiple Choice Questions). Marks for each part should be indicated separately.

A minimum of **80%** of the marks should be from the **must know** component of the curriculum. A maximum of **20%** can be from the **desirable to know** component. All **main essay questions** to be from the **must know component** of the curriculum.

One main essay question to be of the **modified variety** containing a clinical case scenario. At least 30% of questions should be clinical case scenario based. Questions to be constructed to test higher cognitive levels.

- b. Assessment methods for practical
 - Clinical examinations will be conducted in the hospital wards. Clinical cases kept in the examination must be common conditions that the learner may encounter as a physician of first contact in the community. Selection of rare syndromes and disorders as examination cases is to be discouraged. Emphasis should be on candidate's capability to elicit history, demonstrate physical signs, write a case record, analyze the case and develop a management plan.
 - Viva/oral examination should assess approach to patient management, emergencies, attitudinal, ethical and professional values. Candidate's skill in interpretation of common investigative data, X-rays, instruments, family welfare, identification of specimens, fetal skull and dummy pelvis, ECG, etc. is to be also assessed.
 - At least one question in each paper of the clinical specialties in the University examination should test knowledge competencies acquired during the professional development programme. Skill competencies acquired during the Professional Development Programme must be tested during the clinical, practical and viva voce.

• Topics and marks distribution matrix for PAPER-I

 General Obstetrics – Section –A (50 Marks) (10 MCQ, 1 Essay, 5 Short Notes)LabourandNeonatology–Section-B(50Marks)(10MCQ,1Essay,5ShortNotes)

S.No	TOPICS	Competency Number	No. of MCQs	Weighta ge in%	LAQ	SA Q
1.	Unit 1- Unit - 5Demographic and Vital Statistics, Anatomy of the femalereproductive tract (Basic anatomy and embryology, Physiology of conception, Development of the fetus and the placenta, Preconception counselling	OG1.1,OG1.2,OG1.3, OG2.1,OG3.1,OG4.1,OG5.1	3-5	18-20	*	~
2.	Unit6–Unit–8 : Diagnosis of pregnancy, Maternal Changes in pregnancy, Antenatal Care	OG 6.1,OG 7.1, OG8.1,OG8.2,OG8.3,OG8.4,O G 8.5,OG8.6,OG8.7.OG8.8	3-5	18-20	✓	*
3.	Unit 9– Unit 12:Complications in early pregnancy, :Antepartum haemorrhage, Multiple pregnancy, Medical	OG9.1,,9.3,9.4,9.5,OG10.1,OG10.2, OG11.1,OG12.1,OG 12.2,OG12.3,OG12.4,OG 12.5,OG12.6,OG12.7	5	20-25	✓	*

	Disordersinpregnancy					
4.	Unit13,14,15,16,19,20 Labour, Abnormal Lieand Presentation; Maternal Pelvis, Operative Obstetrics, Complications of third stage of labour, Normal and abnormal puerperium, Medical termination of pregnancy	OG13.1- 13.5,OG14.1,OG15.1,OG15 .2,OG16.3,,OG 19.2,OG19.3,OG19.4,OG20.2	5	20-25	×	~
5.	Unit17and 18 Lactation, Care of the newborn	OG17.2,OG`18.2	2-5	5-10	NO	~
6.	AETCOM			5	NO	~

• Topics and marks distribution matrix for PAPERII

S. No	TOPICS	Competency Number	No. ofM CQs	Weightag ein%	LAQ	SAQ
1	UNIT21,22,23 Contraception, :Vaginal discharge , Normal and abnormal puberty	OG21.1,OG21.2,OG22.1OG ,22.2,OG23.1,OG23.2,OG23 .3	3 - 5	10-15	NO	~
2	UNIT24,25,29 Abnormal uterine bleeding, Amenorrhea, Uterine fibroids	OG24.1,OG25.1,OG29.1	5	15-20	V	~
3	UNIT26,27,28 Genital injuries and fistulae, Genital infections, :Infertility	OG26.1,OG26.2.OG27.1,OG27.2 ,OG27.3,OG 27.4,OG28.1,OG28.2,OG28.3,O G28.4	3 - 5	10-15	V	~
4	UNIT 30,UNIT31,UNIT 32: PCOS and hirsutism, Uterineprolapse,: Menopause	OG30.1,OG30.2,OG31.1,O G32.1,OG32.2	5	25-30	~	~
5	UNIT33,34 Benign, Pre-malignant (CIN)and Malignant Lesions of the Cervix, Benign and malignant diseases of the uterus and the ovaries	OG33.1,OG33.2,OG33.3,O G33.4,OG34.1,OG34.2,OG3 4.3,OG 34.4	4 - 5	20-25	~	~

- 8. Recommended books:
 - Obstetrics:
 - 1. Mudaliar and Menon's Clinical Obstetrics-13th edition
 - 2. William's Textbook of Obstetrics-26th edition
 - 3. D C Dutta's Textbook of Obstetrics including Perinatology and Contraception-10th edition
 - Gynaecology:
 - 1. Shaw's Textbook of Gynaecology-18th edition
 - 2. D C Dutta's Textbook of Gynaecology-9th edition
 - 3. Williams textbook of Gynecology-4th edition
- 9. Reference books:
 - Obstetrics:
 - 1. James' Textbook of High Risk Obstetrics-4th edition
 - 2. Ian Donal Textbook of High Risk Pregnancy-8th edition
 - 3. Munro Kerr's Textbook of Operative Obstetrics-13th edition
 - 4. Daftary and Chakravarthy's Manual of Obstetrics-4th edition
 - Gynaecology:
 - 1. Novak's Textbook of Gynaecology-17th edition
 - 2. TeLindes Textbook of Operative Gynaecology-12th edition
 - 3. Jaeffcot's Textbook of Gynaecology-9th edition
- 10. Division of syllabus along with marks for MBBS

Paper 1- Obstetrics and Social Obstetrics-100 marks

Paper 2 – Gynaecology including Family Planning -100 marks

11. Model Question Papers

SAMPLE FOR A 100-MARK THEORY QUESTION PAPER

OBSTETRICS INCLUDING SOCIAL OBSTETRICS

No.	Structured Questions	(15x2=30)
1.	 Primigravida with 33 weeks of gestation came with pedal edema and BP of 150/100mmhg. What is the diagnosis? a) Classify hypertensive disorders of pregnancy. b) What is the pathophysiology of preeclampsia. c) How will you manage a case. 	(5+5+5)
2.	G2P1L1 with twin gestation at 34 weeks came with complaints of bleeding per vaginum ?	(5+5+5)
	a) Define ante partum haemorrhage? b) How will you differentiate? c) Outline the treatment of placenta previa at term in labour?	(5x10=50)
	Short Essay Questions	()
3.	Diagnosis and management of iron deficiency anemia at 32 weeks of gestation?	
4.	Enumerate on Peripartum cardiomyopathy.	
5.	A Grand multi delivered and presented with shock.	
	A]Discuss the causes B]Management of atonic PPH C]Prevention of PPH	
6.	A Primigravida with 2 months of amenorrhoea presents with abdominal pain and bleeding per vaginum.the differential diagnosis. Outline the management of threatened abortion.	
7.	Define normal labour. Describe three stage of labour. Management of 3 rd stage of labour.	
8.	Define ectopic pregnancy? Classification of ectopic pregnancy? Medical management of unruptured tubal ectopic pregnancy?	
9.	Define Hyperemesis gravidarum? Management of Hyperemesis gravidarum?	
10.	Write short notes on cephalhematoma ?	

11. Management of birth asphyxia ?

12. Write short notes of instrumental delivery ?

	MCQ's	1x2	0=20
1	 Diagnosis of down syndrome at 11 weeks is best assessed by A. Ultrasonography B. Amniocentesis C. Chorionic villous biopsy D. Doppler ultrasound 	()
2	DOC for PIH is: A. Atenolol B. Nitroprusside C. Enalapril D. Alpha methyldopa	()
3	Modified BPS consists of A. NST with AFI B. NST with fetal breathing C. Nst with fetal movement D. Nst with fetal tone	()
4	 The shortest AP diameter of pelvic inlet A. True conjugate B. Obstetric conjugate C. Anatomical conjugate D. Bisterous conjugate 	()
5	Best time to give Anti-D to a pregnant patient:A. 12 weeksB. 28 weeksC. 36 weeksD. After delivery	()
6	 What is the level of proteinuria to diagnose severe pre eclampsia: A. 20mg B. 200mg C. 300mg D. 2000mg 	()
7	Which type of pelvis is associated with increased incidence of 'face to pubis' delivery? a. Gynaecoid pelvis b. Anthropoid pelvis c. Android pelvis d. Platypelloid pelvis	()
8	A case of 35 week pregnancy with hydramnios and marked respiratory distress is best treated by: a. Intravenous frusemide b. Saline infusion	()

c. Amniocentesis

d.Artificial rupture of membranes

9	 Which one of the following methods for induction of labour should not be used in patient with previous lower segment caesarean section? a. Prostaglandin gel b. Prostaglandin tablet c. Stripping of the membrane d. Oxytocin drip 	()
10	Contraceptive method of choice in lactating mothers is: a. Barrier method b. Progesterone only pill c. Oral contraceptive pills d. Lactational amenorrhea	()
11	A gravida 3 female with H/o 2 previous 2nd trimester abortion presents at 22 weeks of gestation with funneling of cervix. Most appropriate management would be: a. Administer dinoprostone and bed rest b. Administer misoprostol and bed rest c. Apply fothergill stretch d. Apply McDonald stitch	()
12	Conservative management is contraindicated in a case of placenta previa under the following situations, except: a. Evidence of fetal distress b. Fetal malformations c. Mother in a hemodynamically stable condition d. Women in labour	()
13	False regarding PPH: a. Type B lynch suture used b. With new advances both atonic and traumatic PPH can be reduced c. Associated with polyhydramnios d. Mifepristone used	()
14	 Indications of urgent delivery of the second baby in twin are all except: a. Abruptio placentae b. Cord prolapse of the second baby c. Inadvertent use of IV ergometrine with the delivery of the anterior shoulder of the first baby d. Breech presentation of the second baby 	()
15	Most common congenital malformation seen in a diabetic pregnant woman amongst the following are: a. Cardiac defect b. Renal defect c. Liver defect d. Lung defec	()

16	Intrahepatic cholestasis treatment in pregnancy is: a. Cholestyramine b. Ursodiol c. Steroids d. Antihistamines	()	
17	Highest rate of transmission of toxoplasmosis during pregnancy is seen in:a. Ist trimesterb. IInd trimesterc. IIIrd trimesterd. Puerperium	()	
18	A pregnant woman with fibroid uterus develops acute pain in abdomen with low grade fever and mild leucocytosis at 28 weeks. The most likely diagnosis is: a. Preterm labour b. Torsion of fibroid c. Red degeneration of fibroid d.Infection of fibroid	()	
19	True statement regarding use of antiepileptic drugs in pregnancy except: a. Valproate is associated with NTD b. Multiple drug should be given c. Carbamazepine is used as monotherapy d. Phyenytoin can produce foetal hydantoin syndrome	()	
20	Fundal height is more than period of gestation in all except:a. Hydramniosb. IUDc. Twin pregnancyd. Hydatidiform mole	()	
GYNA	ECOLOGY INCLUDING FAMILY PLANNING			
	ECOLOGY INCLUDING FAMILY PLANNING Structured Questions			15x2=30
GYNA No. 1.				15x2=30 (5+5+5)
No.	Structured QuestionsA 30 Years old women presents with Heavy menstrual bleeding.a) Discuss the differential diagnosis.b) Define menorrhagia.			
No. 1.	 Structured Questions A 30 Years old women presents with Heavy menstrual bleeding. a) Discuss the differential diagnosis. b) Define menorrhagia. c) How will you manage this case? 55 year old women came with complaints of bleeding PV after 10 years of menopause. a) What are the causes of postmenopausal bleeding? b) How will you investigate such a case? 			(5+5+5)
No. 1.	 Structured Questions A 30 Years old women presents with Heavy menstrual bleeding. a) Discuss the differential diagnosis. b) Define menorrhagia. c) How will you manage this case? 55 year old women came with complaints of bleeding PV after 10 years of menopause. a) What are the causes of postmenopausal bleeding? b) How will you investigate such a case? c) What is the treatment of stage 1B cancer cervix? 		f	(5+5+5) (5+5+5)
No. 1. 2.	 Structured Questions A 30 Years old women presents with Heavy menstrual bleeding. a) Discuss the differential diagnosis. b) Define menorrhagia. c) How will you manage this case? 55 year old women came with complaints of bleeding PV after 10 years of menopause. a) What are the causes of postmenopausal bleeding? b) How will you investigate such a case? c) What is the treatment of stage 1B cancer cervix? Short Essay Questions Define PID? Mention the organisms causing PID. How will you manage a complexity of the provide the provi	ase of	F	(5+5+5) (5+5+5)

6 A couple present with infertility

a]describe the normal semen parameters.b]how will you investigate female partner?c]how will you induce ovulation?

- 7 Various methods of MTP in the first trimister
- 8 FIGO classification of fibroid uterus. Medical management of fibroid uterus.
- 9 Physiology of menstrual cycle.
- 10 Write short notes on screening on carcinoma cervix.
- 11 Classification of benign ovarian tumors. Write short notes on epithelial ovarian tumors.
- 12 19 year old female patient presented to OPD with complaints of irregular cycles, history of Hirsutism and acne present. Write differential diagnosis ? Criteria for PCOD? How will you manage the case.

MCQ'S (1x20=20)1 All of the following changes occurs after ovulation except:) A. Rise in basal body temperture B. Subnuclearvacuolation D. Navicular cells in vaginal cytology C. LH surge 2 Day of ovulation () A. 14 days before next menstruatiom B. 14 days after menstruation C. 10 days after menstruation D. 18 days after menstruation 3 For which of the following bleeding patterns are progesterone not) (recommended? A. Anovulatory cyclical bleeding B. Anovulatory prolonged cycle C. Ovulatory heavy cycles D. Premenstrual spotting 4 A 58 year old woman, post menopausal for last 8 years comes with h/o spotting) (per vagina.what is the most likely cause? a. Endometrial hyperplasia b. Endometrial cancer c. Atrophic endometrium d. ERT 5 HRT is C/I in : () Atherosclerosis a. b. Osteoporosis Urogenital atrophy c. Venous thromboembolism c. 6 In which of the following conditions Mullerian system is present?) (a. MRKH syndrome b. Klinifelter syndrome c. Sweyers syndrome d. Testicular feminization syndrome 7 In testicular feminizing syndrome gonadectomy is indicated: () a.As soon as it is diagnosedb.At puberty c.Only when malignancy develops in itd.Whenhirsutism is evident 8 Primary amenorrhea can be caused by following karyotypes except:) (a. 45XO b. 47XXX c. 46XY d. 45XO/46XX

9	The nonvalent HPV vaccine Against which strains of viruses a. 16,18,31,33,45,52,56,68 b. 6,8,16,18,30,32,46,53,59,69 c. Only 6,8,16,18,32,33 d. Only 6,8,16,18,30,32	()
10	Climacteric is related to : a. Menstruation b. Menarche c. Menopause d. none	()
11	Dose of ulipristal as emrgency contraception a. 3mg b. 30mg c. 300mg d. 300mcg	()
12	Fitz high curitis syndrome is present in the following: a. Monoliasis b. Syphilis c. TB d. Gonorrhea	()
13	MC organism leading to bartholin abscess: a. Treponemapallidum b. T.Vaginalis c. N.gonorrhae d. Lymphoenavenerum	()
14	With respect to genuine stress incontinence , the treatment of choice is:a. Kegels exerciseb. Busch colposuspensionc. TVTd. Periurethral injection of bulking agent	()
15	If 20 women become pregnant out of 100 women using a contraceptive agent for 2 years. Pearl index is : a. 10 b. 20 c. 30 d. 40	()
16	All of the following may occur in a female exposed to DES in utero except :a. T shaped uterusb. Clean cell carcinomac. Vaginal adnosisd. Renal anomalies	()
17	All are complications of fibroids in pregnancy except :a. Red degenerationb. Obstructed labourc. PPHd. Placenta previa	()
18	A 45 year old P2L2 female has CIN grade 3 confirmed on papsmear and colposcopy.Best management is : a. Conization b. LEEP c. Cryosurgery d. Hysterectomy	()
19	Which of the following is not a characteristic of MRKH syndrome:a. Cardiac anomaliesb. Mullerian duct anomaliesc. Renal anomaliesc. Skeletal anomalies	()
20	VVF due to obstructed labor occurs within : a. 24 hrs b. 5 days c. 48 hrs d. 2 weeks	()

DEPARTMENT OF PAEDIATRICS

GOAL

- Clinician who understands and provides preventive, promotive, curative, palliative and holistic carewith compassion.
- Leader and member of the health care team and system with capabilities to collect, analyze, synthesize and communicate health data appropriately.
- Communicator with patients, families, colleagues and community.
- Lifelong learner committed to continuous improvement of skills and knowledge.
- Professional, who is committed to excellence, is ethical, responsive and accountable to patients, community and profession.

The broad goal of the teaching of undergraduate students in Pediatrics is to produce graduates capable of delivering efficient first contact Pediatric care. The aim of teaching the undergraduate student in Pediatrics is to impart such knowledge and skills that may enable him to diagnose and treat common childhood illnesses including neonatal disorders. He/she shall acquire competence for clinical diagnosis based on history, physical examination and relevant laboratory investigations and institute appropriate line of management; this would include diseases common in tropics (parasitic, bacterial or viral infections, nutritional disorders, including dehydration and electrolyte disturbances) and various system illnesses.

COMPETENCIES

The student must demonstrate:

- Ability to assess and promote optimal growth, development and nutrition of children and adolescents and identify deviations from normal,
- Ability to recognize and provide emergency and routine ambulatory and First Level Referral Unit care for neonates, infants, children and adolescents and refer as may be appropriate,
- Ability to perform procedures as indicated for children of all ages in the primary care setting,
- Ability to recognize children with special needs and refer appropriately,
- Ability to promote health and prevent diseases in children,
- Ability to participate in National Programmes related to child health and in conformation with the Integrated Management of Neonatal and Childhood Illnesses (IMNCI)Strategy,
- Ability to communicate appropriately and effectively.

OBJECTIVES

Knowledge

At the end of the course, the student shall be able to

- Demonstrate knowledge of national and regional health care policies including the National Health Mission that incorporates National Rural Health Mission (NRHM) and National Urban Health Mission (NUHM), frameworks, economics and systems that influence health promotion, health care delivery, disease prevention, effectiveness, responsiveness, quality and patient safety.
- Demonstrate ability to elicit and record from the patient, and other relevant sources including relatives and caregivers, a history that is complete and relevant to disease identification, disease prevention and health promotion.
- Demonstrate ability to elicit and record from the patient, and other relevant sources including relatives and caregivers, a history that is contextual to gender, age, vulnerability, social and economic status, patient preferences, beliefs and values.
- Demonstrate ability to perform a physical examination that is complete and relevant to disease

identification, disease prevention and health promotion.

- Demonstrate ability to perform a physical examination that is contextual to gender, social and economic status, patient preferences and values.
- Demonstrate effective clinical problem solving, judgment and ability to interpret and integrate available data in order to address patient problems, generate differential diagnoses and develop individualized management plans that include preventive, promotive and therapeutic goals.
- Demonstrate ability to choose the appropriate diagnostic tests and interpret these tests based on scientific validity, cost effectiveness and clinical context.
- Demonstrate ability to prescribe and safely administer appropriate therapies including nutritional interventions, pharmacotherapy and interventions based on the principles of rational drug therapy, scientific validity, evidence and cost that conform to established national and regional health programmes and policies for the following:

• Demonstrate ability to appropriately identify and refer patients who may require specialized or advanced tertiary care.

Skills

- Demonstrate the steps of inserting an IV cannula in a model.
- Demonstrate the steps of inserting an interosseous line in a Mannequin.
- Provide intra-natal care and conduct a normal delivery in a simulated environment.
- Demonstrate the correct administration of different vaccines in a mannequin.
- Perform Neonatal resuscitation in a manikin.
- Perform NG tube insertion in a manikin.
- Perform IV cannulation in a model.
- Perform Interosseous insertion model.
- Demonstrate the technique of liver biopsy in a Perform Liver Biopsy in a simulated environment.
- Observe the various methods of administering Oxygen.
- Assess airway and breathing. Demonstrate the method of positioning of an infant & child to openairway in a simulated environment.
- Assess airway and breathing: administer oxygen using correct technique and appropriate flow rate.
- Assess airway and breathing: perform assisted ventilation by Bag and mask in a simulated environment.
- Secure an IV access in a simulated environment.
- Provide BLS for children in manikin.
- Demonstrate performance of bone marrow aspiration in manikin.
- Perform in a mannequin lumbar puncture. Discuss the indications, contraindication of the procedure.
- Observe administration of Nebulisation.

Attitude and communication

- Communication with empathy to patients & patient's attenders.
- To counsel & obtain informed consent from patient & patients attenders.

Integration

The teaching should be aligned and integrated horizontally and vertically in order to provide comprehensive care for neonates, infants, children and adolescents based on a sound knowledge of growth, development, disease and their clinical, social, emotional, psychological correlates in the context of national health priorities.

SYLLABUS

Reference:

Medical Council of India, Competency Based Undergraduate Curriculum for the Indian Medical

List of all Paediatrics competencies with their specific learning objectives, with suggested teaching-learning and assessment methods:

Theory Syllabus:

Sl. No.	Topic code	Торіс	Method of teaching
	PE1.1	Define the terminologies Growth and development and discuss the factors affecting normal growth and development	
1	PE1.2	Discuss and describe the patterns of growth in infants, children and adolescents	LGT
	PE1.5	Define development and discuss the normal developmental mile stones with respect to motor, behaviour, social, adaptive and language	
	PE1.6	Discuss the methods of assessment of development	
	PE6.1	Define Adolescence and stages of adolescence	
2	PE6.2	Describe the physical, physiological and psychological changes during adolescence (Puberty)	LGT
	PE6.3	Discuss the general health problems during adolescence	
	PE7.1	Awareness on the cultural beliefs and practices of breast feeding	
	PE7.2	Explain the physiology of lactation	
3	PE7.3	Describe the composition and types of breast milk and discuss the differences between cow's milk and Human milk	LGT
	PE7.4	Discuss the advantages of breast milk	
	PE7.6	Enumerate the baby friendly hospital initiatives	
	PE9.1	Describe the age related nutritional needs of infants, children and adolescents including micronutrients and vitamins	
4	PE9.2	Describe the tools and methods for assessment and classification of nutritional status of infants, children and adolescents	LGT
	PE9.3	Explains the Calorific value of common Indian foods	1

3rd MBBS Part I Theory for the Department of Pediatrics Total:25 hrs

	PE17.1	State the vision and outline the goals, strategies and plan of action of NHM and other important national programs pertaining to maternal and child health including RMNCH A+, RBSK, RKSK, JSSK mission Indradhanush and ICDS	
	PE18.1	List and explain the components, plan, outcome of Reproductive Child Health (RCH) program and appraise its monitoring and evaluation	
5	PE18.2	Explain preventive interventions for child survival and safe motherhood	LGT
	PE18.4	Provide intra-natal care and conduct a normal delivery in a simulated environment	
	PE18.5	Provide intra-natal care and observe the conduct of a normal delivery	
	National	Programs, RCH-Universal immunizations Program	
	PE19.1	Explain the components of the Universal Immunization Program and the National Immunization Program	
	PE19.2	Explain the epidemiology of Vaccine preventable diseases	
6	PE19.3	Vaccine description with regard to classification of vaccines, strain used, dose, route, schedule, risks, benefits and side effects, indications and contraindications	LGT
	PE19.5	Discuss immunization in special situations – HIV positive children, immunodeficiency, pre-term, organ transplants, those who received blood and blood products, splenectomised children, adolescents, travellers	
		Diarrheal diseases and Dehydration	
	PE24.1	Discuss the etio-pathogenesis, classification, clinical presentation and management of diarrheal diseases in children	
07	PE24.2	Discuss the classification and clinical presentation of various types of diarrheal dehydration	LOT
07	PE24.3	Discuss the physiological basis of ORT, types of ORS and the composition of various types of ORS	LGT
	PE24.5	Discuss the role of antibiotics, antispasmodics,	
		anti-secretory drugs, probiotics, anti-emetics in acute diarrheal diseases	
	PE24.6		

	PE24.8	Discuss the causes, clinical presentation and	
		management of dysentery in children	
	,	Vaccine Preventaable diseases-Tuberculosis	
	PE34.1	Discuss the epidemiology, clinical features, clinical types, complications of Tuberculosis in Children and Adolescents	
00	PE34.2	Discuss the various diagnostic tools for childhood tuberculosis	LOT
09	PE34.3	Discuss the various regimens for management of Tuberculosis as per National Guidelines	LGT
	PE34.4	Discuss the preventive strategies adopted and the objectives and outcome of the National Tuberculosis Control Program	
	PE34.14	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of fever in children	
10	PE34.15	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with exanthematous illnesses like Measles, Mumps, Rubella & Chicken pox	LGT
10	PE34.16	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Diphtheria, Pertussis, Tetanus.	LUI
	PE34.17	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Typhoid	
	PE34.18	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Dengue, Chikungunya and other vector born diseases	
11	PE34.19	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of children with Common Parasitic infections, malaria, leishmaniasis, filariasis, helminthic infestations, amebiasis, giardiasis	LGT
	PE34.20	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Ricketsial diseases	

	3 rd MBBS Part I SGD for the Department of PediatricsTotal 30,				
SL no	Topic code	Topic	Method of teaching		
	Normal Growth and Development				

12	PE1.3 PE1.4	Discuss and describe the methods of assessment of growth including use of WHO and Indian national standards. Enumerate the parameters used for assessment of physical growth in infants, children and adolescents Perform Anthropometric measurements, document in growth charts and interpret	_SGD
13	PE1.7	Perform Developmental assessment and interpret	SGD
		Common problems related to Growth	
	PE2.1	Discuss the etio-pathogenesis, clinical features and management of a child who fails to thrive	SGD
	PE2.4	Discuss the etio-pathogenesis, clinical features and management of a child with short stature	
14	PE2.5	Assessment of a child with short stature: Elicit history, perform examination, document and present	SGD
	PE2.6	Enumerate the referral criteria for growth related problems	

		Common problems related to behavior	
15	PE5.10 PE5.11	Discuss the role of child guidance clinic in children with behavioural problems and the referral criteria Visit to Child Guidance Clinic and observe functioning	SGD
	nt Health &	common problems related to Adolescent Health Num	ber of competencies:
13)	PE6.11	Visit to the Adolescent Clinic	SGD
16	PE6.12	Enumerate the importance of obesity and other NCD in adolescents	
	To	promote and support optimal Breast feeding for Infan	nts
	PE7.8	Educate mothers on ante natal breast care and prepare mothers for lactation	
17	PE7.9	Educate and counsel mothers for best practices in Breast feeding	SGD
	PE7.10	Respects patient privacy	-
	PE7.11	Participate in Breast Feeding Week Celebration	-
		Complementary Feeding	
	PE8.1	Define the term Complementary Feeding	
18	PE8.2 PE8.3	Discuss the principles, the initiation, attributes, frequency, techniques and hygiene related to Complementary Feeding including IYCF Enumerate the common complimentary foods	SGD
	1 L0.5		
		Obesity in children	
	PE11.1	Describe the common etiology, clinical features and management of obesity in children	SGT
19	PE11.2	Discuss the risk approach for obesity and discuss the prevention strategies	-
	PE11.6	Discuss criteria for referral	-
	Micronutrie	ents in Health and disease-1 (Vitamins ADEK, B Com	plex and C)
	PE12.6	Discuss the RDA, dietary sources of Vitamin D and their role in health and disease	SGT
20	PE12.7	Describe the causes, clinical features, diagnosis and management of Deficiency / excess of Vitamin D (Rickets and Hypervitaminosis D)	
	PE12.10	Discuss the role of screening for Vitamin D deficiency	

	PE12.11	Discuss the RDA, dietary sources of Vitamin E and	
	1 12.11	their role in health and disease	
	PE12.12	Describe the causes, clinical features, diagnosis and management of deficiency of Vitamin E	
	PE12.13	Discuss the RDA, dietary sources of Vitamin K and their role in health and disease	
	PE12.14	Describe the causes, clinical features, diagnosis management and prevention of deficiency of Vitamin K	
	PE12.15	Discuss the RDA, dietary sources of Vitamin B and their role in health and disease	
	PE12.16	Describe the causes, clinical features, diagnosis and management of deficiency of B complex Vitamins	
	PE12.17	Identify the clinical features of Vitamin B complex deficiency	
	PE12.18	Diagnose patients with Vitamin B complex deficiency and plan management	
	PE12.19	Discuss the RDA , dietary sources of Vitamin C and their role in Health and disease	
	PE12.20	Describe the causes, clinical features, diagnosis and management of deficiency of Vitamin C (scurvy)	
	Natio	onal Programs, RCH - Universal Immunizations prog	ram
	PE19.4	Define cold chain and discuss the methods of safe storage and handling of vaccines	
21	PE19.9	Describe the components of safe vaccine practice – Patient education/ counselling; adverse events	SGD
41		following immunization, safe injection practices, documentation and Medico-legal implications	500
	PE19.10	Observe the handling and storing of vaccines	
	PE19.7	Educate and counsel a patient for immunization	
••	PE19.8	Demonstrate willingness to participate in the National and sub national immunisation days	GCD
22	PE19.11	Document Immunization in an immunization record	SGD
	PE19.15	Explain the term implied consent in Immunization services	
	PE19.12	Observe the administration of UIP vaccines	
23	PE19.13	Demonstrate the correct administration of different vaccines in a mannequin	SGD
	PE19.14	Practice Infection control measures and appropriate handling of the sharps	
24	PE19.16	Enumerate available newer vaccines and their indications including pentavalent pneumococcal, rotavirus, JE, typhoid IPV & HPV	SGD
		Cardiovascular system- Heart Diseases	
	PE23.12	Interpret a chest X ray and recognize Cardiomegaly	
25	PE23.13	Choose and Interpret blood reports in Cardiac illness	SGD

	PE23.14	Interpret Pediatric ECG	
26	PE23.15	Use the ECHO reports in management of cases	- SGD
		Diarrhoeal diseases and Dehydration	
		Diarrnoeal diseases and Denydration	
27	PE24.4	Discuss the types of fluid used in Paediatric diarrheal diseases and their composition	SGD
	PE24.14	Plan fluid management as per the WHO criteria	
20	PE24.15	Perform NG tube insertion in a manikin	
28	PE24.16	Perform IV cannulation in a model	–Skill Lab
	PE24.17	Perform Intraosseous insertion in a model	-
		Acute and chronic liver disorders	
	PE26.9	Interpret Liver Function Tests, viral markers, ultra sonogram report	
29	PE26.10	Demonstrate the technique of liver biopsy in a Perform Liver Biopsy in a simulated environment	SGD
	PE26.11	Enumerate the indications for Upper GI endoscopy	_
		Respiratory system	
20	PE28.8	Discuss the types, clinical presentation, and	
30		management of foreign body aspiration in infants and children	SGD
	PE28.10	Perform otoscopic examination of the ear	
31	PE28.11	Perform throat examination using tongue depressor	SGD(OPD)
	PE28.12	Perform examination of the nose	_
	PE28.16	Interpret blood tests relevant to upper respiratory problems	
32	PE28.17	Interpret X-ray of the paranasal sinuses and mastoid; and /or use written report in case of management	SGD
		Interpret CXR in foreign body aspiration and lower respiratory tract infection, understand the significance of thymic shadow in pediatric chest X-rays	
	PE28.20	Counsel the child with asthma on the correct use of inhalers in a simulated environment	SGD
	And	emia and other Hemato-oncologic disorders in childre	en

	PE29.14	Interpret CBC, LFT	
	PE29.15	Perform and interpret peripheral smear	SGD
	PE29.16	Discuss the indications for Hemoglobin electrophoresis and interpret report	
	PE29.20	Enumerate the indications for splenectomy and precautions	– SGD
		Vaccine preventable Diseases - Tuberculosis	
34	PE34.10	Discuss the various samples for demonstrating the organism e.g. Gastric Aspirate, Sputum , CSF, FNAC	
	PE34.11 PE34.12	Perform AFB staining Enumerate the indications and discuss the limitations of methods of culturing M.Tuberculii	–SGD(Micro Lab) –

3 rd MBBS Part I SDL for the Department of PediatricsTotal :10					
SL no	Topic code	Торіс	Method ofteaching		
	PE5.1	Describe the clinical features, diagnosis and management of thumb sucking	Seminar		
35	PE5.2	Describe the clinical features, diagnosis and management of Feeding problems			
	PE5.3	Describe the clinical features, diagnosis and management of nail biting			
	PE5.4	Describe the clinical features, diagnosis and management of Breath Holding spells			

	PE5.5	Describe the clinical features, diagnosis and	
	1 123.5	management of temper tantrums	
	PE5.6	Describe the clinical features, diagnosis and	
	1 25.0	management of Pica	
	PE5.7	Describe the clinical features, diagnosis and	
		management of Fussy infant	
	PE5.8	Discuss the etiology, clinical features and management of Enuresis	
	PE5.9	Discuss the etiology, clinical features and	
	1 2019	management of Encopresis	
Adoles	scent Health	a & common problems related to Adolescent Health Number of	
		competencies	
	PE6.4	Describe adolescent sexuality and common problems related to it	
2.5	PE6.5	Explain the Adolescent Nutrition and common nutritional problems	
36	PE6.6	Discuss the common Adolescent eating	Seminar
		disorders (Anorexia Nervosa, Bulimia)	
	PE6.7 Describe the common mental health problems		
		during adolescence	
	PE6.10	Discuss the objectives and functions of AFHS	
		(Adolescent Friendly Health Services) and the	
~-		referral criteria	a .
37	PE6.13	Enumerate the prevalence and the importance of	Seminar
		recognition of sexual drug abuse in adolescents	
		and children	
	Cardiovaso	cular system- Heart Diseases	
	PE23.16	Discuss the indications and limitations of Cardiac catheterization	
	PE23.17	Enumerate some common cardiac surgeries like	
•		BT shunt, Potts and Waterston's and corrective	a .
38		surgeries	Seminar
	PE23.18	Demonstrate empathy while dealing with	
		children with cardiac diseases in every patient	
		encounter	
Vac	cine preven	table Diseases - Tuberculosis	I
	PE34.13	Enumerate the newer diagnostic tools for	
		Tuberculosis including BACTEC CBNAAT and	Seminar
39		I UDEICUIUSIS INCIUUNI DACTEC CDNAAT and	Somman

3rd MBBS Part I Clinical Posting for the Department of PediatricsTotal:(4weeks, 6days per week).

Clinical Posting			
SL no	Topic code	Торіс	Method ofteaching
40	PE22.2	Counsel a patient with Chronic illness	

		1	
	PE23.7	Elicit appropriate history for a cardiac disease, analyse	
		the symptoms e.g. breathlessness, chest pain,	
		tachycardia, feeding difficulty, failing to thrive, reduced	
		urinary output, swelling, syncope, cyanotic spells, Suck	
		rest cycle, frontal swelling in infants. Document and present	
	PE23.8	Identify external markers of a cardiac disease e.g.	-
	1 125.0	Cyanosis, Clubbing, dependent edema, dental caries,	
		arthritis, erythema rash, chorea, subcutaneous nodules,	
		Oslers node, Janeway lesions and document	
	PE23.9	Record pulse, blood pressure, temperature and	-
	1 1223.9	respiratory rate and interpret as per the age	
	DE23 10	Perform independently examination of the	-
41	1 123.10	cardiovascular system – look for precordial bulge,	
		pulsations in the precordium, JVP and its significance	СР
		in children and infants, relevance of percussion in Pediatric examination, Auscultation and other system	
		examination and document	
	DE22.11		-
	PE23.11	Develop a treatment plan and prescribe appropriate	
		drugs including fluids in cardiac diseases, anti -failure	
	DE02.10	drugs, and inotropic agents	-
	PE23.12	Interpret a chest X ray and recognize Cardiomegaly	
	PE23.13	Choose and Interpret blood reports in Cardiac illness	-
	PE23.14	Interpret Pediatric ECG	_
	PE23.15	Use the ECHO reports in management of cases	
	PE24.9	Elicit, document and present history pertaining to	
	FE24.9	diarrheal diseases	
	PE24.10	Assess for signs of dehydration, document and present	-
			-
	PE24.11	Apply the IMNCI guidelines in risk stratification	
42	DE0.4.10	of children with diarrheal dehydration and refer	СР
	PE24.12	Perform and interpret stool examination including Hanging Drop	
	PE24.13	Interpret RFT and electrolyte report	-
		Plan fluid management as per the WHO criteria	4
	PE26.5	Elicit document and present the history related to	
	DEAL	diseases of Gastrointestinal system	4
	PE26.6	Identify external markers for GI and Liver disorders	
		e.g Jaundice, Pallor, Gynaecomastia, Spider angioma,	
		Palmar erythema, Icthyosis, Caput medusa, Clubbing,	
	DE267	Failing to thrive, Vitamin A and D deficiency	4
43	PE26.7	Perform examination of the abdomen, demonstrate organomegaly, ascites etc.	СР
	PE26.8	Analyse symptoms and interpret physical signs	4
	1 120.0	to make a provisional/ differential diagnosis	
	PE26.9	Interpret Liver Function Tests, viral markers, ultra	4
	1 120.9	sonogram report	
	PE26.13	Counsel and educate patients and their family	1
		appropriately on liver diseases	
			1

	DDDDD		1
	PE28.9	Elicit, document and present age appropriate history of a	
	2200.40	child with upper respiratory problem including Stridor	4
	PE28.13	Analyse the clinical symptoms and interpret physical	
		findings and make a provisional / differential	
	DE 20.14	diagnosis in a child with ENT symptoms	-
	PE28.14	Develop a treatment plan and document appropriately in	
		a child with upper respiratory symptoms	4
44	PE28.15	Stratify risk in children with stridor using IMNCI	СР
	DE20.16	guidelines	-
	PE28.10	Interpret blood tests relevant to upper respiratory problems	
	PE28-17	Interpret X-ray of the paranasal sinuses and mastoid;	-
	1 120.17	and /or use written report in case of management	
		Interpret CXR in foreign body aspiration and lower	
		respiratory tract infection, understand the significance of	
		thymic shadow in pediatric chest X-rays	
	PF29.10	Elicit, document and present the history related to	
	1 1227.10	Hematology	
	PE29.11	Identify external markers for hematological disorders	-
		e.g., Jaundice, Pallor, Petechiae purpura, Ecchymosis,	
		Lymphadenopathy, bone tenderness, loss of weight,	
		Mucosal and large joint bleed	
45	PE29.12	Perform examination of the abdomen, demonstrate	СР
		organomegaly	
	PE29.13	Analyse symptoms and interpret physical signs	1
		to make a provisional/ differential diagnosis	
	PE29.14	Interpret CBC, LFT	1
	PE29.18	Enumerate the referral criteria for Hematological	
		conditions	
	PE29.19	Counsel and educate patients about prevention and	-
		treatment of anemia	
	PE34.5	Able to elicit, document and present history of	
		contact with tuberculosis in every patient	
		encounter	
	PE34.6	Identify a BCG scar	
	PE34.7	Interpret a Mantoux test	
46			СР
	PE34.8	Interpret a Chest Radiograph	
			_
	PE34.9	Interpret blood tests in the context of laboratory	
		evidence for tuberculosis	_
	PE34.10	Discuss the various samples for demonstrating the	
		organism e.g. Gastric Aspirate, Sputum, CSF, FNAC	
		Video/DOAP	Т
	PE18.4	Provide intra-natal care and conduct a normal delivery	
47	DE10.7	in a simulated environment	DOAP
	PE18.5	Provide intra-natal care and observe the conduct of a	
		normal delivery Educate and counsel a patient for immunization	
	DE10 7	In alloging and applicate a potient tor immunization	
40	PE19.7	Educate and counsel a patient for minumization	
48		Observe the handling and storing of vaccines	-

I	DE10.12	Observe the administration of UIP vaccines	-
49	PE19.12	Observe the administration of UIP vaccines	DOAP
		Practice Infection control measures and appropriate	
		handling of the sharps	
50		Demonstrate the correct administration of different	DOAP
50		vaccines in a mannequin	
		Perform NG tube insertion in a manikin	_
	PE24.16	Perform IV cannulation in a model	
	PE24.17	Perform Interosseous insertion model	
51		Demonstrate the technique of liver biopsy in a Perform Liver Biopsy in a simulated environment	DOAP
		Perform otoscopic examination of the ear	
	PE28.11	Perform throat examination using tongue depressor	_
		Perform examination of the nose	_
52			DOAP
53	PE29.15	Perform and interpret peripheral smear	DOAP
	PE34.11	Perform AFB staining	
54			DOAP
		Debate/OSPE	
		Analyse the outcomes and appraise the monitoring and evaluation of NHM	Debate
55	PE2.3	Counselling a parent with failing to thrive child	OSPE
		Skill Lab	1
	PE30.23	Perform in a mannequin lumbar puncture. Discuss the	
56		indications, contraindication of the procedure	SL
		Demonstration	
	PE27.9	Discuss oxygen therapy, in Pediatric emergencies and	
		modes of administration	
	PE27.10	Observe the various methods of administering Oxygen	-
57	PE31.11	Observe administration of Nebulisation	-SL
3 rd MB	BS Part	II Theory for the Department of Pediatrie	csTotal :30
SL no	Topic co	de Topic	Method of
	-		Teaching
Common	n problems	related to Development -1 (Developmental delay, Cer	rebral palsy)
	PE3.1	Define, enumerate and discuss the causes of	
		developmental delay and disability including	
		intellectual disability in children	
58	PE3.2	Discuss the approach to a child with developmental delay	LGT
	PE3.8	Discuss the etio-pathogenesis, clinical	
		presentation and multi- disciplinary approach in	
		the management of Cerebral palsy	
Commo	on problem	s related to Development-2 (Scholastic backwardness, ADHD)	, Learning Disabilities , Autism ,
	PE4.1	Discuss the causes and approach to a child	
	1 1.7.1	with scholastic backwardness	
L			

	PE4.2	Discuss the etiology, clinical features, diagnosis and management of a child with Learning Disabilities	
59	PE4.3	Discuss the etiology, clinical features, diagnosis and management of a child with Attention Deficit	LGT
	PE4.4	Hyperactivity Disorder (ADHD) Discuss the etiology, clinical features, diagnosis and	
		management of a child with Autism	
Provide	nutritional	support , assessment and monitoring for common nut 13	ritional problems-1hrs
	PE10.1	Define and describe the etio-pathogenesis, classify	
		including WHO classification, clinical features,	
		complication and management of Severe Acute	
60		Malnourishment (SAM) and Moderate Acute	LGT
		Malnutrition (MAM)	
	PE10.2	Outline the clinical approach to a child with SAM and MAM	
		Care of the Normal New born, and High risk Ne	ew born
61	PE20.7	Discuss the etiology, clinical features and	ICT
61		management of Birth asphyxia	LGT
	PE20.9	Discuss the etiology, clinical features and	
60		management of Birth injuries	
62	PE20.8	Discuss the etiology, clinical features and	
		management of respiratory distress in New born	I CT
		including meconium aspiration and transient	LGT
		tachypnoea of newborn	
	PE20.10	Discuss the etiology, clinical features and	
		management of Hemorrhagic disease of New	
		born	
	PE20.19	Discuss the etiology, clinical features and management	
63		of Neonatal hyperbilirubinemia	LGT
	PE20.11	Discuss the clinical characteristics, complications and	
64		*	LGT
		for gestation)	
	PE20.16	Discuss the etiology, clinical features and management	
		of Neonatal Sepsis	
	PE20.17	Discuss the etiology, clinical features and management	LGT
		of Perinatal infections	
		Cardiovascular system-Heart Diseas	es
	PE23.1	Discuss the Hemodynamic changes, clinical	
55		presentation, complications and management of	LGT
		Acyanotic Heart Diseases –VSD, ASD and PDA	
	PE23.2	Discuss the Hemodynamic changes, clinical	
		presentation, complications and management of	LGT
		Cyanotic Heart Diseases – Fallot's Physiology	
	PE23.3	Discuss the etio-pathogenesis, clinical	
		presentation and management of cardiac	
		failure in infant and children	
	PE23.6	Discuss the etio-pathogenesis, clinical features and	LGT
		management of Infective endocarditis in children	
	1		

	PE23.4	Discuss the etio-pathogenesis, clinical	
	1 1223.4	presentation and management of Acute	
		Rheumatic Fever in children	LGT
	PE23.5	Discuss the clinical features, complications, diagnosis,	
		management and prevention of Acute Rheumatic Fever	
		Genito-Urinary system	
	PE21.1	Enumerate the etio-pathogenesis, clinical features,	
		complications and management of Urinary Tract	
		infection in children	ICT
66	PE21.2	Enumerate the etio-pathogenesis, clinical features,	LGT
		complications and management of acute post-	
		streptococcal Glomerular Nephritis in children	
	PE21.5	Enumerate the etio-pathogenesis, clinical features,	
	1 121.3	complications and management of Acute Renal	
		Failure in children	
	PE21.6	Enumerate the etio-pathogenesis, clinical features,	LGT
	1 121.0	complications and management of Chronic Renal	201
		Failure in Children	
	PE21.14	Recognize common surgical conditions of the	
		abdomen and genitourinary system and enumerate	
		the indications for referral including acute and	
		subacute intestinal obstruction, appendicitis,	
		pancreatitis, perforation intussusception, Phimosis,	
		undescended testis, Chordee, hypospadiasis,	LGT
		Torsion testis, hernia Hydrocele, Vulval Synechiae	
	PE21.15	Discuss and enumerate the referral criteria for	
	1 221110	children with genitourinary disorder	
Approa	ch to and rec	cognition of a child with possible Rheumatologic proble	em
	PE22.1	Enumerate the common Rheumatological problems	
67		in children. Discuss the clinical approach to	LGT
		recognition and referral of a child with	
		Rheumatological problem	
		Pediatric Emergencies – Common Pediatric Emergencies	encies
68	PE27.1	List the common causes of morbidity and mortality in	LGT
		the under five children	
	PE27.3	Describe the etio-pathogenesis of respiratory distress	
		in children	LGT
	PE27.4	Describe the clinical approach and management	LOI
		of respiratory distress in children	
		Systemic Pediatrics-Central Nervous system	
	PE30.1	Discuss the etio-pathogenesis, clinical features,	
	1 1.5 0.1	complications, management and prevention of	
	PE30.2	meningitis in children Distinguish bastorial wirel and tubersulous meningitis	
69	PE30.2	Distinguish bacterial, viral and tuberculous meningitis	LGT

1	PE30.3	Discuss the etio-pathogenesis, classification, clinical	1
	1 20 0.0	features, complication and management of	
		Hydrocephalus in children	
	PE30.8	Define epilepsy. Discuss the pathogenesis, clinical	
		types, presentation and management of Epilepsy in	
		children	LGT
	PE30.9	Define status Epilepticus. Discuss the clinical	
		presentation and management	
	PE30.10	Discuss the etio-pathogenesis, clinical features and	
		management of Mental retardation in children	
	PE30.11	Discuss the etio-pathogenesis, clinical features and	
		management of children with cerebral palsy	LGT
	PE30.12	Enumerate the causes of floppiness in an infant and	
		discuss the clinical features, differential diagnosis and	
		management	
Allergic	Rhinitis , At	topic Dermatitis, Bronchial Asthma , Urticaria Angioe	edema
	PE31.5	Discuss the etio-pathogenesis, clinical types,	
70		presentations, management and prevention of	LGT
		childhood Asthma	
		Endocrinology-2hr	
	PE33.1	Describe the etio-pathogenesis clinical features,	
71	1 100.1	management of Hypothyroidism in children	LGT
	PE33.4	Discuss the etio-pathogenesis, clinical types,	
	1 100. F	presentations, complication and management of	LGT
		Diabetes mellitus in children	
	I		

3 rd MBBS Part II SGD for the Department of Pediatrics Total: 60					
SL no	Topic code	Торіс	Method of teaching		
Commo	n problems re	elated to Development -1 (Developmental delay , Cer	ebral palsy)		
=2	PE 3.6	Discuss the referral criteria for children with developmental delay	SOD		
72	PE 3.7	Visit a Child Developmental Unit and observe its functioning	- SGD		
Comm	on problems	related to Development-2 (Scholastic backwardness, ADHD)	Learning Disabilities , Autism ,		
-0	PE 4.5	Discuss the role of Child Guidance clinic in children with Developmental problems	SOD		
73	PE 4.6	Visit to the Child Guidance Clinic	- SGD		
Provide	nutritional su	upport , assessment and monitoring for common nutr	ritional problems		
74	PE10.4	Identify children with under nutrition as per IMNCI criteria and plan referral	SGD		
	Micror	nutrients in Health and disease-1 (Vitamins ADEK, B	Complex and C))		
	PE 12.1	Discuss the RDA, dietary sources of Vitamin A and their role in Health and disease			

PE 12.2	Describe the causes, clinical features, diagnosis and]	
	management of Deficiency / excess of Vitamin A	50	Π.
PE 12.5	Discuss the Vitamin A prophylaxis program and their recommendations		JD
PE12.8	Identify the clinical features of dietary deficiency of Vitamin D		
PE 12.9	Assess patients with Vitamin D deficiency, diagnose,		
	classify and plan management		
		SC	GD
Micro	onutrients in Health and disease -2: Iron, Iodine, Calci	um, Magnesi	um)
PE13.1	Discuss the RDA, dietary sources of Iron and their role in health and disease		
PE13.2	Describe the causes, diagnosis and management of Fe deficiency	so	FD
PE13.6	Discuss the National anaemia control program and its recommendations		
I	Fluid and electrolyte balance)	1	I
PE15.1	Discuss the fluid and electrolyte requirement in health and disease		
PE15.2	Discuss the clinical features and complications of fluid and electrolyte imbalance and outline the management	S	GD
PE15.3	Calculate the fluid and electrolyte requirement in health		
PE15.4	Interpret electrolyte report		
PE15.5	Calculate fluid and electrolyte imbalance		
PE33.5	Interpret Blood sugar reports and explain the diagnostic criteria for Type 1 Diabetes	SGD	
PE33.6	Perform and interpret Urine Dip Stick for Sugar		
Integrat	ed Management of Neonatal and Childhood Illnesses ((IMNCI) Gui	deline)
PE16.1			,
		SC	GD
	and method of Risk stratification		
PE20.18	Identify and stratify risk in a sick neonate using IMNCI guidelines		
		ew born	
PE20.1			
	the classification and describe the characteristics of a	so	GD
PE20.2		-	
	*		
PE20.12	clinical features and management of Neonatal		
PF20.13			
120.13			
	-		SGD
DE20 14			
r£20.14	of Neonatal hypocalcemia		
PE20.15	Discuss the etiology, clinical features and management of Neonatal seizures		
	PE 12.5 PE12.8 PE 12.9 Micro PE13.1 PE13.2 PE13.6 PE15.1 PE15.3 PE15.4 PE15.5 PE33.6 PE16.1 PE16.1 PE10.18 PE20.18 PE20.12 PE20.13	management of Deficiency / excess of Vitamin A PE 12.5 Discuss the Vitamin A prophylaxis program and their recommendations PE12.8 Identify the clinical features of dietary deficiency of Vitamin D PE 12.9 Assess patients with Vitamin D deficiency, diagnose, classify and plan management Micronutrients in Health and disease -2: Iron, Iodine, Calciency PE13.1 Discuss the RDA, dietary sources of Iron and their role in health and disease PE13.2 Describe the causes, diagnosis and management of Fe deficiency PE13.6 Discuss the National anaemia control program and its recommendations Fluid and electrolyte requirement in health and disease PE15.1 Discuss the fluid and electrolyte requirement in health and disease PE15.2 Discuss the clinical features and complications of fluid and electrolyte imbalance and outline the management PE15.3 Calculate the fluid and electrolyte requirement in health PE15.4 Interpret electrolyte report PE15.5 Calculate fluid and electrolyte imbalance PE33.6 Perform and interpret Urine Dip Stick for Sugar Integrated Management of Neonatal and Childhood Illnesses (IMNC1) guidelines and method of Risk stratification PE10.1 Define the components of Integrated Management of	management of Deficiency / excess of Vitamin A SC PE 12.5 Discuss the Vitamin A prophylaxis program and their recommendations SC PE 12.8 Identify the clinical features of dietary deficiency of Vitamin D SC PE 12.9 Assess patients with Vitamin D deficiency, diagnose, classify and plan management SC PE 13.1 Discuss the RDA, dietary sources of Iron and their role in health and disease SC PE13.2 Describe the causes, diagnosis and management of Fe deficiency Bei13.2 Describe the causes, diagnosis and management of Fe deficiency SC PE13.6 Discuss the National anaemia control program and its recommendations SC SC PE15.1 Discuss the fluid and electrolyte requirement in health and disease PE15.2 Discuss the fluid and electrolyte requirement in health SC PE15.2 Discuss the fluid and electrolyte requirement in health SC SC PE15.3 Calculate fluid and electrolyte requirement in health SC PE15.4 Interpret electrolyte report SC PE15.5 Calculate fluid and electrolyte imbalance PE15.4 PE33.6 Perform and interpret Urine Dip Stick for Sugar SC

	condit: atresia	ify clinical presentations of common surgical tions in the new born including TEF, esophageal a, anal atresia, cleft lip and palate, congenital ragmatic hernia and causes of acuteabdomen	SGD
		Acute and chronic liver disorder	
83	PE26.	Discuss the etio-pathogenesis, clinical features and management of acute hepatitis in children	
00	PE26. 2	 Discuss the etio-pathogenesis, clinical features and management of Fulminant Hepatic Failure in children 	
	PE26. 3	 Discuss the etio-pathogenesis, clinical features and management of chronic liver diseases in children 	– LGT
	PE26. 4	Discuss the etio-pathogenesis, clinical features and management of Portal Hypertension in children	-
		Respiratory System	
	PE28.1	Discuss the etio-pathogenesis, clinical features and management of Naso pharyngitis	
	PE28.2	Discuss the etio-pathogenesis of Pharyngo Tonsillitis	
	PE28.3 PE28.4	Discuss the clinical features and management of Pharyngo Tonsillitis	
84	PE28.4 PE28.5	Discuss the etio-pathogenesis, clinical features and management of Acute Otitis Media (AOM) Discuss the etio-pathogenesis, clinical features and	LGT
	PE28.6	management of Epiglottitis Discuss the etio-pathogenesis, clinical features and	-
	PE28.7	management of Acute laryngo- trachea-bronchitisDiscuss the etiology, clinical features and management	-
<u> </u>	PE28.18	of Stridor in children Describe the etio-pathogenesis, diagnosis, clinical	+
85	I E20.10	features, management and prevention of lower respiratory infections including bronchiolitis, wheeze associated LRTI Pneumonia and empyema	LGT
	PE28.19	Describe the etio-pathogenesis, diagnosis, clinical features, management and prevention of asthma in children	
	1	Anaemia and other Hemato-oncologic disorders in chil	ildren
	PE29.1	Discuss the etio-pathogenesis, clinical features, classification and approach to a child with anaemia	
	PE29.2	Discuss the etio-pathogenesis, clinical features and management of Iron Deficiency anaemia	
86	PE29.3	Discuss the etiopathogenesis, clinical features and management of VIT B12, Folate deficiency anaemia	LGT
	PE29.4	Discuss the etio-pathogenesis, clinical features and management of Hemolytic anemia, Thalassemia Major, Sickle cell anaemia, Hereditary spherocytosis, Auto- immune hemolytic anaemia and hemolytic uremic	

	PI	E29.6 Discuss the cause of thrombocytopenia in childre	en:		
		describe the clinical features and management of			
		Idiopathic Thrombocytopenic Purpura (ITP)			
	PI	E29.7 Discuss the etiology, classification, pathogenesis	and		
		clinical features of Hemophilia in children			
	87	E29.8 Discuss the etiology, clinical presentation and		LGT	
	11	management of Acute Lymphoblastic Leukemia	in		
		children	111		
	PI	E29.9 Discuss the etiology, clinical presentation and			
		management of lymphoma in children			
	DE01.2	Genito-Urinary system)	1		
	PE21.3	Discuss the approach and referral criteria to a child with Proteinuria			
00	PE21.11		-	COD	
88	PE21.11	Perform and interpret the common analytes in a Urine examination		SGD	
	PE21.12		_		
		Interpret report of Plain X Ray of KUB			
	PE21.4	Discuss the approach and referral criteria to a child			
		with Hematuria	_	SGD	
	PE21.7	Enumerate the etio-pathogenesis, clinical features,		562	
		complications and management of Wilms Tumor			
	PE21.17	Describe the etiopathogenesis, grading, clinical			
		features and management of hypertension in	SGD		
		children			
		Pediatric Emergencies – Common Pediatric Emer	rgencies		
	DE27.2				
	PE27.2	Describe the etio-pathogenesis, clinical approach and	SGD		
		management of cardiorespiratory arrest in children			
	PE27.5	Describe the etio-pathogenesis, clinical approach and			
89		management of Shock in children		SGD	
	PE27.6	Describe the etio-pathogenesis, clinical approach and		562	
		management of Status epilepticus			
	PE27.7	Describe the etio-pathogenesis, clinical approach and			
		management of an unconscious child		SGD	
	PE27.8	Discuss the common types, clinical presentations and		SGD	
		management of poisoning in children			
	PE27.11	Explain the need and process of triage of sick children			
		brought to health facility			
	PE27.12	Enumerate emergency signs and priority signs	-		
		F		SGD	
	PE27.13	List the sequential approach of assessment of			
		emergency and priority signs			
	PE27.24	Monitoring and maintaining temperature: define			
		hypothermia. Describe the clinical features,			
		complications and management of Hypothermia		SGD	
	PE27.25	Describe the advantages and correct method of	_	500	
	1 12/.23	keeping an infant warm by skin to skin contact			
	DESE				
	PE27.26	Describe the environmental measures to maintain			
	DE05.05	temperature			
	PE27.27	Assess for hypothermia and maintain temperature			
	DE07.00		4	SGD	
	PE27.28	Provide BLS for children in manikin			
	1				

PE31.9 PE31.10 PE31.11	Interpret CBC and CX Ray in Asthma Enumerate the indications for PFT Observe administration of Nebulisation	SGD
PE31.10	Interpret CBC and CX Ray in Asthma Enumerate the indications for PFT	
	Interpret CBC and CX Ray in Asthma	
	/ Ingloedelina	
	Angioedema	
1 1.51.12	complications and management of Urticaria	
PF31 12	•	
PE31.3	Describe the etio-pathogenesis, clinical features and	SGD
PE31.2	Recognize the clinical signs of Allergic Rhinitis	SCD
DE21.0	prevention of Allergic Rhinitis in Children	
PE31.1	Describe the etio-pathogenesis, management and	
Allergi	ic Knimus , Atopic Dermatitis, Bronchial Asthma , Urtic	aria Angioedema
Allone	-	aria Angiadama
PE30.23	1 1	D UD
		SGD
PE30.20		
PE30.16	Discuss the approach to and management of a child with headache	~~~
	management of Ataxia in children	SGD
PE30.15	Discuss the etio-pathogenesis, clinical features and	
r£30.14		
DE20 14		SGD
	-	
PE30.13	Discuss the etio-pathogenesis, clinical features,	
	children	
1 1.50.7		SGD
PE307		
PE30.6		SGD
DE20 C		
	causes, clinical features, types, and management of	
PE30.5	Enumerate the Neural tube defects. Discuss the	SGD
	features, and management of Microcephaly in children	
PE30.4	Discuss the etio-pathogenesis, classification, clinical	
	Systemic Pediatrics-Central Nervous system	
PE27 35	Attends to emergency calls promptly	
PE27.34	Willing to be a part of the ER team	SGD
PE27.33	Obtain Informed Consent	
PE27.32	Counsel parents of dangerously ill / terminally ill	
PE27.31	Assess child for signs of abuse	
		SGD
	PE27.33 PE27.34 PE27.35 PE30.4 PE30.5 PE30.6 PE30.7 PE30.13 PE30.14 PE30.15 PE30.16 PE30.20 PE30.23 Allerg PE31.1 PE31.2	PE27.31 Assess child for signs of abuse PE27.32 Counsel parents of dangerously ill / terminally ill child to break a bad news PE27.33 Obtain Informed Consent PE27.34 Willing to be a part of the ER team PE27.35 Attends to emergency calls promptly Systemic Pediatrics-Central Nervous system PE30.4 Discuss the etio-pathogenesis, classification, clinical features, and management of Microcephaly in children PE30.5 Enumerate the Neural tube defects. Discuss the causes, clinical features, types, and management of Neural Tube defect PE30.6 Discuss the etio-pathogenesis, clinical features, and management of Infantile hemiplegia PE30.7 Discuss the etio-pathogenesis, clinical features, complications and management of Febrile seizures in children PE30.13 Discuss the etio-pathogenesis, clinical features, management and prevention of Poliomyelitis in children PE30.14 Discuss the etio-pathogenesis, clinical features and management of Ataxia in children PE30.15 Discuss the approach to and management of a child with headache PE30.20 Interpret and explain the findings in a CSF analysis PE30.23 Perform in a mannequin lumbar puncture. Discuss the indications, contraindication of the procedure Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urtic

92	PE32.1	Discuss the genetic basis, risk factors, complications, prenatal diagnosis, management and genetic counselling in Down's Syndrome	SGD
	PE32.6	Discuss the genetic basis, risk factors, clinical features, complications, prenatal diagnosis, management and genetic counselling in Turner's Syndrome	SGD
	PE32.11	Discuss the genetic basis, risk factors, complications, prenatal diagnosis, management and genetic counselling in Klineferlter Syndrome	360
		Endocrinology	
93	PE33.2	Recognize the clinical signs of Hypothyroidism and refer	SGD
95	PE33.3	Interpret and explain neonatal thyroid screening report	SGD
	PE33.8	Define precocious and delayed Puberty	
	PE33.9	Perform Sexual Maturity Rating (SMR) and interpret	
	PE33.10	Recognize precocious and delayed Puberty and refer	
	PE33.11	Identify deviations in growth and plan appropriate referral	SGD

3rd MBBS Part II SDL 2020-2021 for the Department of PediatricsTotal :30 hrs

SL no	Topic code	Торіс	Method of teaching
Commo		related to Development -1 (Developmental delay , Cer	e
94	PE3.5	Discuss the role of the child developmental unit in management of developmental delay	Seminar
Obesity	in children		1
	PE11.1	Describe the common etiology, clinical features and management of obesity in children	
95	PE11.2	Discuss the risk approach for obesity and discuss the prevention strategies	Seminar
	PE11.6	Discuss criteria for referral	-
	PE12.6	Discuss the RDA, dietary sources of Vitamin D and their role in health and disease	
	PE12.7	Describe the causes, clinical features, diagnosis and management of Deficiency / excess of Vitamin D (Rickets and Hypervitaminosis D)	
	PE12.10	Discuss the role of screening for Vitamin D deficiency	
	PE12.11	Discuss the RDA, dietary sources of Vitamin E and their role in health and disease	
	PE12.12	Describe the causes, clinical features, diagnosis and management of deficiency of Vitamin E	
	PE12.13	Discuss the RDA, dietary sources of Vitamin K and their role in health and disease	

	PE12.14	Describe the causes, clinical features, diagnosis	
96		management and prevention of deficiency of Vitamin K	Seminar
	PE12.15	Discuss the RDA, dietary sources of Vitamin B and	
		their role in health and disease	
	PE12.16	Describe the causes, clinical features, diagnosis and	
		management of deficiency of B complex Vitamins	
	PE12.17	Identify the clinical features of Vitamin B complex	
		deficiency	-
	PE12.18	Diagnose patients with Vitamin B complex	
		deficiency and plan management	
	PE12.19	Discuss the RDA, dietary sources of Vitamin C and	
		their role in Health and disease	
	PE12.20	Describe the causes, clinical features, diagnosis and	
		-	
		management of deficiency of Vitamin C (scurvy)	
Mi		-	nesium
Mi		management of deficiency of Vitamin C (scurvy)	gnesium
Mi	icronutrient	management of deficiency of Vitamin C (scurvy) s in Health and disease -2: Iron, Iodine, Calcium, Mag	gnesium
Mi	icronutrient	management of deficiency of Vitamin C (scurvy) s in Health and disease -2: Iron, Iodine, Calcium, Mag Discuss the RDA, dietary sources of Iodine and their	nesium
	icronutrient PE13.7	management of deficiency of Vitamin C (scurvy) s in Health and disease -2: Iron, Iodine, Calcium, Mag Discuss the RDA, dietary sources of Iodine and their role in Health and disease	-
Mi 97	icronutrient PE13.7	 management of deficiency of Vitamin C (scurvy) s in Health and disease -2: Iron, Iodine, Calcium, Mag Discuss the RDA , dietary sources of Iodine and their role in Health and disease Describe the causes, diagnosis and management of 	gnesium Seminar
	icronutrient PE13.7 PE13.8	 management of deficiency of Vitamin C (scurvy) s in Health and disease -2: Iron, Iodine, Calcium, Mag Discuss the RDA , dietary sources of Iodine and their role in Health and disease Describe the causes, diagnosis and management of deficiency of Iodine 	-
	icronutrient PE13.7 PE13.8	 management of deficiency of Vitamin C (scurvy) s in Health and disease -2: Iron, Iodine, Calcium, Mag Discuss the RDA , dietary sources of Iodine and their role in Health and disease Describe the causes, diagnosis and management of deficiency of Iodine Identify the clinical features of Iodine deficiency 	-
	icronutrient PE13.7 PE13.8 PE13.9	 management of deficiency of Vitamin C (scurvy) s in Health and disease -2: Iron, Iodine, Calcium, Mag Discuss the RDA , dietary sources of Iodine and their role in Health and disease Describe the causes, diagnosis and management of deficiency of Iodine Identify the clinical features of Iodine deficiency disorders 	-
	icronutrient PE13.7 PE13.8 PE13.9	 management of deficiency of Vitamin C (scurvy) s in Health and disease -2: Iron, Iodine, Calcium, Mag Discuss the RDA , dietary sources of Iodine and their role in Health and disease Describe the causes, diagnosis and management of deficiency of Iodine Identify the clinical features of Iodine deficiency disorders Discuss the National Goiter Control 	-

	PE13.12	Describe the causes, clinical features, diagnosis and	
		management of Ca Deficiency	
	PE13.13	Discuss the RDA, dietary sources of Magnesium and their role in health and disease	
	PE13.14	Describe the causes, clinical features, diagnosis and management of Magnesium Deficiency	
		Acute and chronic liver disorders	S
98	PE26.12	Discuss the prevention of Hep B infection – Universal precautions and Immunisation	SGD
	PE26.13	Counsel and educate patients and their family appropriately on liver diseases	
		Toxic elements and free radicals and oxygen toxicit	y
	PE14.1	Discuss the risk factors, clinical features, diagnosis and management of Lead Poisoning	
	PE14.2	Discuss the risk factors, clinical features, diagnosis and management of Kerosene ingestion	
99	PE14.3	Discuss the risk factors, clinical features, diagnosis and management of Organophosphorous poisoning	Seminar
	PE14.4	Discuss the risk factors, clinical features, diagnosis and management of paracetamol poisoning	
	PE14.5	Discuss the risk factors, clinical features, diagnosis and management of Oxygen toxicity	
	Pediatric	Emergencies – Common Pediatric Emergencies	
100	PE.27.29	Discuss the common causes, clinical presentation, medico-legal implications of abuse	Seminar

3rd MBBS Part II Clinical Posting for the Department of PediatricsTotal:(5weeks, 6days per week)

		Clinical Posting	
SL no	Topic code	Торіс	Method ofteaching
101	PE3.3	Assessment of a child with developmental delay - Elicit document and present history	СР
	PE10.3	Assessment of a patient with SAM and MAM, diagnosis, classification and planning management including hospital and community based intervention, rehabilitation and prevention	CP
	PE10.4	Identify children with under nutrition as per IMNCI criteria and plan referral	
	PE10.5	Counsel parents of children with SAM and MAM	
102	PE11.3	Assessment of a child with obesity with regard to eliciting history including physical activity, charting and dietary recall	

PE11.4	Examination including calculation of BMI,	СР
	measurement of waist hip ratio, identifying external	
	markers like acanthosis, striae, pseudogynaecomastia	
	etc	

	PE11.5	Calculate BMI, document in BMI chart and interpret		
	PE12.3	Identify the clinical features of dietary deficiency /		
		excess of Vitamin A		
	PE12.4	Diagnose patients with Vitamin A deficiency, classify		
	DE10.0	and plan management	-	
	PE12.8	Identify the clinical features of dietary deficiency of Vitamin D		
103	PE12.9	Assess patients with Vitamin D deficiency, diagnose,	СР	
		classify and plan management	-	
		Identify the clinical features of Vitamin B complex deficiency		
	PE12.18	Diagnose patients with Vitamin B complex		
		deficiency and plan management	-	
		Identify the clinical features of Vitamin C deficiency		
	PE13.3	Identify the clinical features of dietary deficiency of Iron		
		and make a diagnosis		
104	PE13.4	Interpret hemogram and Iron Panel	СР	
		Propose a management plan for Fe deficiency anaemia		
105	PE20.4	Assessment of a normal neonate	СР	
	PE21.8	Elicit, document and present a history pertaining to		
		diseases of the Genitourinary tract		
	PE21.9	Identify external markers for Kidney disease, like		
		Failing to thrive, hypertension, pallor, Icthyosis,		
	DE31 10	anasarca		
	PE21.10	Analyse symptom and interpret the physical findings		
		and arrive at an appropriate provisional / differential diagnosis	СР	
106	PE21-11	Perform and interpret the common analytes in a Urine	-	
	1 122 1.11	examination		
	PE21.12	Interpret report of Plain X Ray of KUB		
		Enumerate the indications for and Interpret the written	-	
		report of Ultra sonogram of KUB		
	PE21.16	Counsel / educate a patient for referral appropriately		
107		Assess for signs of severe dehydration	СР	
107	PE30.17	Elicit document and present an age appropriate history		
		pertaining to the CNS		
	PE30.18	Demonstrate the correct method for physical	1	
		examination of CNS including identification of		
		external markers. Document and present clinical		
108		findings	СР	
100	PE30.19	Analyse symptoms and interpret physical findings		
		and propose a provisional / differential diagnosis		
	PE30.21	30.21 Enumerate the indication and discuss the limitations		
	of EEG, CT, MRI			
	PE30.22	Interpret the reports of EEG, CT, MRI		

		1	
	PE31.2	Recognize the clinical signs of Allergic Rhinitis	
	PE31.4	Identify Atopic dermatitis and manage	-
	DE21.6		-
	PE31.6	Recognise symptoms and signs of Asthma	
109	PE31.7	Develop a treatment plan for Asthma	СР
109		appropriate to clinical presentation & severity	CP
	PE31.8	Enumerate criteria for referral	
	PE31.9	Interpret CBC and CX Ray in Asthma	-
	PE31.10	Enumerate the indications for PFT	-
	PE32.2	Identify the clinical features of Down's Syndrome	
110	PE32.3	Interpret normal Karyotype and recognize Trisomy 21	СР
	PE32.5	Counsel parents regarding 1. Present child 2. Risk in the next pregnancy	
	PE32.7	Identify the clinical features of Turner Syndrome	
	PE32.8	Interpret normal Karyotype and recognize the Turner Karyotype	СР
	PE32.10	Counsel parents regarding 1. Present child 2. Risk in the next pregnancy	
	PE32.12	Identify the clinical features of Klineferlter Syndrome	
	PE32.13	Interpret normal Karyotype and recognize the Klineferlter Karyotype	СР
	PE33.2	Recognize the clinical signs of Hypothyroidism and refer	
	PE33.3	Interpret and explain neonatal thyroid screening report	СР
111	PE33.5	Interpret Blood sugar reports and explain the diagnostic criteria for Type 1 Diabetes	
	PE33.6	Perform and interpret Urine Dip Stick for Sugar	-
	PE33.7	Perform genital examination and recognize Ambiguous Genitalia and refer appropriately	
	PE33.9	Perform Sexual Maturity Rating (SMR) and interpret	СР
	PE33.10	Recognize precocious and delayed Puberty and refer	L Cr
	PE33.11	Identify deviations in growth and plan appropriate referral	
		Video/DOAP	
112	PE16.2	Assess children <2 months using IMNCI Guidelines	
112	PE16.3	Assess children >2 to 5 years using IMNCI guidelines and Stratify Risk	DOAP
	PE20.18	Identify and stratify risk in a sick neonate using IMNCI guidelines]

	PE20.3	Perform Neonatal resuscitation in a manikin	
	1 L20.5		
	PE20.5	Counsel / educate mothers on the care of neonates	
113			DOAP
	PE20.6	Explain the follow up care for neonates including Breast	
		Feeding, Temperature maintenance, immunization,	
	DE 27 14	importance of growth monitoring and red flags	
	PE27.14	Assess emergency signs and prioritize	
	PE27.15	Assess airway and breathing: recognise signs of severe	
		respiratory distress. Check for cyanosis, severe chest	
		indrawing, grunting	
	PE27.16	Assess airway and breathing. Demonstrate the	
		method of positioning of an infant & child to	
114	DE07.17	open airway i n a simulated environment	DOAP
	PE27.17	Assess airway and breathing: administer oxygen	
		using correct technique and appropriate flow rate	
	PE27.18	Assess airway and breathing: perform assisted	
		ventilation by Bag and mask in a simulated	
		environment	
	PE27.19	Check for signs of shock i.e. pulse, Blood pressure, CRT	
	PE27.20	Secure an IV access in a simulated environment	
	PF27.21	Choose the type of fluid and calculate the fluid	
		requirement in shock	
	PE27.22	Assess level of consciousness & provide emergency	
		treatment to a child with convulsions/ coma	DOAP
		Position an unconscious childPosition a child with suspected trauma	DOM
		- Administer IV/per rectal Diazepam for a	
		convulsing child in a simulated environment	
	PE27.30	Demonstrate confidentiality with regard to abuse	
		Assess child for signs of abuse	
		Counsel parents of dangerously ill / terminally ill child	1
		to break a bad news	
	PE27.33 Obtain Informed Consent		1
	PE27.34	Willing to be a part of the ER team	DOAP
			DUAI

	PE27.35	PE27.35 Attends to emergency calls promptly		
S	skill lab			
	PE15.6	Demonstrate the steps of inserting an IV cannula in a model	CI	
115	PE15.7	Demonstrate the steps of inserting an interosseous line in a mannequin	_SL	
116	PE27.27	Assess for hypothermia and maintain temperature		
	PE27.28	Provide BLS for children in manikin	SL	
	PE29.17	Demonstrate performance of bone marrow aspiration in manikin		

AETCOM

	4.9A	The student should be able to : identify discuss and defend	
Paediatrics		medico legal, socio cultural, professional and ethical issues	
		pertaining to medical negligence	
	4.9B	The student should be able to: identify, discuss and defend	
		medico legal, socio – cultural, professional and ethical issues	
		pertaining to malpractice	

<u>Summary of course content, teaching and learning methods and student assessment</u> <u>for the undergraduate (MBBS) Curriculum in Paediatrics</u>

Course content

The course content has been given in detail in the above Table, which includes competencies, specific learning objectives for each competencies and the suggested Teaching-Learning methods and assessment methods. The competencies have been developed by an expert group nominated by NMC, while the SLOs, T-L methods and assessments methods have been written by the expert committee constituted by Rajiv Gandhi University of Health Sciences, with inputs taken from IAP Taskforce.

Teaching-Learning methods and Time allotted

	Clinics	Lectures	Small group discussion	Self – Directed learning	Total
Professional Year-II	4weeks (3 hours per day, 6days a week)	-	-	-	-
Professor year-III Part-I	4 weeks (3 hours per day 6days a week)	25	30	10	65
Professional year –III part – II	5weeks (3hours per day, 6days a week	30	60	30	120

Teaching-learning methods shall be learner centric and shall predominantly include small group learning, interactive teaching methods and case-based learning. Didactic lectures not to exceed one-third of the total teaching time. The teaching learning activity focus should be on application of knowledge rather than acquisition of knowledge.

The curricular contents shall be vertically and horizontally aligned and integrated to the

maximum extent possible to enhance learner's interest and eliminate redundancy and

Overlap. Integration allows the student to understand the structural basis of paediatric problems, their management and correlation with function, rehabilitation and quality of life. Acquisition and certification of skills shall be through experiences in patient care, diagnostic and skill laboratories. Use of skill lab to train undergraduates is desirable. Newer T-L method like Learner-doctor method (Clinical clerkship) should be mandatorily implemented, from 1st clinical postings itself.

The goal of this type of T-L activity is to provide learners with experience in longitudinal patient care, being part of the health care team, and participate in hands-on care of patients in outpatient and inpatient setting. During the 1st clinical postings, the students are oriented to the working of the department. During the subsequent clinical

the hospital, participating in that patient's care including case work-up, following-up on investigations, presenting patient findings on rounds, observing procedures, if any, till patient is discharged.

The development of ethical values and overall professional growth as integral part of curriculum shall be emphasized through a structured longitudinal and dedicated programme on professional development including attitude, ethics, and communication which is called the AETCOM module. The purpose is to help the students apply principles of bioethics, system based care, apply empathy and other human values in patient care, communicate effectively with patients and relatives and to become a professional who exhibits all these values. This will be a longitudinal programme spread across the continuum of the MBBS programme including internship.

Assessment

Eligibility to appear for University examinations is dependent on fulfilling criteria in two main areas – attendance and internal assessment marks

Attendance

Attendance requirements are 75% in theory and 80% in clinical postings for eligibility to appear for the examinations in Paediatrics.

75% attendance in AETCOM Module is required for eligibility to appear for final examination in Professional year III part II.

Internal Assessment

Progress of the medical learner shall be documented through structured periodic assessment that includes formative and summative assessments. Logs of skill-based training shall be also maintained.

There shall be no less than three internal assessment examinations in Paediatrics. An end of posting clinical assessment shall be conducted for each of the Paediatric clinical postings.

Day to day records and logbook (including required skill certifications) should be given importance in internal assessment. Internal assessment should be based on competencies and skills.

Learners must secure at least 50% marks of the total marks (combined in theory and clinical; not less than 40 % marks in theory and practical separately) assigned for internal assessment in Paediatrics in order to be eligible for appearing at the final University examination.

Internal assessment marks will reflect as separate head of passing at the summative examination.

The results of internal assessment should be displayed on the notice board within 1-2 weeks of the test.

Remedial measures should be offered to students who are either not able to score qualifying marks or have missed on some assessments due to any reason.

Learners must have completed the required certifiable competencies for that phase of training and Paediatric logbook entry completed to be eligible for appearing at the final

AETCOM assessment will include: (a) Written tests comprising of short notes and creative writing experiences, (b) OSCE based clinical scenarios / viva voce.

University examinations

University exam shall be held at the end of Professional year III part II of training (Final year MBBS) in the subjects of Paediatrics, General Medicine, Obstetrics and gynaecology and General Surgery.

University examinations are to be designed with a view to ascertain whether the candidate has acquired the necessary knowledge, minimal level of skills, ethical and professional values with clear concepts of the fundamentals which are necessary for him/her to function effectively and appropriately as a physician of first contact.

Assessment shall be carried out on an objective basis to the extent possible.

Marks allotted:

Eligibility to appear for University Examination

	75% in theory and 80% in practical in each subject and in each professional year
Internal Assessment Learners must secure at least 50% marks of the total marks (combined	
	theory and practical / clinical not less than 40 % marks in theory and practical separately)

Examination

a. Assessment method of theory

1st PCT practical/First ward leaving examination-100 2nd PCT practical / Second ward leaving examination-100 Prelims practical-100 Home assignment -10 Continuous class test –LMS-25 Seminar -10 Museum study -10 Library assignement -10 Attendance -10 Total -375

b. Assessment method of practical

1st PCT practical/First ward leaving examination-100 2nd PCT practical / Second ward leaving examination-100 Prelims practical-100 Certificate skill based competencies-100 AETCOM-30 SVL lab activity-50 Research-20 Journal-40 Attendance-10 Total-500

University examination Theory

Examination

Theory examination consists of one paper- 100 marks.

Question paper pattern

Theory question paper pattern for 100 marks for a duration of 3 hours

MCQ (15 Direct & 5 Case Based):	20 X 1	= 20 marks
Long Answer Question: Direct/Case Based	2 X 15	= 30 marks
Essay:		
Short Answer Question (SAQ):	10 X 5	= 50 marks

Topics and marks distribution matrix for PAPER

S. No	TOPICS	MCI Competency Number	LAQ	SAQ
1	General Pediatrics including infections	1.1 – 15.7	\checkmark	~
2	Newborn	20.1 – 20.20	~	~
4	Community Pediatrics	16.1 – 19.16	~	~
5	Systemic Pediatrics -I	21.1 – 29.12	\checkmark	√
6	Systemic Pediatrics - II	30.1 – 36.1	\checkmark	✓

Practical Syllabus

Distribution of Marks for Practical Examinations

Practical examination will be conducted under heads of Practical examination and Viva Voce.

1.	Practical Examination	(80 marks)
	PAEDIATRIC (CASE)	40
	NEW BORN	20
	OSCE (OBSERVED / UNOBSERVED)	20
2	Viva –Voce Examination	(20 marks)
	X-RAYS	5
	INSTRUMENT	5
	NUTRITION	5
	DRUGS & VACCINES	5
	TOTAL MARKS	100 MARKS

	Maximum Marks	Passing minimum ineach component	Passing Criteria (Theory & Practical)
Theory	100	50	100 [Mandatory 50% marks in
Practical + viva	100	50	<pre>theory and practical (practical = practical/ clinical + viva) [theory=theory paper(s)only]</pre>

The theory paper should include different types such as structured essays, short essays, Short Answers Questions (SAQ) and MCQs (Multiple Choice Questions). Marks for each part should be indicated separately.

All the question papers to follow the suggested **blueprint**(**APPENDIX 1**). It is desirable that the marks allotted to a particular topic are adhered to.

A minimum of **80%** of the marks should be from the **must know** (core) component of the curriculum. A maximum of **20%** can be from the **desirable to know** component.

All main essay questions to be from the must know component of the curriculum.

Main essay questions to be of the **modified variety** containing a clinical case scenario. At least 30% of questions should be clinical case scenario based. Questions to be constructed to test higher cognitive levels.

Clinical examinations will be conducted in the hospital wards. Clinical cases kept in the examination must be common conditions that the learner may encounter as a physician of first contact in the community. Selection of rare syndromes and disorders

asexamination cases is to be discouraged. Emphasis should be on candidate's capability to elicit history, demonstrate physical signs, write a case record, analyze the case and develop a management plan.

Viva/oral examination should assess approach to patient management, emergencies, attitudinal, ethical and professional values. Candidate's skill in interpretation of common investigative data, X-rays, identification of specimens, ECG, etc. is to be also assessed.

At least one question in each paper of the clinical specialties in the University examination should test knowledge competencies acquired during the professional development programme. Skill competencies acquired during the Professional Development Programme must be tested during the clinical, practical and viva voce.

Pass criteria

Internal Assessment: 50% combined in theory and practical (not less than 40% in each) for eligibility for appearing for University Examinations

University Examination: Mandatory 50% marks separately in theory and clinicals (clinicals = clinical + viva)

Topics	Marks allotted
Growth, development &	
Adolescent health	15
• Nutrition and micronutrients	
Neonatology	10
Fluid & Electrolytes	3
Immunity & Immunization	
• Infections & Infestation	15
Gastrointestinal system	5
Hematology including	10
malignancies	
Respiratory system	
Cardiovascular system	15
Endocrine, metabolic & genetic	
Disorders	3
Central Nervous system,	
neuromuscular disorders	10
Disorders of kidney & urinary	5
Tract	
Pediatric emergencies	3
Miscellaneous – Eye, ENT, skin,	
Rheumatology, Psychiatry &	6
social paediatrics	
Total	100

APPENDIX 1: Blueprint for Paediatric theory Examinations

Sample Paediatrics Question Paper Paediatrics Paper –MBBS , Phase III Part 2 Time: 3 hours Marks: 100 Your answers should be specific to the questions asked.

Draw neat, labelled diagrams wherever necessary.

Long essays (2 X 15 = 30 marks)

 5 year old female child from presented with 3 days history of periorbital oedema and anasarca. There was no fever or other complaints. On Examination, Vitals were normal and systemic examination was non

contributory. Discuss the differential diagnosis and justify the most probable diagnosis. Write a note on management

2. A 3 month old boy was brought to the emergency room with complaints of fever for the last 2 days, cough and respiratory distress for the last 24 hour. Discuss the differential diagnosis and justify the most likely diagnosis. Add a note on management.

Short essays (10x5=40marks)

3. A term male baby delivered by caesarean section developed fast breathing soon after birth and was taken to the NICU. There was history of meconium stained liquor

. On examination, respiratory rate was 80/min. with retractions and grunting. Discuss the causes for distress in this newborn.

4. 4 year old girl presented with epistaxis of one day duration. On examination she was afebrile, echymotic patches were seen over lower limbs and trunk, otherwise

clinical examination was unremarkable. How do you approach and manage this child ?

- 5. Complicated malaria
- 6. Clinical features and management of hypothyroidism
- 7. Management of cyanotic spell
- 8. Define failure to thrive and outline management
- 9. WHO classification of vitamin A deficiency
- 10. Nocturnal enuresis
- 11.Age independent anthropometric indices
- 12.HPV vaccine Age and schedule

Multiple choice questions (20x1=20marks, with no negative marking)

- 1) Which blood group is used for exchange transfusion
 - A) O positive
 - B) O negative
 - C) AB positive
 - D) AB negative
- 2) Anterior fontanelle is closed at
 - A) less than 3 months
 - B) 12 months
 - C) 12-18 months
 - D) <3 years
- 3) Bronchiolitis is commonly caused by
 - A) Respiratory syncytial virus
 - B) Adeno virus
 - C) Influenza virus
 - D) Rhinovirus
- 4) Differential cyanosis occurs in
 - A) PDA
 - B) TGA
 - C) TOF
 - D) ASD
- 5) All are symptoms of CCF in infant except
 - A) Diaphoresis
 - B) Cold extremities
 - C) Reduced urine output
 - D) Pallor
- 6) Anti infective factors available in breast milk are all except
 - A) Lactoferrin
 - B) Bifidus factor
 - C) PABA
 - D) DHA
- 7) Congestive heart failure in fetus is caused by all except
 - A) Severe anemia
 - B) VSD
 - C) Supraventricular Tachycardia
 - D) Complete heart block
- 8) Red flag sign in child development if not attained
 - A) Vocalization at 2 months
 - B) Walking at 12 months
 - C) Single word at 12 months
 - D) Social smile at 3 months
- 9) Vesicoureteric reflex is commonly diagnosed by
 - A) MCUG
 - B) USG
 - C) DMSA
 - D) DTPA
- 10) Nephrotic range proteinuria
 - A) Urine protein creatinine ratio >2
 - B) Proteinuria >3.5gm/24hr
 - C) >40 mg /m2/hr
 - D) All of the above

- 11. While examining 2 days old infant, small vesicles on erythematous base are noted on face and chest. Wright stain of the lesions revealed sheets of Eosinophils. Diagnosis of this rash is
 - A) miliaria rubra
 - B) milia
 - C) neonatal acne
 - D) erythema toxicum
- 12. A 2 year old, active, asymptomatic boy is examined by a physician for the first time. His blood pressure is 130/86 in the right arm with a barely palpable right femoral pulse. The most likely diagnosis is
 - A) Coarctation of aorta
 - B) Tetralogy of Fallot
 - C) Aortic stenosis
 - D) Pulmonary stenosis

13. Which of the following hemolytic anemias is associated with an extracorpuscular defect?

- A) Hereditary spherocytosis
- B) Sickle cell anemia
- C) Autoimmune hemolytic anemia
- D) Glucose-6-phosphate dehydrogenase (G6PD) deficiency

14.Calorie requirement in a 3 year old is (kcal/day)

- A) 1000
- B) 1100
- C) 1200
- D) 1300
- 15.A 6 week old infant presents with a history of noisy breathing. The noise was first noted shortly after birth, is inspiratory in nature, is worse now that the infant has a viral respiratory illness, and remits almost completely when the child is asleep. The most likely etiology of this child's noisy breathing is

A) asthma

- B) bronchopulmonary dysplasia
- C) cystic fibrosis
- D) laryngomalacia
- 16.A 10 year old develops nephrotic syndrome. Several urinalyses reveal the presence of red blood cell casts. The creatinine is 2.8 mg/dl and the blood pressure is 146/96 mm Hg. The next best course of action is
 - A) begin a course of oral prednisone
 - B) follow the child and see if the nephrotic syndrome resolves
 - C) perform a diagnostic renal biopsy
 - D) collect a 24 hour urine for creatinine clearance and protein excretion
- 17.All the following conditions are characterized by hypochromic, microcytic red cells EXCEPT
 - A) iron deficiency anemia
 - B) thalassemia major
 - C) glucose-6-phosphate dehydrogenase
 - D) anemia of chronic disease

18.Drug used for treatment of autonomic storm due to scorpion sting is

- A) Adrenaline
- B) Propranolol
- C) Prazosin
- D) Noradrenaline
- 19.An 8 month old girl is noted to have asymmetric use of her arms. The right arm is held in a flexed position with the hand in a fist. The neurologic examination also reveals increased tone in the right ankle and hyper reflexia on the right side. The past history is significant for premature delivery at 28 weeks gestation. The most likely diagnosis for this child is
 - a) Duchenne muscular dystrophy
 - b) Spinomuscular atrophy
 - c) Brachial palsy
 - d) Cerebral palsy
- 20.2 year old child was brought with history of fever, cough and cold for 1 day and 1 episode of generalized tonic clonic seiure. Temperature was 102°F. What

- a) Duration of seizure
- b) Any features suggestive of meningitis
- c) Is she developmentally normal?
- d) All of the above

Theory and practical assessment marks as per table provided by NMC

a. Assessment method of theory

S.	Roll	Name	1 st PCT	2 nd PCT	Pre	Home	Cont	Se	Museu	Llibra	Atte	Tot
Ν	nO	of the	practical/F	practical	lim	assign	inuo	mi	m study	ry	ndan	al
0		studen	irst ward	/ Second	S	ment	us	nar		assign	ce	
		t	leaving	ward	pra		class			ment	theo	
			examinati on	leaving examinat ion	ctic al		test (LM S)	Self	Directed le	earning	ry	
			100	100	10 0	10	25	10	10	10	10	37 5

b. Assessment method of practical

			Formative assessment			Continuous	interna					
					Long book	(150)						
S.	Roll.	Stu	1 st PCT	2 nd PCT	Prelims	Certificate	AET	SVL lab	Resea	Jou	Att	Tota
No	No	den t	practical/ First ward leaving	practical / Second ward leaving	practical	skill based competenc	CO M	activity	rch	rna 1	end anc	1
			examinat ion	examinati on		ies					e	
			100	100	100	60	30	50	20	40	10	500

Department of Orthopedics

COURSE DESCRIPTION

GOAL:

The broad goal of the teaching of undergraduate students in orthopedics is to enable them capable of delivering efficient first contact orthopedic care.

COMPETENCIES:

The student must demonstrate:

1. Ability to recognize and assess bone injuries, dislocation and poly-trauma and provide first Contact care prior to appropriate referral,

2. Knowledge of the medico-legal aspects of trauma,

3. Ability to recognize and manage common infections of bone and joints in the primary care Setting,

4. Recognize common congenital, metabolic, neoplastic, degenerative and inflammatory bone Diseases and refer appropriately,

5. Ability to perform simple orthopaedic techniques as applicable to a primary care setting,

6. Ability to recommend rehabilitative services for common orthopaedic problems across all Ages.

Integration: The teaching should be aligned and integrated horizontally and vertically in order to allow the student to understand the structural basis of orthopaedic problems, their management and correlation with function, rehabilitation and quality of life.

COURSEOUTCOMES

At the end of the course, the learner shall be able to:

A. Knowledge

The student shall be able to:

1. Explain the principles of recognition of bone injuries and dislocations;

2. Apply suitable methods to detect and managed common infections of bones and joints;

3. Identify congenital, skeletal anomalies and their referral for appropriate correction or rehabilitation;

- 4. Recognize metabolic bone diseases as seen in this country;
- 5. Explain etiology, pathogenesis, manifestations, and diagnosis of neoplasm affecting bones
- 6. Enumerate few recent advances in Orthopaedics.

B. Skills

1. Detect sprains and deliver first aid measures for common fractures and sprains and manage Uncomplicated fractures of clavicle, Colle's fracture, and phalanges fractures;

- 2. Use technique of splinting, plaster, and immobilization;
- 3. Manage common bone infections
- 4. Describe indications for sequestrectomy, amputations & corrective measures for bone deformities;
- 5. Advice aspects of rehabilitation for polio, cerebral palsy and amputation

C. Application

Be able to perform certain orthopaedics skills, provide sound advice of skeletal and related conditions at primary OR secondary health care level.

ORTHOPAEDICS

Total teaching hours for MBBS Third Professional year (Part I)

Subject	Lecture (hours)	Tutorials/Semin ars/Integrated teaching (hours)	Self- Directed Learning (hours)	Clinical Posting (hours)	Skill lab (hours)	Total
Orthopaedics	15	20	5	60	12	112

The clinical postings in third professional part I shall be 18hours per week (3hours per day from Monday to Saturday)

Atleast 3hours of clinical instruction each week must be allotted to training in clinical and procedural skill laboratories

SL. NO.	ΤΟΡΙΟ	Lectures (hours)	Tutorials/Seminars/ Integrated teaching (hours)
1.	SKELETAL TRAUMA, POLYTRAUMA	1	3
2.	FRACTURES	9	12
3.	MUSCULOSKELETAL INFECTION	3	3
4.	SKELETAL TUBERCULOSIS	2	2

Orthopaedics topics for MBBS Third Professional year (Part I)

COURSE CONTENTS:

OR 1.1- Competency as represented in the MCI Competency Based Undergraduate Curriculum for the Indian Medical Graduate Volume – III 2018, where first two alphabets OR represents subject Orthopaedics and number following alphabet reflects topic number.

THEORY

Topics	Numbe r	COMPETE NCIES	Domain K/S/A/ C	Level K/K H/SH /P	Co re	Sugges ted Teachi ngLear ning metho d	Suggest ed Assessm ent method	Vertical Integrat ion(VI)	Horizontal Integratio n(HI)
SKELET AL TRAUM	OR1.1	Describe and discuss the Principles of pre-hospital care and Casualty management of a trauma victim including principles of triage	K	КН	Y	Lecture / Small group discussi on	Written and VivaVo ce		
A, POLYTR AUMA									
	OR1.2	Describe and discuss the aetiopathoge nesis, clinical features, investigation s, and principles of management of shock	K	КН	Y	Lecture	Written and VivaVo ce		
	OR1.3	Describe and discuss the aetiopathoge nesis, clinical features, investigation	К	КН	Y	Lecture / Small group discussi on	Written and VivaVo ce		
		s, and principles of management of soft tissue injuries							
	OR1.4	Describe and discuss the Principles of management of soft tissue	К	KH	Y	Lecture / Small group	Written and VivaVo		

		injuries				discussi on	ce	
	OR1.5	Describe and discuss the aetiopathoge nesis, clinical features, investigation s, and principles of management of dislocation of major joints, shoulder, knee, hip	K	КН	Y	Lecture / Bed side clinic	Written and VivaVo ce	
	OR1.6	Participate as a member in the team for closed reduction of shoulder dislocation / hip dislocation / knee dislocation	K/S	SH	Y	Simulat ion/DO AP Session	Written and VivaVo ce	
FRACTU	OR2.1	Describe and discuss the mechanism of Injury, clinical features, investigation s and plan management of fracture of clavicle	K	КН	Y	Lecture	Written and VivaVo ce	
RES								
	OR2.2	Describe and discuss the mechanism of Injury, clinical features,	К	КН	Y	Lecture	Written and VivaVo ce	
		investigation s and plan management of fractures of proximal humerus						
	OR2.3	Select, prescribe and communicat e appropriate medications for relief of	K	KH	Y	Lecture / Small group discussi	Written and VivaVo ce	

	joint pain				on/ Bed side clinic		
OR2.4	Describe and discuss the mechanism of injury, clinical features, investigation s and principles of management of fracture of shaft of humerus and intercondyla r fracture humerus with emphasis on neurovascul ar deficit	Κ	KH	Y	Lecture / Small group discussi on/ Bed side clinic	Written and VivaVo ce	
OR2.5	Describe and discuss the aetiopathoge nesis, clinical features, mechanism of injury, investigation & principles of management of fractures of both bones forearm and Galeazzi and Monteggia injury	K	KH	Y	Lecture / Small group discussi on(X2)/ Bed side clinic	Written and VivaVo ce	
OR2.6	Describe and discuss the aetiopathoge nesis, mechanism of injury, clinical features, investigation s and principles of management of fractures of distal	K	КН	Y	Lecture / Bed side clinic	Written and VivaVo ce	
OR2.7	radius Describe and discuss the aetiopathoge nesis, mechanism of injury, clinical features, investigation s and principles of management	K	КН	Y	Lecture	Written and VivaVo ce	

	of pelvic injuries with emphasis on hemodynami c instability						
OR2.8	Describe and discuss the aetiopathoge nesis, mechanism of injury, clinical features, investigation s and principles of management of spine injuries with emphasis on mobilisation of the patient	К	KH	Y	Lecture	Written and VivaVo ce	
OR2.9	Describe and discuss the mechanism of injury, Clinical features, investigation s and principle of management of acetabular fracture	K	КН	Y	Lecture	Written and VivaVo ce	
OR2.10	Describe and discuss the aetiopathoge nesis, mechanism of injury, clinical features, investigation s and principles of management of fractures of proximal femur	K	KH	Y	Lecture / Small group discussi on/ Bed side clinic	Written and VivaVo ce	
OR2.11	Describe and discuss the aetiopathoge nesis, mechanism	К	KH	Y	Lecture / Small group discussi	Written and VivaVo	
	of injury,				on /	ce	

	clinical features, investigation s and principles of Y management of (a)Fracture patella (b) Fracture distal femur (c) Fracture proximal tibia with special focus on neurovascul ar injury and compartmen t syndrome				Bed side clinic		
OR2.12	Describe and discuss the actiopathoge nesis, clinical features, investigation s and principles of management of Fracture shaft of femur in all age groups and the recognition and management of fat embolism as a complication	K	КН	Y	Lecture / Small group discussi on	Written and VivaVo ce	
OR2.13	Describe and discuss the aetiopathoge nesis, clinical features, Investigation and principles of management of: (a) Fracture both bones leg (b) Calcaneus (c) Small bones of foot	K	КН	Y	Lecture / Small group discussi on	Written and VivaVo ce	
OR2.14	Describe and discuss the aetiopathoge nesis, clinical	К	КН	Y	Lecture / Small group	Written and VivaVo	

	I	features,				disquari	69		
		Investigation and principles of management of ankle fractures				discussi on/ Bed side clinic	ce		
	OR2.15	Plan and interpret the investigation s to diagnose complication s of fractures like malunion, non-union, infection, compartmen tal syndrome	K	SH	Y	Lecture / Small group discussi on/ Bed side clinic	Written and VivaVo ce		
	OR2.16	Describe and discuss the mechanism of injury, clinical features, investigation s and principles of management of open fractures with focus on secondary infection prevention and management	K	KH	Y	Lecture / Small group discuss ion/ Bed side clinic	Written and VivaVo ce		
MUSCUL OSKELE TAL INFECTI ON	OR3.1	Describe and discuss the aetiopathoge nesis, clinical features, investigation s and principles of management of Bone and Joint infections a) Acute Osteomyeliti s b) Subacute osteomyeliti s c) Acute Suppurative arthritis d) Septic arthritis & HIV infection e) Spirochaetal	K	КН	Y	Lecture / Small group discuss ion/ Bed side clinic	Written and VivaVo ce	AN, MI,PA,	RD

		infection							
		f) Skeletal Tuberculosis							
	OR3.2	Participate as a member in team for aspiration of joints under supervision	K/S	SH	Y	Small group discussi on/DO AP session	Written and VivaVo ce		
	OR3.3	Participate as a member in team for procedures like drainage of abscess, sequestrecto my/ saucerisation and arthrotomy.	K/S	SH	Y	DOAP session	Written and VivaVo ce		
SKELET AL TUBERC ULOSIS	OR4.1	Describe and discuss the clinical features, Investigation and principles of management of Tuberculosis affecting major joints (Hip, Knee) including cold abscess and caries spine	K	KH	Y	Lecture / Small group discuss ion/ Bed side clinic	Written and VivaVo ce	MI,PA, PH	RD

* AN – Anatomy, PA - Pathology, PH – Pharmacology, RD - Radio diagnosis,

Theory: Competencies with Specific Learning Objectives (SLOs) and teaching learning methods (TLM)

Section	Competencies with SLOs	Lectur	Seminar/	SDL
	At the end of the course, Third professional part I MBBS student should be able to	e15	Tutorials 20	5
SKELETA L TRAUMA, POLYTRA UMA	OR1.1 Describe and discuss the Principles of pre-hospital care and Casualty management of a trauma victim including principles of triage			

1-Describe the principles of field triage?		✓	
2-Define the zones of triage and describe its principles?			
3-Describe the principles of first aid?			-
4-Demostrate the principles of prevention of blood loss in a			
trauma victim?			
5-Demostrate the principles of stabilization of spine and			
transport of accident victim?			
6-Demonstate the principles of splinting the injured upper and			
lower limb?			
OR1.2 Describe and discuss the aetiopathogenesis, clinical			
features, investigations, and principles of management of			
shock			
SHUCK			
1-Define shock?	\checkmark		
2-Mention the types of shock?			
• •			
3-Describe the etiopathogenesis of the shock?			
4-Describe the clinical features and management of			
haemorrhagic shock?			
OR1.3 Describe and discuss the aetiopathogenesis, clinical			
features, investigations, and principles of management of			
soft tissue injuries			
1-Describe the types of soft tissue injury?		✓	
		v	
2-Describe ligament injuries and muscle injuries?			
3-Describe open and closed injuries?			
4-Discuss the importance of soft tissue injuries on fractures?			
 OD1 4 Describe and discuss the Drinciples of management			
OR1.4 Describe and discuss the Principles of management			
of soft tissue injuries			
1-Describe the types of soft tissue injury?			
2-Describe ligament injuries and muscle injuries?			
3-Describe open and closed injuries?			
4-Discuss the importance of soft tissue injuries on fractures?			
OR1.5 Describe and discuss the aetiopathogenesis, clinical			
features, investigations, and principles of management of			
dislocation of major joints, shoulder, knee, hip			
disideation of major joints, shoulder, knee, mp			
1-Define subluxation and dislocation?		\checkmark	
2. Mention the types of shoulder joint dislocation?			
3. Discuss the aetiopathogenesis of anterior & posterior shoulder			
dislocation?			
4. Discuss the clinical features (signs & symptoms) of anterior			
& posterior shoulder dislocation?			
5. Discuss the complications of shoulder joint dislocation?			
6.Describe the reduction manoeuvre (Kocher's & Stimson's			
methods			
 OR1.6 Participate as a member in the team for closed			
reduction of shoulder dislocation / hip dislocation / knee			
dislocation			

	,	1
1. Mention the types of hip joint dislocation?		
2. Discuss the aetiopathogenesis of posterior hip dislocation?		
3. Discuss the clinical features (signs & symptoms) of posterior		
hip dislocation?		
4. Discuss the complications of hip joint dislocation?		
5.Describe the reduction manoeuver of hip dislocation (Allis		
methods)		
OR 2.1 Describe and discuss the mechanism of Injury,		
clinical features, investigations and plan management of		
fracture of clavicle		
1. Describe salient anatomical features of clavicle	✓	
2. Describe the mechanism of injury of fracture of clavicle		
3. Describe clinical feature and investigations for a patient with		
clavicle fracture		
4. Discuss the conservative and surgical management of		
clavicular fractures		
5. Discuss the complications of clavicular fractures		
OR 2.2 Describe and discuss the mechanism of Injury,		
clinical features, investigations and plan management of		
fractures of proximal humerus		
1. Describe the anatomy of proximal part of humerus and	✓	
attachments of rotator cuff		
2. Describe the blood supply of proximal humerus		
3. Describe the i) clinical features and ii) radiological views for		
proximal humerus fractures		
4. Discuss the i) conservative management ii) surgical		
management of fracture of proximal humerus		
OR 2.3 Select, prescribe and communicate appropriate		
medications for relief of joint pain		
1. Mention the various causes of joint pain		
2. Discuss the investigations in a patient with joint pain		
3. Discuss the various drugs prescribed to a patient with joint		
pain		
4. What are the different types of NSAIDs and its		
contraindications in orthopaedic pain management		
5. Mention the precautions to be taken while prescribing		
NSAIDs		
OR 2.4 Describe and discuss the mechanism of injury,		
clinical features, investigations and principles of		
	1 1	
management of fracture of shaft of humerus and		
management of fracture of shaft of humerus and intercondylar fracture humerus with emphasis on		

1. Describe the mechanism of injury in a patient with fracture	~		
shaft of humerus.			
2. Discuss the clinical features and investigations in a patient with fracture shaft of humerus			
3. Should be able to identify Holstein-Lewis fracture4. Discuss the management of fracture shaft of humerus			
5. Describe the mechanism of injury in a patient with			
intercondylar fracture of humerus.			
6. Discuss the anatomy of distal end of humerus			
7. Discuss the clinical features and investigations in a patient			
with intercondylar fracture of humerus			
8. Discuss the management of intercondylar fracture of humerus			
8. Discuss the management of intercondylar fracture of numerus			
OR 2.5 Describe and discuss the aetiopathogenesis, clinical			
features, mechanism of injury, investigation & principles of			
management of fractures of both bones forearm and			
Galeazzi and Monteggia injury			
1. Describe the flexor muscles of forearm	✓		
2. Describe the mechanism of injury for both bone fracture of			
forearm			
3. Define Galezzai fracture the mechanism of injury for Galeazzi			
fracture			
4. Define Monteggia fracture and describe the mechanism of			
injury for Monteggia fracture			
5. Describe the clinical features and management for both bone			
fracture of forearm			
6. Describe the clinical features and management for Galeazzi			
fracture			
7. Describe the clinical features and management for Monteggia			
fracture			
OP 2 (Describe on 1 discuss the estimate severing			
OR 2.6 Describe and discuss the aetiopathogenesis,			
mechanism of injury, clinical features, investigations and principles of management of fractures of distal radius			
principles of management of fractures of distal faulus			
1. Enumerate the named fractures around the distal end of radius	✓	✓	
2. Describe mechanism of injury of each fracture around distal			
end of radius			
3. Define Colles fracture and discuss mechanism of injury			
4. Mention the different types of displacement in Colles fracture			
5. Discuss the clinical feature and investigations of Colles			
fracture			
6. Discuss the conservative line of management and of Colles			
fracture			
7. Discuss the surgical line of management of Colles fracture			
8. Enumerate the complications of Colles fracture			
OR 2.7 Describe and discuss the aetiopathogenesis,			
mechanism of injury, clinical features, investigations and			
principles of management of pelvic injuries with emphasis			
on hemodynamic instability			

 Describe the gross anatomy of pelvic bone Describe the mechanism of pelvic injury and classifypelvic fracture Describe the clinical features of pelvis injury Discuss the investigations and management of pelvic injuries Discuss the hemodynamic instability in pelvis injuries and its management 		✓	
OR 2.8 Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of spine injuries with emphasis of mobilisation of the patient	n		
 Describe the gross anatomy of spine Describe the mechanism of spine injuries and classify spine fracture Describe the clinical features of spine injuries Discuss the investigations and management of spine injuries Discuss the clinical features of spinal shock and its management Discuss the complications of spine injuries 	✓		
OR 2.9 Describe and discuss the mechanism of injury, Clinical features, investigations and principle of management of acetabular fracture			
 Describe the gross anatomy of acetabulum Describe the mechanism of acetabulum fracture and classify Describe the clinical features of acetabulum fracture Discuss the investigations and management of acetabulum fracture 	√		
OR 2.10 Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of proximal femur			
 a)1. Describe the gross anatomy of proximal femur 2. Describe the mechanism of injury and classification of fracture neck of femur 3. Describe the clinical features of fracture neck of femur 4. Discuss the investigations and management of fracture neck of femur b) 1. Describe the gross anatomy of proximal femur 2. Describe the mechanism of injury and classification of Trochanteric fracture 3. Describe the clinical features of Trochanteric fracture 4. Discuss the investigations and management of Trochanteric fracture 4. Discuss the investigations and management of Trochanteric 		×	
fracture			

OR 2.11 Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of a)Fracture patella (b) Fracture distal femur (c) Fracture proximal tibia with special focus on neurovascular injury and compartment syndrome		
 a)1. Describe the anatomy of patella 2. Describe the mechanism of injury of patella bone fracture 3. Describe the clinical features of patella bone fracture 4. Discuss the investigations and management of patella bone fracture b)1. Describe the anatomy of distal femur 2. Describe the mechanism of injury of distal femur fracture 3. Describe the clinical features of distal femur fracture 4. Discuss the investigations and management of distal femur fracture 3. Describe the clinical features of distal femur fracture 4. Discuss the investigations and management of distal femur fracture c) 1. Describe the anatomy of proximal tibia 2. Describe the mechanism of injury of proximal tibia fracture 3. Describe the clinical features of proximal tibia fracture 4. Discuss the investigations and management of proximal tibia fracture 5. Discuss compartment syndrome with respect to proximal tibia fracture 		
OR 2.12 Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of Fracture shaft of femur in all age groups and the recognition and management of fat embolism as a complication		
 A) Paediatric femur bone 1. Describe the anatomy of paediatric femur bone 2. Describe the mechanism of injury of paediatric femur shaft fracture 3. Describe the clinical features of paediatric femur shaft fracture 4. Discuss the investigations and management of paediatric femur shaft fracture B) Adult femur bone 1. Describe the anatomy of adult femur bone 2. Describe the mechanism of injury of adult femur shaft fracture 	~	

OR 2.13 Describe and discuss the aetiopathogenesis, clinica features, Investigation and principles of management of: (a) Fracture both bones leg (b) Calcaneus (c) Small bones of foot	1		
 a)1. Describe the anatomy of tibia and fibula 2. Describe the mechanism of injury of fracture both bone leg 3. Describe the clinical features of fracture both bone leg 4. Discuss the investigations and management of fracture both bone leg b)1. Describe the anatomy of calcaneus 2. Describe the mechanism of injury of fracture calcaneus 3. Describe the clinical features of fracture calcaneus 4. Discuss the investigations and management of fracture calcaneus c)1. Describe the anatomy of small bone of foot 2. Describe the mechanism of injury of fracture small bone of foot 3. Describe the clinical features of fracture small bone of foot 	l		
OR 2.14 Describe and discuss the aetiopathogenesis, clinica features, Investigation and principles of management of ankle fractures	1		
 Describe the anatomy of ankle joint Describe the mechanism of injury of ankle fractures, ankle injuries Describe the clinical features of ankle fractures Discuss the investigations and management of ankle fractures 	es 🗸	V	
OR 2.15 Plan and interpret the investigations to diagnose complications of fractures like malunion, non-union, infection, compartmental syndrome			
 Define malunion, delayed union and non-union Describe the etiopathogenesis of malunion, delayed union, non-union and infective non-union Describe the clinical features of malunion, delayed union non-union and infective non-union Discuss the investigations and principles of management of malunion, delayed union non-union and infective non-union Define compartmental syndrome Describe the clinical features of compartmental syndrome Describe the investigations compartmental syndrome Describe the principles of management of compartmental syndrome Describe the principles of management of compartmental syndrome Describe the principles of management of compartmental syndrome Describe the complications of compartmental syndrome 	n-	~	

OR 2.16 Describe and discuss the mechanism of injury, clinical features, investigations and principles of management of open fractures with focus on secondary infection prevention and management		
 Define fracture and classify fractures Describe the Mechanism of injury of open fractures Describe the clinical features of open fractures Discuss the investigations of open fractures Discuss the principles of management of open fractures Describe the complications of open fractures 	~	
OR 3.1 describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of Bone and Joint infections a) Acute Osteomyelitis b) Subacute osteomyelitis c) Chronic osteomyelitis d) Septic arthritis & HIV infection e) Spirochaetal infection f) Skeletal Tuberculosis		
 a) 1. Define Osteomyelitis and Classify 2. Describe the etiopathogenesis of Acute Osteomyelitis 3. Describe the clinical features of Acute Osteomyelitis 4. Discuss the investigations of Acute Osteomyelitis 5. Discuss the principles of management of Acute Osteomyelitis b) Define Subacute osteomyelitis / Brodie's abscess 2. Describe the etiopathogenesis of Subacute osteomyelitis 3. Describe the clinical features of Subacute osteomyelitis 3. Describe the etiopathogenesis of Subacute osteomyelitis 4. Discuss the investigations of Subacute osteomyelitis 5. Discuss the principles of management of Subacute osteomyelitis 5. Discuss the principles of management of Subacute osteomyelitis 6. Describe the complications of Subacute osteomyelitis c) Describe the complications of Subacute osteomyelitis c) Describe the etiopathogenesis of Chronic osteomyelitis c) Define Chronic osteomyelitis 2. Describe the etiopathogenesis of Chronic osteomyelitis d) Define Chronic osteomyelitis 3. Describe the clinical features of Chronic osteomyelitis 4. Discuss the investigations of Chronic osteomyelitis 5. Discuss the principles of management of Chronic osteomyelitis 6. Describe the complications of Chronic osteomyelitis d) Define Septic arthritis and Tom Smith arthritis d) Define Septic arthritis and Tom Smith arthritis d) Describe the clinical features of Septic arthritis of hip & knee and Tom Smith arthritis d) Describe the clinical features of Septic arthritis of hip & knee and Tom Smith arthritis d) Discuss the investigations of Septic arthritis of hip & knee and Tom Smith arthritis 		

	C Describe the complications of Continue (1.11) C11 - 0.1			
	6. Describe the complications of Septic arthritis of hip & knee			
	and Tom Smith arthritis			
	e)1. Define Skeletal Tuberculosis- TB HIP			
	2. Describe the etiopathogenesis of Skeletal Tuberculosis - TB			
	HIP 3. Describe the clinical			
	features of Skeletal Tuberculosis - TB HIP			
	4. Discuss the investigations of Skeletal Tuberculosis - TB HIP			
	5. Discuss the principles of management of Skeletal			
	Tuberculosis - TB HIP			
	6. Describe the complications of Skeletal Tuberculosis -TB HIP			
	f)1. Define Skeletal Tuberculosis- TB SPINE			
	2. Describe the etiopathogenesis of Skeletal Tuberculosis - TB			
	SPINE 3. Describe the			
	clinical features of Skeletal Tuberculosis - TB SPINE			
	4. Discuss the investigations of Skeletal Tuberculosis - TB			
	SPINE 5. Discuss the principles of management			
	of Skeletal Tuberculosis - TB SPINE			
	6. Describe the complications of Skeletal Tuberculosis -TB			
	-			
	SPINE			
	OR 3.2 Participate as a member in team for aspiration of			
	joints under supervision			
	joints under supervision			
	1. Describe the normal anatomy of knee joint		✓	
	2. Describe normal characteristic of synovial fluid.			
	3. Mention the indication for Aspiration of knee joint			
	4. Explain steps involved in aspiration of knee joint			
	OR 3.3 Participate as a member in team for procedures like			
	drainage of abscess, sequestrectomy/ saucerisation and			
	arthrotomy			
	1. Define abscess and its etiology			
	e.		•	
	2. Explain steps of incision and drainage			
	3. Define chronic osteomyelitis, etiology and types			
	4. Define sequestrectomy and saucerisation			
	5. Discuss steps involved in sequestrectomy and saucerisation			
	6. Define arthrotomy and its indications			
	7. discuss technique involved in knee arthrotomy			
	-			
	OR 4.1 Describe and discuss the clinical features,			
	Investigation and principles of management of Tuberculosis			
	affecting major joints (Hip, Knee) including cold abscess and			
	caries spine			
	a) Tuberculosis of hin isint	./		
	a) Tuberculosis of hip joint	Ť		
	1. Describe the etiopathogenesis of Tuberculosis of hip joint			
	2. Describe the clinical features of Tuberculosis of hip joint			
	3.Describe the different stages of Tuberculosis of hip joint			
1	4 Discuss the investigations of Tuberculosis of him joint			
	4.Discuss the investigations of Tuberculosis of hip joint			
	5. Discuss the principles of management of Tuberculosis of hip			
	5. Discuss the principles of management of Tuberculosis of hip			
	5. Discuss the principles of management of Tuberculosis of hip joint			
	5. Discuss the principles of management of Tuberculosis of hip			

1. Describe the etiopathogenesis of Tuberculosis of knee joint	
2. Describe the clinical features of Tuberculosis of knee joint	
3.Discuss the investigations of Tuberculosis of hip joint	
4. Discuss the principles of management of Tuberculosis of hip	
joint	
5.Describe the complication of Tuberculosis of hip joint	
c) Tuberculosis of spine	
1. Describe the etiopathogenesis of Tuberculosis of spine	
2. Describe the clinical features of Tuberculosis of spine	
3.Discuss the investigations of Tuberculosis of spine	
4. Discuss the principles of management of Tuberculosis of	
spine	
5.Describe the complication of Tuberculosis of spine	
d) Cold abscess Tutorials	
e) Carries spine Tutorial	

Bedside Clinics in Orthopaedics for MBBS Third Professional year (Part I)

Topics	Number	COMPETENCIES	Hours
SKELETAL TRAUMA, POLYTRAUMA	OR1.5	Elicit, document and present a history in a patient presenting with dislocation of shoulder, hip and knee joint	
FRACTURES	OR2.4 OR2.15	Elicit, document, present a history and clinical findings in a patient presenting with malunited Supracondylar fracture with emphasis of neurovascular deficit	
	OR2.6 OR2.15	Elicit, document, present a history and clinical findings in a patient presenting with malunited distal end radius fracture	
	OR2.10 OR2.15	Elicit, document, present a history and clinical findings in a patient presenting with malunited intertrochanteric femur fracture	
	OR2.10 OR2.15	Elicit, document, present a history and clinical findings in a patient presenting with non-union of femur neck fracture	
	OR2.11 OR2.15	Elicit, document and present a history in a patient presenting with proximal tibia fracture with emphasis of neurovascular injury and compartment syndrome.	
	OR2.14	Elicit, document and present a history in a patient presenting with ankle fractures	

	OR2.16 OR2.15	Elicit, document and present a history in a patient presenting with open fractures and focus on secondary infection prevention.	
MUSCULOSKELETAL INFECTION	OR3.1	Elicit, document, present a history and clinical findings in a patient presenting with acute osteomyelitis	
	OR3.1	Elicit, document, present a history and clinical findings in a patient presenting with chronic osteomyelitis.	
SKELETAL TUBERCULOSIS	OR4.1	Elicit, document, present a history and clinical findings in a patient presenting with skeletal tuberculosis	

Clinical postings and skill lab

1st week

		Method of Assessment
OPD	Observe and record new and follow up cases in OPD(2hrs) AETCOM (1hr)	OSCE
Post Admission day ward rounds	Follow up of assigned cases(1hr), Bedside clinics (General scheme of History taking) SGD,DOAP(1hr), SDL, Discussion and closure (1hr)	OSCE
ОТ	Observe OT procedures and document in the logbook with Discussion(3hrs)	OSCE
Ward	Follow up of assigned cases(1hr), Bedside clinics (General physical examination) SGD, DOAP(1hr), SDL, Discussion and closure (1hr)	OSCE
Ward	Follow up of assigned cases(1hr), Bedside clinics (General physical examination) SGD, DOAP(1hr), SDL, Discussion and closure (1hr)	OSCE
Skill lab	OR13.2 Describe the Principles of FIRST AID Small group discussion (1 hr) DOAP(1hr), SDL, Discussion and closure (1hr)	OSCE with Simulation based assessment

		Method of Assessment
OPD	Observe and record new and follow up cases in OPD(2hrs) AETCOM (1hr)	OSCE
Post Admission day ward rounds	Follow up of assigned cases(1hr), Bedside clinics (History taking, physical examination of a case of discharging sinus) SGD,DOAP(1hr), Discussion and closure (1hr)	OSCE
ОТ	Observe OT procedures and document in the logbook with Discussion(3hrs)	OSCE
Ward	Follow up of assigned cases(1hr), Bedside clinics (History taking, physical examination of a case of Swelling) SGD,DOAP(1hr), SDL, Discussion and closure (1 hr)	OSCE
Ward	Follow up of assigned cases(1hr), Bedside clinics (History taking, physical examination of a case of deformity) SGD,DOAP(1hr), SDL, Discussion and closure (1 hr)	OSCE
Skill lab	OR13.2 Participate as a member in team for Resuscitation of Polytrauma victim Small group discussion (1 hr), DOAP(1 hr), SDL, Discussion and closure (1 hr)	OSCE with Simulation based assessment

3rd week

		Method of Assessment
OPD	Observe and record new and follow up cases in OPD(2hrs) AETCOM (1hr)	OSCE
Post Admission day ward rounds	Follow up of assigned cases(1hr), Bedside clinics (History taking, physical examination of a case of deformed limb) DOAP(1hr), Discussion and closure (1hr)	OSCE
ОТ	Observe OT procedures and document in the logbook with Discussion(3hrs)	OSCE
Ward	Follow up of assigned cases(1hr), Bedside clinics (History taking, physical examination of a case of Malunited fracture) SGD,DOAP(1hr), SDL, Discussion and closure (1 hr)	OSCE

Ward	Follow up of assigned cases(1hr), Bedside clinics (History taking, physical examination of a case of non-union) SGD,DOAP(1hr), SDL, Discussion and closure (1 hr)	OSCE
Skill lab	OR13.2 Demonstrate maintenance of an airway and Splintage of injured limb in a mannequin or equivalent Small group discussion (1 hr) DOAP(1 hr), SDL, Discussion and closure (1 hr)	OSCE with Simulation based assessment

4th week

		Method of Assessment
OPD	Observe and record new and follow up cases in OPD(2hrs) AETCOM (1hr)	OSCE
Post Admission day ward rounds	Follow up of assigned cases(1hr), Bedside clinics (History taking, physical examination of a case of swelling) DOAP(1hr), Discussion and closure (1hr)	OSCE
ОТ	Observe OT procedures and document in the logbook with Discussion(3hrs)	OSCE
Ward	Follow up of assigned cases(1hr), Bedside clinics (History taking, physical examination of a case of joint effusion) SGD,DOAP(1hr), Discussion and closure (1hr)	OSCE
Ward	Follow up of assigned cases(1hr), Bedside clinics (History taking, physical examination of a case of joint pain) SGD,DOAP(1hr), SDL, Discussion and closure (1 hr)	OSCE
Skill lab	OR13.1 Participate in a team for above elbow plaster application in patients and Demonstrate ability to perform in a mannequin or equivalent. Small group discussion (1 hr)	OSCE with Simulation based assessment
	DOAP(1 hr), SDL, Discussion and closure (1 hr)	

Internal Assessment

examination: -- Theory: 100

<u>marks</u>

One internal assessments (IA) will be conducted at the end of module one and module two for 100 marks. Average marks of all theory internal assessment examinations (IAE) is taken into consideration for calculating the final internal assessment marks. Marks obtained by Periodic Assessment tests like Quiz, PCT, MCQs, will be added to theory internal marks.

Please note: Prior to submission to the University, the marks for each of the two internal examination theory assessments will be calculated out of 10 marks(1/4th of General Surgery marks), regardless of the maximum marks.

Type of Questions	Number of questions	Marks for each question	Total
Multiple Choice Questions	20	1	20
Long Essay Questions	2	10	20
Short Essay Questions	6	5	30
Reasoning Questions / Short Answer Questions	10	3	30
Total marks			100

Note:

- Case Based Questions: 20% of total marks.
- Two questions based on integration (AITo) in Internal Assessment Examination and one question from AETCOM.
- A student who has not taken minimum required number of tests for Internal Assessment, each in theory and practical will not be eligible for University examinations.
- The results of Internal Assessment should be displayed on notice board within 2 weeks of the test and an opportunity to be provided to the students to discuss the results and get feedback on making their performance better.
- Internal assessment marks will not be added to University examination marks and will reflect as a separate head of passing at the summative examination.

Practical/Viva: --100 Marks

Two practical assessments will be conducted along with the Theory Internal Assessments. Average marks of the practical IAE will be taken. The marks obtained for Logbook, Record Book and Professionalism will be added to practical IAE marks. Objective Structured Practical Examination will be a method of assessment in Internal Assessment and Summative examination.

Total teaching hours for MBBS Third Professional year (Part II)

Subject	Lecture	Tutorials/Semin	Self-	Clinical	Skill lab	Total
	(hours)	ars/Integrated	Directed	Posting	(hours)	
	(nours)	teaching (hours)	Learning (hours)	(hours)	(nours)	
Orthopaedic	20	25	5	30	6	86
S						

The clinical postings in third professional part II shall be 18hours per week (3hours per day from Monday to Saturday)

Atleast 3hours of clinical instruction each week must be allotted to training in clinical and procedural skill laboratories

Orthopaedics topics for MBBS Third Professional year (Part II)

SL.	TOPIC	Lectures	Tutorials/Seminars
NO.		(hours)	/Integrated
			teaching (hours)

1.	RHEUMATOID ARTHRITIS AND ASSOCIATED INFLAMMATORY DISORDERS	3	4	
2.	DEGENERATIVE DISORDERS	1	1	
3.	METABOLIC BONE DISORDERS	2	3	
4.	POLIOMYELITIS	1	1	
5.	CEREBRAL PALSY	1	1	
6.	BONE TUMOURS	6	3	
7.	PERIPHERAL NERVE INJURIES	3	4	
8.	CONGENITAL LESIONS	3	4	
9.	PROCEDURAL SKILLS		2	
10.	COUNSELLING SKILLS		2	

COURSE CONTENTS:

OR 1.1- Competency as represented in the MCI Competency Based Undergraduate Curriculum for the Indian Medical Graduate Volume – III 2018, where first two alphabets OR represents subject Orthopaedics and number following alphabet reflects topic number.

Topics	Nu mb er	COMPETENCI ES	Domai n K/S/A/ C	Level K/K H/SH /P	Cor e	Suggeste d Teaching Learning method	Sugges tedAss essmen tmetho d	Vertic al Integr ation(VI)	Horizo ntal integr ation(HI)
RHEUMAT OID ARTHRITI S AND ASSOCIAT ED INFLAMM ATORY DISORDE RS	OR 5.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of various inflammatory disorder of joints	K	KH	Y	Lecture/ Small group discussio n/ Bed side clinic	Writte n and VivaV oce	✓ PA,IM, PH	
DEGENER ATIVE DISORDE RS	OR 6.1	Describe and discuss the clinical features, investigations and principles of management of degenerative condition of spine (Cervical Spondylosis, Lumbar Spondylosis, PID)	K	KH	Y	Lecture/ Small group discussio n/ Bed side clinic	Writte n and VivaV oce		

	METABOL IC BONE DISORDE RS	OR 7.1	Describe and discuss the aetiopathogenesis, clinical features, investigation and principles of management of metabolic bone disorders in particular osteoporosis, osteomalacia, rickets, Paget's disease	, К	KH	Y	Lecture/ Small group discussio n/ Bed side clinic	Writte n and VivaV oce	✓ AN, PA,RD	
	POLIOMY ELITIS	OR 8.1	discuss the aetiopathogenesis, clinical features, assessment and principles of management a patient with Post- Polio Residual Paralysis		КН	Y	Lecture/ Small group discussio n/ Bed side clinic	Writte n and VivaV oce		
	CEREBRA L PALSY	OR 9.1	Describe and discuss the aetiopathogenesis, clinical features, assessment and principles of management of Cerebral palsy patient	, K	КН	Y	Lecture/ Small group discussio n	Writte n and VivaV oce		
	BONE TUMOURS	OR 10. 1	discuss the		КН	Y	Lecture/ Small group discussio n/ Bed side	Writte n and VivaV oce	✓ AN, PA,RD	
			management of benign and malignant bone tumours and pathological fractures				clinic			
A	ERIPHER L NERVE NJURIES	OR 11. 1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of peripheral nerve injuries in diseases like foot drop, wrist drop, claw hand, palsies of Radial, Ulnar, Median, Lateral Popliteal and Sciatic Nerves	Κ	КН	Y	Lecture/ Small group discussio n/ Bed side clinic	Writte n and VivaV oce		

CONGENI TAL LESIONS	OR 12. 1	Describe and discuss the clinical features, investigations and principles of management of Congenital and acquired malformations and deformities of: a. limbs and spine - Scoliosis and spinal bifida b. Congenital dislocation of Hip, Torticollis, c. congenital talipesequino varus	K	КН	Y	Lecture/ Small group discussio n/ Bed side clinic	Writte n and VivaV oce	
PROCEDU RAL SKILLS	OR 13. 1	Participate in a team for procedures in patients and demonstrating the ability to perform on mannequins / simulated patients in the following: i. Above elbow plaster ii. Below knee plaster iii. Above knee plaster iv. Thomas splint v. splinting for long bone fractures vi. Strapping for shoulder and clavicle trauma	K	KH/ SH	Y	Video assisted Lecture/ Small group discussio n/ Skill lab sessions	Writte n and VivaV oce	
	OR 13. 2	Participate as a member in team for Resuscitation of Polytrauma victim by doing all of the following : (a) I.V. access central - peripheral (b) Bladder	K	KH/ SH	Y	Videoassi sted Lecture/ Small group discussio n/ Skill lab sessions	Writte n and VivaV oce	
		catheterization c)Endotracheal intubation (d)Splintage						

COUNSEL LING SKILLS	OR 14. 1	Demonstrate the ability to counsel patients regarding prognosis in patients with various orthopaedic illnesses like a. fractures with disabilities b. fractures that require prolonged bed stay c. bone tumours d. congenital disabilities	K	KH/ SH	Y	Videoassi sted Lecture/ Small group discussio n/ Skill lab sessions	Writte n and VivaV oce	
	OR 14. 2	Demonstrate the ability to counsel patients to obtain consent for various orthopaedic procedures like limp amputation, permanent fixations etc.	К	KH/ SH	Y	Videoassi sted Lecture/ Small group discussio n/ Skill lab sessions	Writte n and VivaV oce	
	OR 14. 3	Demonstrate the ability to convince the patient for referral to a higher centre in various orthopaedic illnesses, based on the detection of warning signals and need for sophisticated management	К	KH/ SH	Y	Videoassi sted Lecture/ Small group discussio n/ Skill lab sessions	Writte n and VivaV oce	

* PA - Pathology, PH – Pharmacology, RD - Radio diagnosis, IM - General Medicine

Theory: Competencies with Specific Learning Objectives (SLOs) and teaching learning methods (TLM)

Section	Competencies with SLOs At the end of the course, Third professional part IIMBBS student should be able to	Lecture15	Seminar 20	SDL5
RHEUMAT OID ARTHRITIS AND ASSOCIATE D INFLAMMA TORY DISORDER S				
	 a) Rheumatoid Arthritis 1. Define Rheumatoid Arthritis 2.Describe the etiopathogenesis of Rheumatoid Arthritis 	v	~	-

	a) Osteoporosis	\checkmark	✓	
	1.Define Osteoporosis			
	2. Describe the etiopathogenesis of Osteoporosis .			
	3. Describe the clinical features of Osteoporosis .			
	4. Discuss the investigations of Osteoporosis .			
	5. Discuss the principles of management of Osteoporosis			
	b) Osteomalacia			
	1.Define Osteomalacia			
	2. Describe the etiopathogenesis of Osteomalacia .			
	3. Describe the clinical features of Osteomalacia .			
	4. Discuss the investigations of Osteomalacia.			
	5. Discuss the principles of management of Osteomalacia			
	c) Rickets			
	1.Define Rickets			
	2. Describe the etiopathogenesis of Rickets.			
	3. Describe the clinical features of Rickets .			
	4. Discuss the investigations of Rickets .			
	5. Discuss the principles of management of Rickets			
	d) Paget's Disease			
	1.Define Pagets Disease			1
	2.Describe the etiopathogenesis of Pagets Disease.			1
	3. Describe the clinical features of Pagets Disease .			1
	4. Discuss the investigations of Pagets Disease .			
	5. Discuss the principles of management of Pagets Disease			
	OR8.1 Describe and discuss the aetiopathogenesis, clinical			
LITIS	features, assessment and principles of management a patient			
	with Post-Polio Residual Paralysis			
	1. Describe etiopathogenesis of polio	\checkmark	~	
	2. Describe natural history of polio			
	3.Describe evaluation of case of PPRP			
	4.Describe orthopaedic management of case of PPRP			
CEREBRAL PALSY	OR9.1 Describe and discuss the aetiopathogenesis, clinical			
TALSI	features, assessment and principles of management of			
	Cerebral palsy patient			
	1.Define cerebral palsy	√	√	
	2.Classsify types			
	3. Evaluation of case of cerebral palsy			
	4.Describe management of cerebral palsy			
BONE	OR10.1 A Describe and discuss the aetiopathogenesis,			
TUMOURS	clinical features, investigations and principles of			
	management of benign bone tumors and pathological			
	fractures			
	1.describe classification of bone tumours,	✓	 ✓ 	
	2. decribe etiopathogenesis, clinical features and management of			1
	a.Osteochondroma,			1
	b.Osteoid osteoma			
	c.Osteoblastoma,			1
	d.Enchondroma,			1
	e.Chondroblastoma,			1
	f. Fibrous dysplasia			1
	g. GCT			
BONE	OR10.1B Describe and discuss the aetiopathogenesis, clinical			
TUMOURS	features, investigations and principles of management of			
	malignant bone tumours (A.Osteosarcoma, B.Ewings			
	sarcoma, C. Chondrosarcoma, D. Multiple myeloma)			1
				<u> </u>

	a) 1.Define malignant bone tumours	\checkmark	\checkmark	
	2.Describe types of osteosarcoma and its clinical features			
	3.Describe etiopathogenesis			
	4.Explain the investigation and management			
	b)1. Define Ewing's sarcoma			
	2.Describe clinical feature of Ewing's sarcoma			
	3.Describe etiopathogenesis of Ewing's sarcoma			
	4.Enumerate investigation for Ewing's sarcoma			
	5.Explain how to manage Ewing's sarcoma			
	c) 1.Define chondrosarcoma and its clinical features			
	2.Describe etiopathogenesis of chondrosarcoma			
	3.Enumerate investigation for chondrosarcoma			
	_			
	4.Explain how to manage these chondrosarcoma			
	d)1.Define Multiple Myeloma and mention its clinical feature			
	2.Describe etiopathogenesis of Ewing's sarcoma			
	3.Enumerate investigation for Ewing's sarcoma			
	4.Describe the management of Ewing's sarcoma			
DEDIDHED	OP11 1 Describe and discuss the action the generic elipical			
AL NERVE	OR11.1 Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of			
INJURIES	peripheral nerve injuries in diseases like foot drop, wrist			
	drop, claw hand, palsies of Radial, Ulnar, Median, Lateral			
	Popliteal and Sciatic Nerves			
	a) Radial Nerve injury	\checkmark	✓	
	1. Describe the anatomy and course of Radial Nerve			
	2. Describe etiopathogenesis of radial nerve injury			
	3. Describe clinical feature of radial nerve injury			
	4. Enumerate investigation for radial nerve injury			
	5 December 41 - Andrew and a fine that a summer has been			
	5. Describe the management of radial nerve injury			
	b) Ulnar Nerve injury			
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OD12 1 Describe and discuss the clinical features			
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b. Congenital dislocation of Hip, Torticollis,			
c. congenital talipes equinovarus			
A). limbs and spine - Scoliosis and spinal bifida	 ✓ 	✓	
i)Scoliosis			
1. Describe etiopathogenesis of. Scoliosis			
2.Describe clinical feature of Scoliosis			
3.Enumerate investigation for Scoliosis			
4.Describe the management of Scoliosis			
ii) Spinal bifida			
1. Describe etiopathogenesis of Spinal bifida			
2.Describe clinical feature of Spinal bifida			
b. Congenital dislocation of Hip, Torticollis,			
1. Describe etiopathogenesis of Congenital dislocation of Hip			
2.Describe clinical feature of Congenital dislocation of Hip			
3.Enumerate investigation for Congenital dislocation of Hip			
4.Describe the management of Congenital dislocation of Hip			
ii) Torticollis			
1. Describe etiopathogenesis of Torticollis			
2.Describe clinical feature of Torticollis			
3.Enumerate investigation for Torticollis			
c. congenital talipes equinovarus			
1. Describe etiopathogenesis of congenital talipes equinovarus			
		 ✓ 	
simulated patients in the following:			
i. Above elbow plaster			
±			
*			
1			
±			
vi. Strapping for shoulder and clavicle trauma			
OD12.2 Doution of a second s	•	✓	
OR13.2 Participate as a member in team for Resuscitation of			
-			
Polytrauma victim by doing all of the following :			
Polytrauma victim by doing all of the following : (a) I.V. access central -peripheral			
Polytrauma victim by doing all of the following : (a) I.V. access central -peripheral (b) Bladder catheterization			
Polytrauma victim by doing all of the following : (a) I.V. access central -peripheral			
	 A). limbs and spine - Scoliosis and spinal bifida A). limbs and spine - Scoliosis and spinal bifida Coliosis 1. Describe etiopathogenesis of. Scoliosis 2.Describe clinical feature of Scoliosis 3.Enumerate investigation for Scoliosis 4.Describe etiopathogenesis of Spinal bifida 2.Describe etiopathogenesis of Spinal bifida 2.Describe etiopathogenesis of Spinal bifida 3.Enumerate investigation for Spinal bifida 3.Enumerate investigation for Spinal bifida 3.Enumerate investigation for Spinal bifida 4.Describe etiopathogenesis of Congenital dislocation of Hip 1. Describe the management of Congenital dislocation of Hip 2.Describe etiopathogenesis of Congenital dislocation of Hip 2.Describe etiopathogenesis of Congenital dislocation of Hip 3.Enumerate investigation for Congenital dislocation of Hip 3.Enumerate investigation for Congenital dislocation of Hip 3.Enumerate investigation for Congenital dislocation of Hip 4.Describe the management of Torticollis 3.Enumerate investigation for Torticollis 3.Enumerate investigation for Torticollis 3.Enumerate investigation for Torticollis 3.Enumerate investigation for congenital talipes equinovarus 2.Describe etiopathogenesis of congenital talipes equinovarus 3.Enumerate investigation for congenital talipes equinovarus 3.Enumerate investigation for congenital talipes equinovarus 4.Describe the management of congenital talip	investigations and principles of management of Congenital and acquired malformations and deformities of: a. limbs and spine - Scoliosis and spinal bifida b. Congenital dislocation of Hip, Torticollis, c. congenital talipes equinovarus A). limbs and spine - Scoliosis and spinal bifida i)Scoliosis 1. Describe etiopathogenesis of. Scoliosis 2. Describe etionical feature of Scoliosis 3. Enumerate investigation for Scoliosis 4. Describe the management of Scoliosis 4. Describe the management of Scoliosis 3. Enumerate investigation for Spinal bifida 1. Describe etiopathogenesis of Spinal bifida 2. Describe etionical feature of Spinal bifida 3. Enumerate investigation for Spinal bifida 3. Enumerate investigation for Spinal bifida 4. Describe the management of Spinal bifida 5. Congenital dislocation of Hip, Torticollis, i) Congenital dislocation of Hip 1. Describe etiopathogenesis of Congenital dislocation of Hip 2. Describe etiopathogenesis of Congenital dislocation of Hip 3. Enumerate investigation for Congenital dislocation of Hip 3. Enumerate investigation for Congenital dislocation of Hip 3. Describe etiopathogenesis of Torticollis 3. Describe etiopathogenesis of Torticollis 3. Describe clinical feature of Torticollis 3. Enumerate investigation for Torticollis 3. Enumerate investigation for Torticollis 3. Enumerate investigation for Torticollis 4. Describe etiopathogenesis of congenital talipes equinovarus 3. Describe clinical feature of congenital talipes equinovarus 4. Describe the management of congenital talipes equinovarus 3. Enumerate investigation for congenital talipes equinovarus 4. Describe the management of congenital talipes equinovarus 4. Describe the management o	investigations and principles of management of Congenital and acquired malformations and deformities of: a. limbs and spine - Scoliosis and spinal bifida b. Congenital dislocation of Hip, Torticollis, c. congenital talipes equinovarus A). limbs and spine - Scoliosis and spinal bifida i)Scoliosis 1. Describe etiopathogenesis of. Scoliosis 2.Describe clinical feature of Scoliosis 3.Enumerate investigation for Scoliosis 4.Describe the management of Scoliosis 4.Describe the management of Scoliosis ii) Spinal bifida 1. Describe etiopathogenesis of Spinal bifida 2.Describe etiopathogenesis of Spinal bifida 3.Enumerate investigation for Spinal bifida 4.Describe the management of Spinal bifida 4.Describe the management of Spinal bifida 4.Describe the management of Spinal bifida b. Congenital dislocation of Hip 2.Describe etiopathogenesis of Congenital dislocation of Hip 2.Describe etiopathogenesis of Congenital dislocation of Hip 3.Enumerate investigation for Torticollis 3.Enumerate investigation for Torticollis 3.Enumerate investigation for Torticollis 3.Enumerate investigation for Torticollis 3.Enumerate investigation for Congenital talipes equinovarus 3.Enumerate investigation for congenital talipes equinovarus 4.Describe clinical feature of congenital talipes equinovarus 4.Describe clinical feature of congenital talipes equinovarus 4.Describe the management of congenital talipes equinovarus 4.Describe clinical feature of congenital talipes equinovarus 4.Describe clinical feature si the following: 4.D

COUNSEL ING SKILLS	L OR14.1 Demonstrate the ability to counsel patients regarding prognosis in patients with various orthopaedic illnesses like a. fractures with disabilities b. fractures that require prolonged bed stay c. Bone tumours d. Congenital disabilities		
	OR14.2 Demonstrate the ability to counsel patients to obtain consent for various orthopaedic procedures like limp amputation, permanent fixations etc.	×	
	OR14.3 Demonstrate the ability to convince the patient for referral to a higher centre in various orthopaedic illnesses, based on the detection of warning signals and need for sophisticated management	~	

<u>Certifiable procedural skills</u>

The undergraduate learns

- 1. Application of basic splints and slings (I)
- 2. Basic fracture and dislocation management (O)
- 3. Compression bandage (I)

I- Independently performed on patients,

O- Observed in patients or on simulations,

List and number of sessions for skill certification:

Competency	Number required to certify	Hours (Each session=1 hr)
Application of basic splints and slings	3	1
Basic fracture and dislocation management (O)	3	1
Compression bandage (I)	3	1

Note: Learners must have completed the required certifiable competencies for that phase of trainingtobeeligibleforappearingatthefinaluniversity examination of that subject.

AETCOM

Attitude, Ethics and Communication (AETCOM) Competencies" for the Indian Medical Graduate 2018

Learning modules for Professional

Year IV Number of modules:1;

Number of

hours:4

One modules of the AETCOM as prescribed in the MCI AETCOM booklet will be conducted by department of Orthopaedics is given below

Module 4.9: Medical Negligence

Competencies addressed:

The student should be able to:	Level
1. Identify, discuss and defend medico-legal, socio-cultural, professional and ethical issues pertaining to medical negligence	КН
2. Identify, discuss and defend medico-legal, socio-cultural, professional and ethical issues pertaining to malpractice	КН

Bedside Clinics in Orthopaedics for MBBS Third Professional year (Part II)

Topics	Number	COMPETENCIES	Hours
RHEUMATOID ARTHRITIS AND ASSOCIATED INFLAMMATORY DISORDERS	OR5.1	Elicit, document, present a history and clinical findings in a patient presenting with multiple joint pain and swelling	
DEGENERATIVE DISORDERS	OR6.1	Elicit, document, present a history and clinical findings in a patient presenting with degenerative spine disorders	
METABOLIC BONE DISORDERS	OR7.1	Elicit, document, present a history and clinical findings in a patient presenting with metabolic bone disorders	
POLIOMYELITIS	OR8.1	Elicit, document, present a history and clinical findings in a patient presenting with post-polio residual paralysis	
BONE TUMOURS	OR10.1	Elicit, document, and present a history and clinical findings in a patient presenting with swelling arising from bone.	
PERIPHERAL NERVE INJURIES	OR11.1	Elicit, document, present a history and clinical findings in a patient presenting with peripheral nerve injuries	
CONGENITAL LESIONS	OR12.1	Elicit, document, present a history and clinical findings in a child presenting with deformity of foot	

Clinical postings and skill lab

1st week

		Method of Assessment
OPD	Observe and record new and follow up cases in OPD(2hrs) AETCOM (1hr)	OSCE
Post Admission day ward rounds	Follow up of assigned cases(1hr), Bedside clinics (History taking and physical examination of patient with multiple joint pain and swelling) SGD,DOAP(1hr), SDL, Discussion and closure (1hr)	OSCE
ОТ	Observe OT procedures and document in the logbook with Discussion(3hrs)	OSCE

Ward	Follow up of assigned cases(1hr), Bedside clinics (History taking and physical examination of patient with degenerative joint or spine) SGD, DOAP(1hr), SDL, Discussion and closure (1hr)	OSCE
Ward	Follow up of assigned cases(1hr), Bedside clinics (History taking and physical examination of patient presenting with clinical manifestation of rickets) SGD, DOAP(1hr), SDL, Discussion and closure (1hr)	OSCE
Skill lab	OR13.1 Participate in a team for below knee and above knee plaster application in patients and Demonstrate ability to perform in a mannequin or equivalent. Small group discussion (1 hr) DOAP(1hr), SDL, Discussion and closure (1hr)	OSCE with Simulation based assessment

2nd week

		Method of Assessment
OPD	Observe and record new and follow up cases in OPD(2hrs) AETCOM (1hr)	OSCE
	Follow up of assigned cases(1hr),	OSCE
Post Admission day ward rounds	Bedside clinics (History taking, physical examination of patient presenting with swelling arising from bone.)	OSCE
	SGD,DOAP(1hr), Discussion and closure (1hr)	
ОТ	Observe OT procedures and document in the logbook with Discussion(3hrs)	OSCE
	Follow up of assigned cases(1hr),	OSCE
Ward	Bedside clinics (History taking, physical examination of patient presenting with peripheral nerve injuries)	
	SGD,DOAP(1hr), SDL, Discussion and closure (1 hr)	
	Follow up of assigned cases(1hr),	OSCE
Ward	Bedside clinics (History taking, physical examination of child presenting with deformity of foot)	
	SGD,DOAP(1hr), SDL, Discussion and closure (1 hr)	

Skill lab	OR13.1 Participate in a team for Thomas splint application and strapping of shoulder and clavicle fracture in patients and Demonstrate ability to perform in a mannequin or equivalent.	OSCE with Simulation based assessment
	Small group discussion (1 hr), DOAP(1 hr), SDL, Discussion and closure (1 hr)	

Internal Assessment examination: -- (Theory 100 marks and Clinical 100

Marks)Theory: 100 marks

One internal assessments (IA) will be conducted at the end of module one and module two for 100 marks. Average marks of all notified theory internal assessment examinations (IAE) is taken into consideration for calculating the final internal assessment marks. Marks obtained by Periodic Assessment tests like Quiz, PCT, MCQs, will be added to theory internal marks.

Please note: Prior to submission to the University, the marks for each of the two internal examination theory assessments must be calculated out of 10 marks(1/4th of General Surgery marks), regardless of the maximum marks.

Type of Questions	Number of questions	Marks for each question	Total
Multiple Choice Questions	20	1	20
Long Essay Questions	2	10	20
Short Essay Questions	6	5	30
Reasoning Questions / Short Answer Questions	10	3	30
Total marks			100

Note:

- Case Based Questions: 20% of total marks.
- Two questions based on integration (AITo) in Internal Assessment Examination and one question from AETCOM.
- A student who has not taken minimum required number of tests for Internal Assessment, each in theory and practical will not be eligible for University examinations.
- The results of Internal Assessment should be displayed on notice board within 2 weeks of the test and an opportunity to be provided to the students to discuss the results and get feedback on making their performance better.
- Internal assessment marks will not be added to University examination marks and will reflect as a separate head of passing at the summative examination.

Practical/Viva: 100 Marks

Two practical assessments will be conducted along with the Theory Internal Assessments. Average marks of the two practical IAE will be taken. The marks obtained for Logbook, Record Book and Professionalismwill be added to practical IAE marks. Objective Structured Practical Examination will be a method of assessment in Internal Assessment and Summative examination

DEPARTMENT OF Otorhinolaryngology (ENT)

1. <u>CURRICULUM</u>

A. Competencies

The learner must demonstrate:

- Knowledge of the common otorhinolaryngology(ENT) emergencies and problems
- Ability to recognize, diagnose and manage common ENT emergencies and problems in primary care setting.
- Ability to perform simple ENT procedures as a applicable in a primary care setting
- Ability to recognize hearing impairment and refer to the appropriate hearing impairment rehabilitation programme.

B. Broad subject specific objectives:

Knowledge: At the end of the course, the student shall be able to :

- Describe the basic pathophysiology of common Ear, Nose & Throat (ENT) diseases and emergencies.
- Adopt the rational use of commonly used drugs keeping in mind their adverse reactions
- Suggest common investigative procedures and their interpretation

C. Skills:

At the end of the course the student shall be able to

- Examination and diagnose common ENT problems including pre malignant and malignant disorders of the head and neck
- Manage ENT problems at first level of care and be able to refer whenever necessary
- Assist/ Carry our minor ENT procedures like ear syringing, ear dressing, nasal packing
- Assist in certain procedures such as tracheostomy, endoscopy and removal of foreign bodies

D. Integration:

The teaching should be aligned and integrated horizontally and vertically in order to allow the learner to understand the structural basis of ENT problems, their management and correlation with function, rehabilitation and quality of life. The undergraduate training ENT will provide an integrated approach to wards other disciplines especially, neurosciences, Ophthalmology and general surgery.

2. <u>COURSE CONTENT TEACHING HOURS</u>

Teaching hours (Teaching learning methods)

***** Distribution of subject wise teaching hours for final MBBS Part-I

Lectures	SGL	SDL	Total weeks
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Otorhinolaryngology 15 20 10	10	45
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✤ Distribution of subject wise teaching hours for Final MBBS Part –II

Subject	Lectures	SGL	SDL	Total weeks
Otorhinolaryngology	15	25	15	55

Clinical postings schedules in weeks

Subjects	Period of training in weeks			
	II MBBS	Total weeks		
Otorhinolaryngology	00	03	04	07

Theory syllabus:

Final MBBS Part-I

Lectures -15

- 1. Anatomy of Ear
- 2. Physiology of the ear
- 3. Anatomy of Nose
- 4. Physiology of the nose
- 5. Anatomy of Throat
- 6. Physiology of the throat
- 7. Anatomy of Head & Neck
- 8. Physiology of Head and neck
- 9. Diseases of Nasal Septum
- 10. ALLERGIC Rhinitis
- 11. VMR
- 12. Epistaxis
- 13. Acute & chronic Pharyngitis
- 14. ACUTE AND CHRONIC Tonsillitis
- 15. Laryngeal Infections & Benign disorders of Larynx

FINAL MBBS PART-II

Lectures -15

- 1. Diseases of the External Ear
- 2. Noninfectious disorders of Middle Ear
- 3. Middle Ear -AOM
- 4. MIDDLE EAR-CSOM
- 5. INNER EAR-ACOUSTIC NEUROMA
- 6. TINNITUS
- 7. Vertigo & Balance Disorders
- 8. Facial Nerve Paralysis

- 9. Tumors of Nose & PNS
- 10. JNA
- 11. Head & Neck Space Infections
- 12. Malignancy of Larynx
- 13. Malignancy of Hypopharynx
- 14. Stridor
- 15. Management of Airway Emergencies

Small Group Teaching- 45 hours

Final MBBS Part-I-20 Hours

Proposed topic

S.No	Topics	No of	SG TL Methods
		Hours	
1.	Anatomy and physiology of ear	02	Seminars and model/ chart marking
2.	Otoscopic examination of the tympanic membrane	02	Simulation (DOAP)
3.	Otomicroscopic examination in a simulated environment	02	Simulation (DOAP)
4.	Tuning fork test	02	DOAP
5	Diagnostic nasal endoscopy & Anatomy of nose	03	Seminars, Video demonstration & Simulation
6	Smell and taste perception	02	Seminar. SGD chart making
7	Epistaxis and anterior nasal packing	03	Seminar, Video demonstration & simulation
8	Surgical procedures of the nose	02	Seminars & Video Demonstration
9	Anatomy and Physiology of throat	02	Seminar and Model /Chart making

S.No	Topics	No of Hours	SG TL Methods
1	Foreign body removal from ear/	02	Simulation (DOAP)
	Syringing wax from ear		
2	Assessment and rehabilitation of	02	Seminar and SGD (DOAP)
	hearing impaired NPPCD		
3	Interpretation of pure tone	04	SGD (Discussion of patient
	audiograms and impedance		reports)
	audiogram		
4	OAE, BERA	02	Simulation (BOAP)
5	Surgical procedure of the ear	04	Seminar & Video demonstration

6	Foreign bodies in the nose and upper respiratory tract and their management	03	Video demonstration and simulation
7	Surgical procedures of the throat	02	Seminar and video demonstration & simulation
8	Airway emergency and management of stridor (including tracheostomy)	03	Seminar and video Demonstration
9	Counsel and administer informed consent	01	Simulation –DOAP
10	Malignant and pre malignant ENT Disease	01	Seminar, SGD
11	The national programs for prevention of deafness cancer, noise and environment pollution	01	Seminar, Awareness activities

Final MBBS Part-II -25 Hours

Self-Directed Learnings- (25) -10 Hours

FINAL MBBS PART-I

Proposed topics

1) Discuss the prevalence of oral cancer and enumerate the common types of cancer

that can affect tissues of the oral cavity .

2) Discuss the role of etiological factors in the formation of precancerous

/cancerous lesions

- 3) Identify potential pre-cancerous /cancerous lesions
- 4) Describe the clinical features in a patient presenting with Diseases of salivary glands
- 5) Choose the correct investigations in a patient presenting with Diseases of salivary glands
- 6) Describe the principles of management of Diseases of salivary glands
- 7) Enumerate the Diseases of Oesophagus
- 8) Describe the clinical features in a patient presenting with Disease of Oesophagus
- Choose the correct investigations for a patient presenting with Disease of Oesophagus
- 10) Rhinosinusitis

FINAL MBBS PAR-II-15 Hours

- 1) Describe the clinical features of patient presenting with Meniere's Disease
- 2) Describe the investigations required for patient presenting with Meniere's Disease

- 3) Describe the principles of management of Meniere's Disease.
- 4) Describe the clinical features in a patient presenting with trauma to face
- 5) Choose the correct investigations in a patient presenting with trauma to face
- 6) Describe the principles of management of trauma to face
- 7) Describe the Clinical Feature, Investigations and Principles of Management of Trauma to the neck
- 8) Describe the clinical features in a patient presenting with Tumors of Nasopharynx .
- Choose the correct investigations in a patient presenting with Tumors of Nasopharynx
- 10) Describe the clinical features in a patient presenting with HIV manifestations of the ENT
- 11) Choose the correct investigations for a patient presenting with HIV manifestations of the ENT
- 12) Describe the principles of management of HIV manifestations of the ENT
- 13) Hearing Loss
- 14) Vertigo
- 15) Allergy

Competencies, Slos, Teaching Learning And Assessment Methods

Core competencies -color Blue Non - Core competencies - colorGreen

TOPIC: ANATOMY AND PHYSIOLOGY OF EAR, NOSE, THROAT, HEAD & NECK

Number of competencies:(02) certification:(NIL)

Number of procedures that require

EN1.1Describe the Anatomy & physiology of ear, nose, throat, head & neck Domain–K Level -KH Vertical Integration – Human Anatomy

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN1.1.1	Describe the Anatomy of ear	Lecture, Demonstration	Written, viva- voce
EN1.1.2	Describe the Anatomy of nose	Lecture, Demonstration	Written, viva- voce
EN1.1.3	Describe the Anatomy of throat	Lecture, Demonstration	Written, viva- voce
EN1.1.4	Describe the Anatomy of head & neck	Lecture, Demonstration	Written, viva- voce
EN1.1.5	Describe the Physiology of ear	Lecture, Demonstration	Written, viva- voce
EN1.1.6	Describe the Physiology of nose	Lecture, Demonstration	Written, viva- voce
EN1.1.7	Describe the Physiology of throat	Lecture, Demonstration	Written, viva- voce
EN1.1.8	Describe the Physiology of head & neck	Lecture, Demonstration	Written, viva- voce

EN1.2 Describe the patho-physiology of common diseases in ENT Domain–K Vertical Integration – Pathology Level –KH

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN1.2.1	Describe the patho-physiology of common diseases of the ear	Lecture, Demonstration, Bedside clinics	Written, viva- voce
EN1.2.2	Describe the patho-physiology of common diseases of the nose	Lecture, Demonstration, Bedside clinics	Written, viva- voce
EN1.2.3	Describe the patho-physiology of common diseases of the throat	Lecture, Demonstration, Bedside clinics	Written, viva- voce
EN1.2.4	Describe the patho-physiology of common diseases of the head & neck	Lecture, Demonstration, Bedside clinics	Written, viva- voce

TOPIC: CLINICAL SKILLS

Number of competencies: (15)

Number of procedures that require certification: (NIL)

Level - SH

To be taught and assessed in bed-side clinics and / or simulated environment.

EN2.1 Elicit document and present an appropriate history in a patient presenting with an ENT complaint

Domain-K/S/A/C

EN2.2 Demonstrate the correct use of a headlamp in the examination of the ear, nose and throat Domain–S Level –SH

EN2.3 Demonstrate the correct technique of examination of the ear including Otoscopy Domain–K/S/A Level – SH

EN2.4 Demonstrate the correct technique of performance and interpret tuning fork tests Domain–K/S/A Level – SH

EN2.5 Demonstrate the correct technique of examination of the nose & paranasal sinuses including the use of nasal speculum Domain–S Leve I–SH

EN2.6 Demonstrate the correct technique of examining the throat including the use of a tongue depressor Domain–S Level –SH EN2.8 Demonstrate the correct technique to perform and interpret pure tone audiogram & impedance audiogram Domain-K/S Level – SH EN2.9 Choose correctly and interpret radiological, microbiological &histological investigations relevant to the ENT disorders Domain-K/S Level – SH EN2.10 Identify and describe the use of y common instruments used in ENT surgery Domain-K Level –SH EN2.11 Describe and identify by clinical examination malignant & pre- malignant ENT diseases Domain-K/S Level -SH EN2.12 Counsel and administer informed consent to patients and their families in a simulated environment Domain-S/A/C Level - SH EN2.13 Identify, resuscitate and manage ENT emergencies in a simulated environment

(including tracheostomy, anterior nasal packing, removal of foreign bodies in ear, nose, throat and upper respiratory tract) Domain-K/S/A Level - SH

EN2.14 Demonstrate the correct technique to instilling topical medications in to the ear, nose and throat in a simulated environment Domain-K/S Level - SH

EN2.15 Describe the national programs for prevention of deafness, cancer, noise & environmental pollution Domain-K Level – KH

TOPIC: DIAGNOSTIC AND THERAPEUTIC PROCEDURES IN ENT

Number of competencies:(06) certification:(NIL)

Number of procedures that require

To be taught and assessed in bed-side clinics and / or simulated environment.

EN3.1 Observe and describe the indications for and steps involved in the performance of Otomicroscopic examination in a simulated environment Domain-S Level – KH

EN3.2 Observe and describe the indications for and steps involved in the performance of diagnostic nasal Endoscopy Domain-S Level - KH

EN2.7 Demonstrate the correct technique of examination of neck including elicitation of Domain-S Level –SH

laryngeal crepitus

EN3.3 Observe and describe the indications for and steps involved in the performance of Rigid/Flexible Laryngoscopy Domain–K Level – KH

EN3.4 Observe and describe the indications for and steps involved in the removal of foreign bodies from ear, nose & throat Domain–K Level – KH

EN3.5 Observe and describe the indications for and steps involved in the surgical procedures in ear, nose & throat Domain–K Level – KH

EN3.6 Observe and describe the indications for and steps involved in the skills of emergency procedures in ear, nose & throat

Domain–K

Level – KH

TOPIC: MANAGEMENT OF DISEASES OF EAR, NOSE & THROAT

Number of competencies:(53)

Number of procedures that require

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.1.1	List the causes of Otalgia	Lecture	Written, viva- voce
EN4.1.2	Elicit correct history in patients with Otalgia	Bedside clinic	Skill assessment
EN4.1.3	Document and present correct history in patients with Otalgia	Bedside clinic Skill	Assessment
EN4.1.4	Describe the clinical features in a patient presenting with Otalgia	Bedside clinic Skill	Assessment
EN4.1.5	Choose the correct investigations in a patient presenting with Otalgia	Bedside clinic Viva voce	
EN4.1.6	Describe the principles of management of Otalgia	Lecture ,Bedside clinic	Viva voce

certification:(NIL)

EN4.1 Elicit, document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Otalgia Domain–K/S

I - SH

EN4.2 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of diseases of the external Ear Domain–K/S

Level	- SH
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Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.2.1	List the diseases of external ear	Lecture	Written, viva- voce
EN4.2.2	Elicit correct history in patients presenting with disease of the external Ear	Bedside clinic	Skill assessment
EN4.2.3	Document and present correct history in patients with diseases of the external Ear	Bedside clinic	Skill assessment
EN4.2.4	Describe the clinical features in a patient presenting with diseases of the external Ear	Bedside clinic	Skill assessment
EN4.2.5	Choose the correct investigations in a patient presenting with diseases of the external Ear	Bedside clinic	Viva voce

EN4.2.6	Describe the principles of management of	Lecture ,Bedside	Viva voce
	diseases of the external Ear	clinic	

EN4.3Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of ASOM

U	onan-k/S		Level - SH
Number	Specific Learning objective	Teaching- Learning methods	Assessment methods
EN4.3.1	Elicit correct history in patients presenting with ASOM	Bedside clinic	Skill assessment
EN4.3.2	Document and present correct history in patients with ASOM	Bedside clinic	Skill assessment
EN4.3.3	Describe the clinical features in a patient presenting with ASOM	Bedside	Skill

		clinic	Assessment
EN4.3.4	Choose the correct investigations in a patient presenting with ASOM	Bedside clinic	Viva voce
EN4.3.5	Describe the principles of management of ASOM	Lecture ,Bedside clinic	Viva voce

EN4.4Demonstrate the correct technique to hold visualize and assess the mobility of the tympanic membrane and its mobility and interpret and diagrammatically represent the findings Domain–K/S/A Level - SH

Number	Specific Learning objective	Teaching- Learning methods	Assessment methods
EN4.4.1	Describe the normal appearance of Tympanic membrane	Lecture	Viva voce
EN4.4.2	Demonstrate the correct technique to hold & visualize the tympanic membrane	DOAP session	Skill assessment
EN4.4.3	Demonstrate the correct technique to assess the mobility of the tympanicmembrane	DOAP session	Skill assessment
EN4.4.4	Interpret and diagrammatically represent the findings of the tympanic membrane assessment	Bedside clinics	Viva voce

EN4.5 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of OME Domain–K/S Level

Level -SH

Number	Specific Learning objective	Teaching- Learning methods	Assessment methods
EN4.5.1	Elicit correct history in patients presenting with OME	Bedside clinics	Skill assessment
EN4.5.2	Document and present correct history in patients with OME	Bedside clinics	Skill assessment
EN4.5.3	Describe the clinical features in a patient presenting with OME	Lecture, Bedside clinics	Skill assessment
EN4.5.4	Choose the correct investigations in a patient presenting withO	Bedside clinics	Viva voce
EN4.5.5	Describe the principles of management of OME	Lecture	Written, viva voce

EN4.6 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Discharging ear Domain-K/S Level - SH

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.6.1	List the causes of Discharging ear	Lecture	Written, viva- voce
EN4.6.2	Elicit correct history in patients presenting with Discharging ear	Bedside clinic	Skill assessment
EN4.6.3	Document and present correct history in patients with Discharging ear	Bedside clinic	Skill assessment
EN4.6.4	Describe the clinical features in a patient presenting with Discharging ear	Bedside clinic	Skill assessment
EN4.6.5	Choose the correct investigations in a patient presenting with Discharging ear	Bedside clinic	Viva voce
EN4.6.6	Describe the principles of management of Discharging ear	Lecture ,Bedside clinic	Written, Viva voce

EN4.7 Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management ofmucosal type of CSOM Domain-K/S

Level - SH

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.7.1	Elicit correct history in patients presenting with mucosal type of CSOM	Bedside clinic	Skill assessment
EN4.7.2	Document and present correct history in patients with mucosal type of CSOM	Bedside clinic	Skill assessment
EN4.7.3	Describe the clinical features in a patient presenting with mucosal type of CSOM	Bedside clinic	Skill assessment
EN4.7.4	Choose the correct investigations in a patient presenting with mucosal type of CSOM	Bedside clinic	Viva voce, written
EN4.7.5	Describe the principles of management of mucosal type of CSOM	Lecture ,Bedside Clinic	Written, Viva Voce

EN4.8 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of CSOM Domain-K/S

Level -SH

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.8.1	Elicit correct history in patients presenting with squamosal type of CSOM	Bedside clinic	Skill assessment
EN4.8.2	Document and present correct history in patients with squamosal type of CSOM	Bedside clinic	Skill assessment
EN4.8.3	Describe the clinical features in a patient presenting with squamosal type of CSOM	Bedside clinic	Skill assessment
EN4.8.4	Choose the correct investigations in a patient presenting with squamosal type of CSOM	Bedside clinic	Viva voce, written
EN4.8.5	Describe the principles of management of squamosal type of CSOM	Lecture ,Bedside clinic	Written, Viva voce

EN4.9 Demonstrate the correct technique for syringing wax from the ear in a simulated environment Level - SH Domain-S

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.9.1	Describe the correct technique for syringing wax from the ear	DOAP	Skill assessment
EN4.9.2	Demonstrate the correct technique for syringing wax from the ear in a simulated environment	DOAP	Skill assessment

EN4.10 Observe and describe the indications for and steps involved in myringotomy and myringoplasty

Domain-	S	L	evel - KH
Number	Specific Learning objective	Teaching-Learning	Assessment
		methods	methods
EN4.10.1	Enumerate the indications for myringotomy	Lecture	Written, viva
			voce
EN4.10.2	Describe the steps of myringotomy	Lecture, video	Written, viva
		demonstration	Voce
EN4.10.3	Observe steps involved in myringotomy	Clinical (OT)	Written, viva
			voce
EN4.10.4	Enumerate the indications for myringoplasty	Lecture	Written, viva
			voce
EN4.10.5	Describe the steps of myringoplasty	Lecture, video	Written, viva
		demonstration	voce
EN4.10.6	Observe steps involved in myringoplasty	Clinical (OT)	Written, viva
			voce

EN4.11Enumerate the indications describe the steps and observe a Mastoidectomy Domain-K/S

Level -KH

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.11.1	Enumerate the indications for Mastoidectomy	Lecture	Written , viva voce
EN4.11.2	Describe the steps of Mastoidectomy	Lecture	Written , viva Voce
EN4.11.3	Observe steps involved in Mastoidectomy	Clinical (OT)	Written, viva voce

EN4.12 Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Hearing loss Domain–K/S

Level -SH

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods	
EN4.12.1	List the causes of Hearing loss	Lecture	Written, viva-	
			voce	
EN4.12.2	Elicit correct history in patients presenting	Bedside clinic	Skill	
	with Hearing loss		assessment	
EN4.12.3	Document and present correct history in	Bedside clinic	Skill	
	patients with Hearing loss		assessment	
EN4.12.4	Describe the clinical features in a patient	Bedside clinic	Skill	
	presenting with Hearing loss		assessment	
features, investigations and principles of management of Otosclerosis				
Domain-	Κ	Level -KH		

Number	Specific Learning objective	Teaching-Learning	Assessment
		methods	methods

EN4.13.1	Describe the clinical features of Otosclerosis	Lecture	Written
EN4.13.2	Describe the investigations required for	Bedside clinic	Viva voce
	patient with Otosclerosis		
EN4.13.3	Describe the principles of management of	Lecture ,Bedside	Written, Viva
	Otosclerosis	clinic	voce

 $\mathsf{EN4.14}$ Describe the clinical features, investigations and principles of management of Sudden Sensorineural Hearing Loss

Domain–K

	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.14.1	Describe the clinical features of Sudden	Lecture	Written
	Sensorineural Hearing Loss		
EN4.14.2	Describe the investigations required for patient presenting with Sudden Sensorineural Hearing Loss	Bedside clinic	Viva voce
EN4.14.3	Describe the principles of management of Sudden Sensorineural Hearing Loss	Lecture ,Bedside clinic	Written, Viva voce

EN4.15 Describe the clinical features, investigations and principles of management of Noise Induced HearingLoss Domain–K L

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.15.1	Describe the clinical features of Noise Induced Hearing Loss	Lecture	Written
EN4.15.2	Describe the investigations required for patient presenting with Noise Induced Hearing Loss	Bedside clinic	Viva voce
EN4.15.3	Describe the principles of management of	Lecture ,Bedside	Written, Viva
	Noise Induced Hearing Loss	clinic	voce

EN4.16 Observe and describe the indications for and steps involved in the performance of pure toneaudiometry Domain–S Level

Level - KH

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.16.1	Enumerate the indications for pure tone audiometry	Lecture	Written, viva voce
EN4.16.2	Describe the steps involved in the performance of pure tone audiometry	DOAP	viva voce
EN4.16.3	Observe the steps involved in the performance of pure tone audiometry	DOAP	viva voce

EN4.17 Enumerate the indications and interpret the results of an audiogram Domain–S

Level - SH

Number	Specific Learning objective	Teaching-Learning	Assessment
		methods	methods
EN4.17.1	Enumerate the indications for an audiogram	Bedside clinics, DOAP	Viva voce
EN4.17.2	Interpret the results of an audiogram	DOAP	Skill
			assessment

EN4.18 Describe the clinical features, investigations and principles of management of Facial Nerve palsy

Level -KH

Level -KH

Domain–K Level -ł		vel -KH	
Number	Specific Learning objective	Teaching-Learning	Assessment
		methods	methods
EN4.18.1	Describe the clinical features of Facial Nerve	Lecture	Written, viva
	palsy		voce
EN4.18.2	Describe the investigations required for	Bedside clinics	Written, viva
	patient presenting with Facial Nerve palsy		voce
EN4.18.3	Describe the principles of management of	Lecture ,Bedside	Written, Viva
	Facial Nerve palsy	clinic	voce

 $\mathsf{EN4.19}$ Describe the clinical features, investigations and principles of management of $\mathsf{Vertigo}$

Domain-K

Level -KH

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.19.1	Describe the clinical features of patient presenting with Vertigo	Lecture	Written, viva voce
EN4.19.2	Describe the investigations required for patient presenting with Vertigo	Bedside clinics	Written, viva voce
EN4.19.3	Describe the principles of management of Vertigo	Lecture ,Bedside clinic	Written, Viva voce

EN4.21 Describe the clinical features, investigations and principles of management of Tinnitus Domain–K

Level -KH

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.21.1	Describe the clinical features of patient presenting with Tinnitus	Lecture	Written, viva voce
EN4.21.2	Describe the investigations required for patient presenting with Tinnitus	Bedside clinics	Written, viva voce
EN4.21.3	Describe the principles of management of Tinnitus	Lecture ,Bedside clinic	Written, Viva voce

EN4.22 Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Nasal Obstruction

Domain-	K/S	Level - SH	
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.22.1	List the causes of Nasal obstruction	Lecture	Written, viva- voce
EN4.22.2	Elicit correct history in patients presenting with Nasal obstruction	Bedside clinic	Skill assessment
EN4.22.3	Document and present correct history in patients with Nasal obstruction	Bedside clinic	Skill assessment
EN4.22.4	Describe the clinical features in a patient presenting with Nasal obstruction	Bedside clinic	Skill assessment
EN4.22.5	Choose the correct investigations in a patient presenting with Nasal obstruction	Bedside clinic	Viva voce
EN4.22.6	Describe the principles of management of Nasal obstruction	Lecture ,Bedside clinic	Written, Viva voce

 $\mathsf{EN4.23}$ Describe the clinical features, investigations and principles of management of DNS

Domain-K

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.23.1	Describe the clinical features of patient presenting with DNS	Lecture	Written, viva voce
EN4.23.2	Describe the investigations required for patient presenting with DNS	Bedside clinics	Written, viva voce
EN4.23.3	Describe the principles of management of DNS	Lecture ,Bedside clinic	Written, Viva voce

EN4.24 Enumerate the indications observe and describe the steps in a septoplasty

Domain-S		Level -KH	
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.24.1	Enumerate the indications for septoplasty	Lecture	Written , viva voce
EN4.24.2	Describe the steps of septoplasty	DOAP - video demonstration	Written , viva voce
EN4.24.3	Observe steps involved in septoplasty	DOAP - Clinical (OT)	Written , viva voce

EN4.25 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Nasal Polyps

Domain–K/S		Level -SH	
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.25.1	Elicit correct history in patients presenting with Nasal polyps	Bedside clinic	Skill Assessment
EN4.25.2	Document and present correct history in patients with Nasal polyps	Bedside clinic	Skill assessment
EN4.25.3	Describe the clinical features in a patient presenting with Nasal polyps	Bedside clinic	Skill assessment
EN4.25.4	Choose the correct investigations in a patient presenting with Nasal polyps	Bedside clinic	Viva voce
EN4.25.5	Describe the principles of management of Nasalpolyps	Lecture ,Bedside clinic	Written, Viva voce

EN4.26 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Adenoids

Domain-	K/S	Level - SH	
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.26.1	Elicit correct history in patients presenting with Nasal polyps	Bedside clinic	Skill assessment
EN4.26.2	Document and present correct history in patients with Nasal polyps	Bedside clinic	Skill assessment
EN4.26.3	Describe the clinical features in a patient presenting with Nasal polyps	Bedside clinic	Skill assessment
EN4.26.4	Choose the correct investigations in a patient presenting with Nasal polyps	Lecture, DOAP	Viva voce
EN4.26.5	Describe the principles of management of	Lecture ,Bedside	Written, Viva
	Nasalpolyps	Clinic	Voce

EN4.27 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Allergic Rhinitis Domain–K/S Level

Level - SH

16.			
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.27.1	Elicit correct history in patients presenting with Allergic Rhinitis	Bedside clinic	Skill assessment
EN4.27.2	Document and present correct history in patients with Allergic Rhinitis	Bedside clinic	Skill assessment
EN4.27.3	Describe the clinical features in a patient presenting with Allergic Rhinitis	Bedside clinic	Skill assessment
EN4.27.4	Choose the correct investigations in a patient presenting with Allergic Rhinitis	Lecture, DOAP	Viva voce
EN4.27.5	Describe the principles of management of Allergic Rhinitis	Lecture ,Bedside clinic	Written, Viva voce

EN4.28 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Vasomotor Rhinitis

Domain–K/S		L	₋evel - SH
Number	Specific Learning objective	Teaching-Learning	Assessment
		methods	methods
EN4.28.1	Elicit correct history in patients presenting	Bedside clinic	Skill
	with Vasomotor Rhinitis		assessment
EN4.28.2	Document and present correct history in	Bedside clinic	Skill
	patients with Vasomotor Rhinitis		assessment
EN4.28.3	Describe the clinical features in a patient	Bedside clinic	Skill
	presenting with Vasomotor Rhinitis		assessment
EN4.28.4	Choose the correct investigations in a patient	Lecture, DOAP	Viva voce
	presenting with Vasomotor Rhinitis		

the correct investigations and describe the principles of management of Acute & Chronic Rhinitis

Domain-K/S

Level - SH

Number	Specific Learning objective	Teaching-	Assessment
		Learning methods	methods
EN4.29.1	Elicit correct history in patients presenting with	Bedside clinic	Skill
	Acute Rhinitis		assessment
EN4.29.2	Document and present correct history in	Bedside clinic	Skill
	patients with Acute Rhinitis		assessment
EN4.29.3	Describe the clinical features in a patient	Bedside clinic	Skill
	presenting with Acute Rhinitis		Assessment
EN4.29.4	Choose the correct investigations in a patient	Lecture, DOAP	Viva voce
	presenting with Acute Rhinitis		
EN4.29.5	Describe the principles of management of Acute	Lecture	Written, Viva
	Rhinitis	,Bedside clinic	voce
EN4.29.6	Elicit correct history in patients presenting with	Bedside clinic	Skill
	Chronic Rhinitis		assessment
EN4.29.7	Document and present correct history in	Bedside clinic	Skill
	patients with Chronic Rhinitis		assessment
EN4.29.8	Describe the clinical features in a patient	Bedside clinic	Skill
	presenting with Chronic Rhinitis		assessment
EN4.29.9	Choose the correct investigations in a patient	Lecture, DOAP	Viva voce
	presenting with Chronic Rhinitis		
EN4.29.10	Describe the principles of management of Lec	ture Written,Vi	Va
		,Bedside	
	Chronic Rhinitis	Clinic	Voce

EN4.30 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Epistaxis

Domain–K/S Le		Level - SH	
Number	Specific Learning objective	Teaching-Learning	Assessment
		methods	methods
EN4.30.1	Enumerate the causes of Epistaxis	Lecture	Written, Viva
			voce

EN4.30.2	Elicit correct history in patients presenting with Epistaxis	Bedside clinic	Skill assessment
EN4.30.3	Document and present correct history in patients with Epistaxis	Bedside clinic	Skill assessment
EN4.30.4	Describe the clinical features in a patient presenting with Epistaxis	Bedside clinic	Skill assessment
EN4.30.5	Choose the correct investigations in a patient presenting with Epistaxis	Lecture, DOAP	Viva voce
EN4.30.6	Describe the principles of management of Epistaxis	Lecture ,Bedside Clinic	Written, Viva Voce

 $\mathsf{EN4.31Describe}$ the clinical features, investigations and principles of management of trauma to the Face&Neck

Domain-	K/S	L	evel - KH
Number	Specific Learning objective	Teaching-Learning	Assessment
		methods	methods
EN4.31.1		Lecture	Written, Viva
	presenting with trauma to face		voce
EN4.31.2	Choose the correct investigations in a patient	Lecture, DOAP	Viva voce
	presenting with trauma to face		
EN4.31.3	Describe the principles of management of	Lecture ,Bedside	Written, Viva
	trauma to face	clinic	voce
EN4.31.4	Describe the clinical features in a patient	Lecture	Written, Viva
	presenting with trauma to neck		voce
EN4.31.5	Choose the correct investigations in a patient	Lecture, DOAP	Viva voce
	presenting with trauma to neck		
EN4.31.6	Describe the principles of management of	Lecture ,Bedside	Written, Viva
	trauma to neck	clinic	voce

EN4.32 Describe the clinical features, investigations and principles of management of nasopharyngeal Angiofibroma Domain–K

Level –KH

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.32.1	Describe the clinical features in a patient presenting with nasopharyngeal Angiofibroma	Lecture	Written, Viva voce
EN4.32.2	Choose the correct investigations in a patient presenting with nasopharyngeal Angiofibroma	Lecture, DOAP	Viva voce
EN4.32.3	Describe the principles of management of nasopharyngeal Angiofibroma	Lecture ,Bedside clinic	Written, Viva voce

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.33.1	Elicit correct history in patients presenting with Acute Sinusitis	Bedside clinic	Skill assessment
EN4.33.2	Document and present correct history in patients with Acute Sinusitis	Bedside clinic	Skill Assessment
EN4.33.3	Describe the clinical features in a patient presenting with Acute Sinusitis	Bedside clinic	Skill assessment
EN4.33.4	Choose the correct investigations in a patient presenting with Acute Sinusitis	Lecture, DOAP	Viva voce
EN4.33.5	Describe the principles of management of Acute Sinusitis	Lecture ,Bedside clinic	Written, Viva voce
EN4.33.6	Elicit correct history in patients presenting with Chronic Sinusitis	Bedside clinic	Skill assessment
EN4.33.7	Document and present correct history in patients with Chronic Sinusitis	Bedside clinic	Skill assessment
EN4.33.8	Describe the clinical features in a patient presenting with Chronic Sinusitis	Bedside clinic	Skill assessment

EN4.33.9	Choose the correct investigations in a patient	Lecture, DOAP	Viva voce
E	presenting with Chronic Sinusitis		
₽ N4.33.10	Describe the principles of management of	Lecture ,Bedside	Written, Viva
4	Chronic Sinusitis	clinic	voce

33 Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Acute & ChronicSinusitis Level - SH

Domain-K/S

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.35.1	Describe the clinical features in a patient	Lecture	Written, Viva
	presenting with Tumors of Nasopharynx		voce
EN4.35.2	Choose the correct investigations in a patient presenting with Tumors of Nasopharynx	Lecture, DOAP	Viva voce
EN4.35.3	Describe the principles of management of	Lecture ,Bedside	Written, Viva
	TumorsofNasopharynx	clinic	voce

EN4.34 Describe the clinical features, investigations and principles of management of Tumors of Maxilla

Domain-K

Level -KH

EN4.35 Describe the clinical features, investigations and principles of management of Tumors of Nasopaynx

Describe the .36 Describe the clinical features, investigations and principles of management of diseases of the Salivary glands

Domain–K		evel -KH	
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.36.1	Describe the clinical features in a patient	Lecture	Written, Viva
	presenting with Diseases of salivary glands		voce
EN4.36.2	Choose the correct investigations in a patient presenting with Diseases of salivary glands	Lecture, DOAP	Viva voce
EN4.36.3	Describe the principles of management of	Lecture ,Bedside	Written, Viva
	Diseases of salivary glands	clinic	voce

EN4.37 Describe the clinical features, investigations and principles of management of Ludwig's angina Domain-K

Level -KH

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.37.1	Describe the clinical features in a patient presenting with Ludwig's angina	Lecture	Written, Viva voce
EN4.37.2	Choose the correct investigations for a patient presenting with Ludwig's angina	Lecture, DOAP	Viva voce

EN4.37.3 Describe the principles of management of	Lecture ,Bedside	Written, Viva
Ludwig's angina	clinic	voce

EN4.38 Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of type of dysphagia Domain–K/S Level - SH

Number Specific Learning objective Teaching-Learning Assessment methods methods EN4.38.1 Lecture Written, Viva Enumerate the causes of Dysphagia voce EN4.38.2 Elicit correct history in patients presenting Bedside clinic Skill with Dysphagia Assessment Document and present correct history in EN4.38.3 Bedside clinic Skill patients with Dysphagia assessment Describe the clinical features in a patient EN4.38.4 Bedside clinic Skill presenting with Dysphagia assessment Choose the correct investigations for a EN4.38.5 Lecture, DOAP Viva voce patient presenting with Dysphagia EN4.38.6 Describe the principles of management of Lecture ,Bedside Written, Viva Dysphagia clinic voce

EN4.39 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Acute & Chronic Tonsillitis

Domain–k	(/S	l	_evel - SH
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.39.1	Elicit correct history in patients presenting with AcuteTonsillitis	Bedside clinic	Skill assessment
EN4.39.2	Document and present correct history in patients with Acute Tonsillitis	Bedside clinic	Skill assessment
EN4.39.3	Describe the clinical features in a patient presenting with Acute Tonsillitis	Bedside clinic	Skill Assessment
EN4.39.4	Choose the correct investigations in a patient presenting with Acute Tonsillitis	Lecture, DOAP	Viva voce
EN4.39.5	Describe the principles of management of Acute Tonsillitis	Lecture ,Bedside clinic	Written, Viva voce
EN4.39.6	Elicit correct history in patients presenting with Chronic Tonsillitis	Bedside clinic	Skill assessment
EN4.39.7	Document and present correct history in patients with Chronic Tonsillitis	Bedside clinic	Skill assessment
EN4.39.8	Describe the clinical features in a patient presenting with Chronic Tonsillitis	Bedside clinic	Skill assessment
EN4.39.9	Choose the correct investigations in a patient presenting with Chronic Tonsillitis	Lecture, DOAP	Viva voce
EN4.39.10	Describe the principles of management of Chronic Tonsillitis	Lecture ,Bedside clinic	Written, Viva voce

 $\mathsf{EN4.40}$ Observe and describe the indications for and steps involved in a tonsillectomy / adenoidectomy

Domain-	-S	Lev	/el –KH
Number	Specific Learning objective	Teaching-Learning	Assessment
		methods	methods
EN4.40.1	Enumerate the indications for tonsillectomy	Lecture, Bedside	Written, Viva
		clinic	voce
EN4.40.2	Observe the steps involved in a tonsillectomy	Video demonstration,	Viva voce
		DOAP (OT)	
EN4.40.3	Describe the steps involved in a tonsillectomy	DOAP (OT), Bedside	Viva voce
		clinic	
EN4.40.4	Enumerate the indications for adenoidectomy	Lecture, Bedside	Written, Viva
		clinic	voce
EN4.40.5	Observe the steps involved in an	Video demonstration,	Viva voce
	adenoidectomy	DOAP (OT)	
EN4.40.6	Describe the steps involved in an	DOAP (OT), Bedside	Viva voce
	adenoidectomy	clinic	

EN4.41 Describe the clinical features, investigations and principles of management of Acute & chronic abscesses in relation to Pharynx

Domain–K/S Leve		vel - KH	
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.41.1	List the abscesses in relation to pharynx	Lecture, Bedside clinic	Written, Viva voce
EN4.41.2	Describe the clinical features of acute abscesses in relation to pharynx	Bedside clinic	Viva voce
EN4.41.3	Choose the correct investigations in a patient presenting with an acute abscess related to the pharynx	DOAP, Bedside clinic	Viva voce
EN4.41.4	Describe the principles of management of a patient presenting with an acute abscess related to the pharynx	Lecture, DOAP	Viva voce
EN4.41.5	Describe the clinical features of chronic abscesses in relation to pharynx	Bedside clinic	Viva voce
EN4.41.6	Choose the correct investigations in a patient presenting with chronic abscess related to the pharynx	DOAP, Bedside clinic	Viva voce
EN4.41.7	Describe the principles of management of a patient presenting with chronic abscess related to the pharynx	Lecture, DOAP	Viva voce

EN4.42 Elicit, document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of hoarseness of voice

Domain-	-K/S	L	evel – SH
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.42.1	Enumerate the causes of hoarseness of voice	Lecture	Written, Viva voce
EN4.42.2	Elicit correct history in patients presenting with hoarseness of voice	Bedside clinic	Skill Assessment
EN4.42.3	Document and present correct history in patients with hoarseness of voice	Bedside clinic	Skill assessment
EN4.42.4	Describe the clinical features in a patient presenting with hoarseness of voice	Bedside clinic	Skill assessment
EN4.42.5	Choose the correct investigations for a patient presenting with hoarseness of voice	Lecture, DOAP	Viva voce
EN4.42.6	Describe the principles of management of a patient with hoarseness of voice	Lecture ,Bedside clinic	Written, Viva voce

EN4.43 Describe the clinical features, investigations and principles of management of Acute & Chronic Laryngitis

Domain-K

Level -KH

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.43.1	Describe the clinical features in a patient presenting with Acute Laryngitis	Lecture ,Bedside clinic	Written, Viva voce
EN4.43.2	presenting with Acute Laryngitis	Lecture, DOAP	Viva voce
EN4.43.3	Describe the principles of management of Acute Laryngitis	Lecture ,Bedside clinic	Written, Viva voce
EN4.43.4	Describe the clinical features in a patient presenting with Chronic Laryngitis	Lecture ,Bedside clinic	Written, Viva voce
EN4.43.5	Choose the correct investigations in a patient presenting with Chronic Laryngitis	Lecture, DOAP	Viva voce
EN4.43.6	Describe the principles of management of Chronic Laryngitis	Lecture ,Bedside clinic	Written, Viva voce

EN4.44 Describe the clinical features, investigations and principles of management of benign lesions of the vocal cord

Domain-	isions of the vocal cord	١٥	vel –KH
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.44.1	Enumerate the benign lesions of the vocal cord	Lecture ,Bedside Clinic	Written, Viva Voce
EN4.44.2	Describe the clinical features in a patient presenting with benign lesions of the vocal cord	Lecture ,Bedside clinic	Written, Viva voce
EN4.44.3	Choose the correct investigations for a patient presenting with benign lesions of the vocal cord	Lecture, DOAP	Viva voce
EN4.44.4	Describe the principles of management of benign lesions of the vocal cord	Lecture ,Bedside clinic	Written, Viva voce

EN4.45 Describe the clinical features, investigations and principles of management of Vocal cord palsy

Domain-		L	evel –KH
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.45.1	Enumerate the causes of Vocal cord palsy	Lecture ,Bedside clinic	Written, Viva voce
EN4.45.2	Describe the clinical features in a patient presenting with Vocal cord palsy	Lecture ,Bedside clinic	Written, Viva voce
EN4.45.3	Choose the correct investigations for a patient presenting with Vocal cord palsy	Lecture, DOAP	Viva voce
EN4.45.4	Describe the principles of management of Vocal cord palsy	Lecture ,Bedside clinic	Written, Viva voce

EN4.46 Describe the clinical features, investigations and principles of management of Malignancy of the Larynx & Hypopharynx Domain–K Le

Level	–KH
	1 1 1

17 <u>.</u>			
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.46.1	Describe the clinical features in a patient presenting with Malignancy of the Larynx	Lecture ,Bedside clinic	Written, Viva voce
EN4.46.2	Choose the correct investigations for a patient presenting with Malignancy of the Larynx	Lecture, DOAP	Viva voce
EN4.46.3	Malignancy of the Larynx	Lecture ,Bedside clinic	Written, Viva voce
EN4.46.4	Describe the clinical features in a patient presenting with Malignancy of the Hypopharynx	Lecture ,Bedside clinic	Written, Viva voce

EN4.46.4	Choose the correct investigations for a patient presenting with Malignancy of the Hypopharynx	Lecture, DOAP	Viva voce
EN4.46.4	Describe the principles of management of	Lecture ,Bedside	Written, Viva
	Malignancy of the Hypopharynx	clinic	voce

EN4.47 Describe the clinical features, investigations and principles of

manager	nagement of Stridor Domain–K Level –KH		evel –KH
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.47.1	Enumerate the causes of Stridor	Lecture ,Bedside Clinic	Written, Viva Voce
EN4.47.2	Describe the clinical features in a patient presenting with Stridor	Lecture ,Bedside clinic	Written, Viva voce
EN4.47.3	Choose the correct investigations for a patient presenting with Stridor	Lecture, DOAP	Viva voce
EN4.47.4	Describe the principles of management of Stridor	Lecture ,Bedside clinic	Written, Viva voce

EN4.48 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Airway Emergencies

Domai	n–S	Lev	/el - SH
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.48.1	Enumerate the causes of Airway emergencies	Bedside clinic, DOAPVi	va voce
EN4.48.2	Elicit correct history in patients presenting with Airway emergencies	Bedside clinic	Skill Assessment
EN4.48.3	patients with Airway emergencies	Bedside clinic	Skill assessment
EN4.48.4	presenting with Airway emergencies	Bedside clinic	Skill assessment
EN4.48.5	patient presenting with Airway emergencies	DOAP	Viva voce
EN4.48.6	Describe the principles of management of Airway emergencies	Bedside clinic	Viva voce

EN4.49 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of foreign bodies in the air & food passages Domain-S

Level - SH

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.49.1	Elicit correct history in patients presenting with foreign bodies in the air passages	Bedside clinic	Skill assessment
EN4.49.2	Document and present correct history in patients presenting with foreign bodies in the air passages	Bedside clinic	Skill assessment
EN4.49.3	Describe the clinical features in a patient presenting with foreign bodies in the air passages	Bedside clinic	Skill assessment
EN4.49.4	Choose the correct investigations in a patient presenting with foreign bodies in the air passages	DOAP	Viva voce
EN4.49.5	Describe the principles of management of foreign bodies in the air passages	Bedside clinic	Viva voce
EN4.49.6	Elicit correct history in patients presenting with foreign bodies in the food passages	Bedside clinic	Skill assessment

EN4.49.7	Document and present correct history in patients presenting with foreign bodies in the food passages	Bedside clinic	Skill assessment
EN4.49.8	Describe the clinical features in a patient presenting with foreign bodies in the food passages	Bedside clinic	Skill assessment
EN4.49.9	Choose the correct investigations in a patient presenting with foreign bodies in the food passages	DOAP	Viva voce
EN4.49.10	Describe the principles of management of foreign bodies in the food passages	Bedside clinic	Viva voce

EN4.50 Observe and describe the indications for and steps involved in tracheostomy Domain-S

	tomy Domain–S	Level -KH		
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods	
EN4.50.1	Enumerate the indications for Tracheostomy	Bedside clinics	Viva voce	
EN4.50.3	Observe steps involved in Tracheostomy	DOAP - Clinical (OT), video demonstration	Viva voce	
EN4.50.3	Describe the steps of Tracheostomy	DOAP - video demonstration	Viva voce	

EN4.51 Observe and describe the care of the patient with a tracheostomy

	Domain–S Level –KH					
Number	Specific Learning objective	Teaching-Learning	Assessment			
		methods	methods			
EN4.51.1	Observe steps involved in care of the patient	DOAP - Clinical (OT),	Viva voce			
	with a tracheostomy	video demonstration				
EN4.51.2	Describe the steps involved in care of the	DOAP - video	Viva voce			
	patient with a tracheostomy	demonstration				

EN4.52 Describe the Clinical features, Investigations and principles of management of diseases of Oesophagus

Domain-	К	L	Level –KH	
Number	Specific Learning objective	Teaching-Learning methods	Assessment methods	
EN4.52.1	Enumerate the Diseases of Oesophagus	Lecture ,Bedside clinic	Written, Viva voce	
EN4.52.2	Describe the clinical features in a patient presenting with Disease of Oesophagus	Lecture ,Bedside clinic	Written, Viva voce	
EN4.52.3	patient presenting with Disease of Oesophagus	Lecture, DOAP	Viva voce	
EN4.52.4	Describe the principles of management of Diseases of Oesophagus	Lecture ,Bedside clinic	Written, Viva voce	

EN4.53 Describe the clinical features, investigations and principles of management of HIV manifestations of the ENT (vertical integration- General Medicine) Domain-K Level --KH

Number	Specific Learning objective	Teaching-Learning methods	Assessment methods
EN4.53.1	Enumerate the HIV manifestations of the ENTLe	cture ,Bedside clinic	Written, Viva voce
EN4.53.2	Describe the clinical features in a patient presenting with HIV manifestations of the ENT	Lecture ,Bedside clinic	Written, Viva voce
EN4.53.3	Choose the correct investigations for a patient presenting with HIV manifestations of the ENT	Lecture, DOAP	Viva voce

EN4.53.4	Describe the principles of management of	Lecture ,Bedside	Written, Viva
	HIV manifestations of the ENT	clinic	voce

Practical syllabus:

History taking

General Physical examination

Examination of Ear, Nose, Throat (Local examination)

Clinical cases of ENT

Nose :

- > DNS
- > Sinusitis
- Polyps : AC polyp , Ethmoidal polyp
- Allergic Rhinitis

Throat:

- Chronic/ Acute Tonsillitis
- > Adenoiditis
- Adenotonsillitis

Ear:

- CSOM- Tubotympanic type
- CSOM- Aticoantral type

X-rays

Instruments

Audiology

Osteology

3. SKILL CERTIFICATION

S.N O	Competenc y	Date of completio n	Attemp t at activity F/R/Re*	Rating B/M/E* *	Decision of faculty C/R/Re** *	Signatur e of faculty & Date	Feedbac k received
1.	Anterior nasal packing (D)						
2.	Otoscopy (I)						

*First or only (F), Repeat (R), Remedial (Re)

**Below (B) expectations, Meets(M) expectations, exceeds (E) expectations, OR Numerical score

***Completed (C), Repeat (R), Remedial (Re)

4. **INTEGRATION:**

SI. No	Integrated Teaching	Integrated with (Department)
1	Describe the (1) morphology, relations, blood supply and applied anatomy of palatine tonsil and (2) composition of soft palate	Human Anatomy
2	Describe the components and functions of waldeyer's lymphatic ring	Human Anatomy
3	Describe the boundaries and clinical significance of pyriform fossaHuma	Human Anatomy
4	Describe the anatomical basis of tonsilitis, tonsillectomy, adenoids and peri-tonsillar abscess	Human Anatomy
5	Describe the clinical significance of Killian'sdehiscence	Human Anatomy
6	Describe & demonstrate feature sofnasalseptum, lateralwall of nose, their blood supply and nerve supply	Human Anatomy
7	Describe location and functional anatomy of paranasalsinuses	Human Anatomy
8	Describe anatomical basis of sinusitis & maxillary sinus tumours	Human Anatomy
9	Describe the morphology, identify structure of the wall, nerve supply, bloodsupply and actions of intrinsicand extrinsic muscles of the larynx	Human Anatomy
10	Describe the anatomical aspects of laryngitis	Human Anatomy
11	Describe anatomical basis of recurrent laryngeal nerveinjury	Human Anatomy
12	Explain the anatomical basis of hypoglossal nerve palsy	Human Anatomy
13	Describe & identify the parts, blood supply and nerve supply of external ear	Human Anatomy
14	Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube	Human Anatomy
15	Describe the features of internal ear	Human Anatomy
16	Explain anatomical basis of otitis externa and otitis media Human Anatomy	Human Anatomy
17	Explain anatomical basis of myringotomy Human Anatomy	Human Anatomy
18	Describe and discuss perception of smell and taste sensation	Physiology
19	Describe and discuss functional anatomy of ear and auditory pathways & physiology of hearing	Physiology
20	Describe and discuss pathophysiology of deafness. Describe hearing Tests	Physiology
21	Demonstrate (i) hearing (ii) testing for smell and (iii) taste sensation in volunteer/ simulated environment	Physiology
22	Describe the health hazards of air, water, noise, radiation and pollution.	Community Medici

23	Counsel patients to risks of oral cancer with respect to tobacco, smoking, alcohol and other causative factors	Dentistry
24	Describe and discuss the etiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of hearing loss in theelderly	General Medicine
25	Discuss the risk factors, clinical features, Diagnosis and management of Kerosene ingestion	Paediatrics
26	Discuss the etio-pathogenesis, clinical features and management of Naso pharyngitis	Paediatrics
27	Discuss the etio-pathogenesis of PharyngoTonsillitis Paediatrics	
28	Discuss the clinical features and management of Pharyngo Tonsillitis	Paediatrics
29	Discuss the etio-pathogenesis, clinical features and management of Acute Otitis Media (AOM)	Paediatrics
30	Discuss the etio-pathogenesis, clinical features and management of Epiglottitis	Paediatrics
31	Discuss the etio-pathogenesis, clinical features and management of Acute laryngo-trachea-bronchitis	Paediatrics
32	Discuss the etiology, clinical features and management of Stridor in Children	Paediatrics
33	Discuss the types, clinical presentation, and management offoreign body aspiration in infants and children	Paediatrics
34	Elicit, document and present age appropriate history of a child with upper respiratory problem including Stridor	Paediatrics
35	Perform otoscopic examination of the ear Paediatrics	
36	Perform throat examination using tongue depressor Paediatrics	
37	Perform examination of the nose Paediatrics	
38	Interpret X-ray of the paranasal sinuses and mastoid; and /or use written report in case of management. Interpret CXR in foreign body aspiration and lower respiratory tract infection, understand the significance of thymic shadow in pediatric chest X-rays	Paediatrics
39	Describe the etio-pathogenesis, management and prevention of Allergic Rhinitis in Children	Paediatrics
40	Describe the etio-pathogenesis, clinical features and management of Atopic dermatitis in children	Paediatrics
41	Describe etiopathogenesis of oral cancer, symptoms and signs of pharyngeal cancer. Enumerate the appropriate investigations and discuss the principles of treatment.	General Surgery

5. <u>AETCOM COMPETENCIES</u>

ENT	3.3A	Demonstrate ability to communicate to patients in a patient, respectful,
		non threatening, non judgmental and empathetic manner
	3.3B	Identify, discuss and defend, medico –legal, socio cultural and ethical
		issue as they pertain to consent for surgical procedures.

ATTEDANCE :

The learner must have 75% attendance in theory and 80% in Practical in each phase of instruction in that subject.

6.MARKS DISTRIBUTION OF THEORY, PRACTICAL, ECE, SGL, SDL ETC

Theory		Clinical examination
100		1. 1 Long Case = 25 M
Long essay	2X15M=30M	2. 2 Short cases $-(2 \times 15) = 30 \text{ M}$
Short essay	10X5M=50M	3. 5 Stations of OSCE – (2 sets of 5 stations
MCQ's	20X1M=20M	with one blank station) $-(5 \times 5) = 25 \text{ M}$ 4. Viva = 10 M 5. Drugs & Instruments = 10 M
		TOTAL-100 MARKS

6. EXAMINATION

a. Assessment method of theory

1st PCT practical/First ward leaving examination-100
2nd PCT practical / Second ward leaving examination-100
Prelims practical-100
Home assignment -10
Continuous class test –LMS-25
Seminar -10
Museum study -10
Library assignement -10
Attendance -10
Total -375

b. Assessment method of practical

1st PCT practical/First ward leaving examination-100 2nd PCT practical / Second ward leaving examination-100 Prelims practical-100 Certificate skill based competencies-100 AETCOM-30 SVL lab activity-50 Research-20 Journal-40 Attendance-10 Total-500

7. <u>RECOMMENDED BOOKS</u>

- a. Text Book Of Ent, Pl Dhingra
- b. Text Book Of Ent, Mohan Bansal

- c. Text Book Of Ent, Bhargava
- d. Text book of Otorhinolaryngology Head and Neck Surgery Author-Suresh Pillai Kailesh pujary

8. <u>REFERENCES BOOKS</u>

- a. Text book of SCOTT brown's Otorhinolaryngology Head & Neck Surgery
- b. Text book of Cummings Otorhinolaryngology Head & Neck Surgery

9. DIVISION OF SYLLABUS ALONG WITH MARKS FOR MBBS

We have only one paper. Blue Print

Sl.No	Торіс	Long essay	Short notes	MCQs	Maximum marks	Minimum Marks
1.	EAR					
	Anatomy and physiology of ear		✓	✓	10	03
	Audiology and assessment of hearing		~	~	10	03
	Hearing loss	✓	✓	✓	15	03
	Disorder of Eustachian tube		✓	 ✓ 	10	03
	Disease of external ear		\checkmark	 ✓ 	10	03
	Disease of middle ear	✓	✓	 ✓ 	15	03
	Disease of inner ear	✓	✓	 ✓ 	15	03
	Tumours of middle ear	✓	 ✓ 	 ✓ 	15	03
	Facial nerve and its disorders	✓	\checkmark	 ✓ 	15	03
	Miscellaneous		\checkmark	✓	10	03
2.	NOSE AND PARA NASAL SINUS					
	Anatomy and physiology of nose	✓	✓	✓	15	03
	Disease of external nose		✓	 ✓ 	10	03
	Epistaxis	✓	✓	✓	15	03
	Disease of Nasal septum	✓	\checkmark	✓	15	03
	Acute and chronic inflammatory condition of nose		~	~	10	03
	Allergic Rhinitis	✓	\checkmark	✓	15	03
	Sinusitis	 ✓ 	✓	\checkmark	15	03
	Nasal polyposis	 ✓ 	\checkmark	\checkmark	15	03
	Maxillofacial trauma	✓	\checkmark	\checkmark	15	03

	Benign and malignant tumours of nose and PNS	\checkmark	\checkmark	\checkmark	15	03
	Sleep Apnea syndrome	\checkmark	\checkmark	\checkmark	15	03
	Miscellaneous		\checkmark	\checkmark	10	03
3.	PHARYNX AND ESOPHAGUS					
	Anatomy and physiology of pharynx		\checkmark	\checkmark	10	03
	Inflammatory condition of oral cavity and pharynx		~	\checkmark	10	03
	Deep neck space infections	\checkmark	\checkmark	\checkmark	15	03
	Neoplasms of the oral cavity /orpharynx/ hypopharynx	\checkmark	~	\checkmark	15	03
	Anatomy of Esophagus		\checkmark	\checkmark	10	03
	Congenital/ traumatic/ Neurological condition of esophagus		\checkmark	\checkmark	10	03
	Foreign body upper digestive tract		\checkmark	\checkmark	10	03
	Neoplasms of the esophagus		\checkmark	\checkmark	10	03
	Dysphagia	\checkmark	\checkmark	\checkmark	15	03
4.	LARYNX AND TRACHEA					
	Anatomy and physiology of larynx	\checkmark	\checkmark	\checkmark	15	03
	Inflammatory condition of larynx	\checkmark	\checkmark	\checkmark	15	03
	Laryngotracheal trauma	\checkmark	\checkmark	\checkmark	15	03
	Stridor	\checkmark	\checkmark	\checkmark	15	03
	Tracheostomy	\checkmark	\checkmark	\checkmark	15	03
	Foreign body in the airway		\checkmark	\checkmark	10	03
	Neurological condition of larynx	\checkmark	\checkmark	\checkmark	15	03
	Neoplasms of larynx	\checkmark	\checkmark	\checkmark	15	03
	Miscellaneous		\checkmark	\checkmark	10	03
5.	HEAD AND NECK					
	Anatomy of Neck		\checkmark	\checkmark	10	03
	Classification of Neck Swelling		\checkmark	\checkmark	10	03
	Cystic and solid swelling of neck		\checkmark	\checkmark	10	03
	Thyroid neoplasms	\checkmark	\checkmark	\checkmark	15	03
	Disease of salivary gland	\checkmark	\checkmark	\checkmark	15	03
	Parapharyngeal tumors		\checkmark	\checkmark	10	03
	Miscellaneous		\checkmark	\checkmark	10	03
06	MISCELLANEOUS	\checkmark	\checkmark	\checkmark	15	03
07	AETCOM			\checkmark	05	05

10. MODEL QUESTION PAPERS

I. Write an Essay

2X15=30M

1. A 40 years old male patient came to ENT OPD with complaints of vertigo, Hearing loss, tinnitus, diarrohea, vomiting (2+3+5+5)

- A. What is your proabable diagnosis
- B. Differential diagnosis
- C. Investigations
- D.Treatment

2. A 14 years old male came to ENT OPD with complaints of unilateral Nasal obstruction, recurrent attacks of bleeding from nose which stops on its own. on anterior Rhinoscopy examination- normal (2+3+5+5)

- A. What is your probable diagnosis
- B. Differential diagnosis
- C. investigations
- D. Treatment

II. Write a short notes

- 1. Cochlear implant
- 2. Rhinosporidiosis
- 3. Draw a Neat labelled diagram of bed of tonsil
- 4. Mangament of otosclerosis
- 5. Mangament of airway foreign bodies
- 6. Atrophic rhinitis
- 7. BERA- Brainstem Evocked Respone Audiometery
- 8. Ludwigs angina
- 9. Describe briefly on ability to communicate to patients, Respectful, non -threatening, non-judgmental and empathetic manner.
- 10. Well labelled diagram of facial Nerve course and its topodiagnostic tests

III. Write ultra-short notes

- 1. Nerve Supply of the Tympanic membrane is by
 - a. Auriculotemporal nerve
 - b. Auricular branch of vagus
 - c. Occipital nerve
 - d. Great auricular nerve
 - e. Glossopharyngeal nerve
- 2. A young man present following an accident with loss of hearing in the right ear. On otosocpic examination, Tympanic membrane was normal. Pure tone audiogram shows an air bone gap of 55db in the right ear with normal cochlear reserve. which of the following will be the likely tympanometery findings
 - a. AS
 - b. Ad
 - с. В
 - d. C
- 3. A Patient has come with severe earache; O/E has furuncle ear external otitis. What is the best treatment
 - a. Ear packing with 10% Ichthammol in glycerine wick
 - b. Antibiotics and rest
 - c. Antibiotics and drainage
 - d. Analgesic
- 4. Facial nerve palsy in seen in

20X1=20 Marks

10X5=50 Marks

- a. Seborrheic otitis externa
- b. Otomycosis
- c. Malignant otitis externa
- d. Eczematous otitis externa
- 5. A 7 year old child presenting with acute otitis media does not respond to ampicillin. The examination reveals full and bulging tympanic membrane. The treatment of choice is
 - a. Systemic steroid
 - b. Ciprofloxacin
 - c. Myringotomy
 - d. Cortical Mastoidectomy
- 6. Cauliflower ear is
 - a. Keloid
 - b. Perichondritis in boxers
 - c. Squamous cell carcinoma
 - d. Anaplastic carcinoma
- 7. In otosclerosis carharts notch dips at
 - a. 1000 Hz in air conduction
 - b. 1000 Hz in bone conduction
 - c. 2000 Hz in air conduction
 - d. 2000 Hz in bone conduction
- 8. A patient present with bleeding from the ear, tinnitus and progressive deafness. On examination there is a red swelling behind the intact tympanic membrane that blanches on pressure with pneumatic speculum which of the following is not a part of the management in this patient
 - a. Radiotherapy
 - b. Surgery
 - c. Interferons
 - d. Preoperative embolization
- 9. Bloood supply of facial nerve
 - a. Ascending palatine artery
 - b. Facial antery
 - c. Lingual artery
 - d. Ascending pharyngeal artery
 - e. Stylomastoid artery
- 10. In a patient with acoustic neuroma all are seen except
 - a. Unilateral deafness
 - b. Reduced corneal reflex
 - c. Cerebellar signs
 - d. Acute episode of vertigo
- 11. Characteristic of Kartagener's syndrome
 - a. Absence of cilia
 - b. Ultrastructural abnormality of the cilia
 - c. Cilia underdeveloped
 - d. None
- 12. Onodi cell and Haller cell are related to
 - a. Optic nerve and orbital floor respectively
 - b. Optic nerve and frontal duct, respectively
 - c. Nasolacrimal duct and orbital floor, respectively
 - d. Orbital floor and internal carotid artery, respectively
- 13. Cause of nasal obstruction in atrophic Rhinitis
 - a. Crusting
 - b. Polyp
 - c. Secretions
 - d. DNS
- 14. About nasal syphilis true all except

- a. Perforation occurs in the septum
- b. Saddle nose deformity can occur
- c. In newborn, it present as snuffles
- d. Atrophic Rhinitis is a complication
- e. Secondary syphilis is the commonest association
- 15. In Caldwell Luc's surgery, the naso antral window is made through
 - a. Superior meatus
 - b. Middle meatus
 - c. Inferior meatus
 - d. None of these
- 16. CSF Rhinorrhea is diagnosed by
 - a. Beta 2 microglobullin
 - b. Beta 2 transferrin
 - c. Thyroglobulin
 - d. Transthryretin
- 17. Tear drop sign is seen in
 - a. Fracture floor of orbit
 - b. Fracture lateral wall of nose
 - c. Le-Frte fracture
 - d. Fracture zyfomatic arch
- 18. All predispose to oral cancer except
 - a. Erythroplakia
 - b. Leukoplakia
 - c. Submucous fibrosis
 - d. Lichen planus
 - e. Keratosis pharyngia
- 19. Bronchoscopy visualised all except
 - a. Trachea
 - b. Vocal cords
 - c. First segmental subdivision of bronchi
 - d. Subcarinal Lymph nodes
- 20. Hypernasality with stridor is seen in
 - a. Unilateral abductor palsy
 - b. Bilateral abductor palsy
 - c. Laryngomalacia
 - d. None

11. Theory and practical assessment marks as per table provided by NMC

a. Assessment method of theory

S. N O	Roll nO	Name of the studen t	1 st PCT practical /First ward leaving examina tion	2 nd PCT practic al / Secon d ward leaving exami nation	Prel ims pra ctic al	Home assign ment	Conti nuou s class test (LMS)	Se min ar Self [Museu m study Directed le	Llibrar y assign ment earning	Atte ndan ce theor y	Tot al
			100	100	100	10	25	10	10	10	10	375

b. Assessment method of practical

			Formative	assessmen	nt	Continuous	internal	assessment				
			Long book (150)									
S.N o	Roll .No	Stu den t	1 st PCT practical/ First ward leaving examinati on	2 nd PCT practical / Second ward leaving examina	Prelims practical	Certificate skill based competenc ies	AET CO M	SVL lab activity	Resea rch	Jou rna l	Att end anc e	T ot al
			100	tion 100	100	60	30	50	20	40	10	5 0 0

Department of Ophthalmology

A) COMPETENCIES:

STUDENT MUST DEMONSTRATE:

- Knowledge of common eye problems in the community.
- Recognize, diagnose and manage common eye problems and identify indications for referral.
- Ability to recognise visual impairment and blindness in the community and implement national programmes as applicable in the primary care setting.

B. BROAD SUBJECT SPECIFIC OBJECTIVE:

Knowledge: At the end of the course, student shall have the knowledge of:

- Common problems affecting the eye.
- Principles of management of major ophthalmic emergencies.
- Main systemic disease affecting the eye.
- Effects of local and systemic diseases on patient's vision and the necessary action required minimizing the sequelae of such diseases.
- Adverse drug reaction with special reference to ophthalmic manifestations.
- Magnitude of blindness in India and its main causes.
- National programme for control of blindness and its implementation at various levels.
- Eye care education for prevention of eye problems.
- Role of primary health centre in organization of eye camps.
- Organization of primary health care and the functioning of the ophthalmic assistant.
- Integration of the national programme for control of blindness with the other national health programmes.
- Eye bank organization.

C. SKILLS:

- Elicit a history pertinent to general health and ocular status.
- Assist in diagnostic procedures such as visual acuity testing, examination of eye, Schiotz tonometry, Staining of Corneal pathology, confrontation, perimetry, Subjective refraction including correction of Presbyopia and aphakia, direct ophthalmoscopy and conjunctival smear examination and Cover test.
- Diagnose and treat common problems affecting the eye.
- Interpret ophthalmic signs in relation to common systemic disorders.
- Assist/observe therapeutic procedures such as Subconjunctival injection, corneal conjunctival foreign body removal, carbolic cautery for corneal ulcers, Nasolacrimal duct syringing and tarsorrhaphy.
- Provide first aid in major ophthalmic emergencies.
- Assist to organize community surveys for visual check-up.
- Assist to organize primary eye care service through primary health centres.
- Use effective means of communication with the public and individual to motivate for surgery in cataract and for eye donation.

• Establish rapport with his / her seniors, colleagues and paramedical workers, so as to effectively function as a member of the eye care team.

D. INTEGRATION:

The teaching should be aligned and integrated horizontally and vertically in order to allow the student to understand the structural basis of ophthalmologic problems, their management and correlation with function, rehabilitation and quality of life.

	FINAL YEAR	LECTURES	SGL	SDL	TOTAL (HOURS)
OPHTHALMOLOGY	PART -1	15	20	10	45
	PART - 2	15	25	15	55

3rd MBBS Part - I

SMALL GROUP DISCUSSION TEACHING SCHEDULE PART - 1

S.No	Name of topic and competencies covered	Teaching Method lectures /SGL	Total classes: lectures /SGL (Allotted)	Teacher's name
1	ANATOMY AND PHYSIOLOGY OF EYE AND VISION AN 41.1, AN 41.2, AN 41.3, AN 31.3, OP 1.1, PY 10.17		05	
	AN41.1: Describe and demonstrate parts and layers of eyeball	1 lectures		
	AN41.2: Describe the anatomical aspects of central retinal artery occlusion, cataract, glaucoma	1 lectures		
	AN41.3: Describe the position, nerve supply and actions of intraocular muscles	1SGL		
	AN31.3: Describe anatomical basis of Horner's syndrome OP1.1: Describe the physiology of	1SGL		

	vision (including brief discussion on anatomy of eye)			
	PY10.17: Describe and discuss functional anatomy of eye, physiology of image formation, physiology of vision including colour vision, refractive errors, colour blindness, physiology of pupil and light reflex	1SGL		
2.	OPTICS AND REFRACTION PY 10.17, OP 1.2, OP 1.4		07	
	PY 10.17: Describe and discuss functional anatomy of eye, physiology of image formation, physiology of vision including colour vision, Refractive errors, colour blindness, Physiology of pupil and light reflex	3 lectures		
	OP 1.4: Enumerate the indications and describe the principles of refractive surgeries	2 SGL		
	OP1.2: Define, classify and describe the types and methods of correcting refractive errors	2 SGL		
3.	DISEASES OF CONJUNCTIVA OP 3.3, OP 3.4, OP 3.5, OP 3.6, OP 3.7		07	
	OP 3.3: Describe the etiology, pathophysiology, ocular features, differential diagnosis, complications. and management of various causes of conjunctivitis	3 SGL		
	OP 3.4: Describe the etiology, pathophysiology, ocular features, differential diagnosis, complications and management of trachoma	1 lectures		
	OP 3.5: Describe the etiology, pathophysiology, ocular features, differential diagnosis, complications and management of vernal catarrh	1 lectures		
S.No	Name of topic and competencies covered	Teaching Method	Total classes: T+SGD	Teacher's name

		lectures /SGL	(Allotted)	
4	DISEASES OF CORNEA AND SCLERA OP 4.1, OP 4.2, OP 4.3, OP 4.6, OP 5.1, OP 5.2		07	
	OP 4.1: Enumerate, describe and discuss the types and causes of corneal ulceration	1 SGL		
	OP 4.2: Enumerate and discuss the differential diagnosis of infective keratitis	2 SGL		
6	DISEASES OF CRYSTALLINE LENS		08	
	AN 41.2, OP 7.1, OP 7.2, OP 7.4, IM 24.15			
	AN 41.2: Describe the anatomical aspects of cataract, glaucoma and central retinal artery occlusion OP 7.1: Describe the surgical anatomy and the metabolism of the lens	1 SGL		
	OP 7.2: Describe and discuss the etiopathogenesis, stages of maturation and 3T complications of cataract	3 lectures		
	OP 7.4: Enumerate the types of cataract surgery and describe the steps, intraoperative and postoperative complications of extracapsular cataract extraction surgery	3 SGL		
	IM 24.15: Describe and discuss the etiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilisation, management and rehabilitation of vision and visual loss	1 SGL		
	in the elderly 14. COMMUNITY OPHTHALMOLOGY BLINDNESS: MAGNITUDE, CAUSES AND PREVENTION; NATIONAL AND GLOBAL PERSPECTIVE, NPCB AND VI, CORNEAL BLINDNESS AND EYE BANKING OP 9.4, OP 4.5, OP 4.9			
	OP 9.4: Enumerate, describe and discuss the causes of avoidable	3 SGL		

blindness and the National Programmes for Control of Blindness (including vision 2020)		
OP 4.5: Enumerate the causes of corneal blindness	1 lectures	
OP 4.9: Describe and discuss the importance and protocols involved in eye donation and eye banking	1 lectures	

SUGGESTED TOPICS FOR SLEF DIRECTED LEARNING (SDL) FOR PART – 1

DAY	DATE	SDL NO.	COMPETENCY	TOPIC OF ACTIVITY
1		SDL 1	OP 3.3: Describe the etiology, pathophysiology, ocular features, differential diagnosis, complications. and management of various causes of conjunctivitis	Discuss various types of conjunctivitis
2		SDL 2	OP1.4: Enumerate the indications and describe the principles of refractive surgery	
3		SDL 3	OP 3.6: Describe the etiology, pathophysiology, ocular features, differential diagnosis, complications and management of pterygium	
4		SDL 4	OP 3.7: Describe the etiology, pathophysiology, ocular features, differential diagnosis, complications and management of symblepharon	
5		SDL 5	OP 4.1: Enumerate, describe and discuss the types and causes of corneal ulceration	Discuss bacterial, viral, fungal and corneal ulcers
6		SDL 6	OP 4.3: Enumerate the causes of corneal edema	
7		SDL 7	OP 4.6: Enumerate the indications and the types of	

		keratoplasty	
8	SDL 8	OP 7.2: Describe and discuss the etiopathogenesis, stages of maturation and 3T complications of cataract	Describe etiology, clinical features and management of acquired cataract
9	SDL 9	OP 7.4: Enumerate the types of cataract surgery and describe the steps, intraoperative and postoperative complications of extracapsular cataract extraction surgery	Describe etiology, clinical features and management of acquired cataract
10	SDL 10	OP 9.4: Enumerate, describe and discuss the causes of avoidable blindness and the National Programmes for Control of Blindness (including vision 2020)	Describe prevalence and causes of blindness as per latest survey in India. Discuss vision 2020 strategy 2021-2026

Integration

Integration- Physiology & Pharmacology

	tion – Anatom	-			100.000	
AN30. 5	Explain effect of pituitary tumours on visual pathway	1.Describe the visual field changes in pituitary tumors 2.Discuss the anatomical basis of VF changes in pituitary lesions	Lectur e	Part -1	MCQs/SAQ / Viva voce	Essay/SA Q
AN31. 3	Describe anatomica I basis of Horner's syndrome	1.What is Horner's syndrome? 2.Differentiat e acquired from congenital HS 3.Describe the anatomical basis for HS due to various causes	Lectur e	Part -1	MCQs/SAQ / Viva voce	Essay/SA Q
AN31. 5	Explain the anatomical basis of oculomotor, trochlear and abducent palsy	1.Describe the anatomy of the 3 rd ,4 th and 6 th cranial nerves 2.Enumerate the causes of 3 rd ,4 th and 6 th cranial nerve palsies	Lectur e	Part -1	MCQs/SAQ / Viva voce	Essay/SA Q
AN41. 1	Describe & demonstrate parts and layers of eveball		16d_ectur e	Part -1	MCQs/SAQ / Viva voce	Essay/SA Q

	DISEASES OF SCLERA			
	OP 5.1: Define, enumerate and	1L lectures		
	describe the etiology associated			
	systemic conditions, clinical features,			
	complications, indications for referral			
	and management of episcleritis.			
	OP 5.2: Define, enumerate and	1L lectures		
	describe the etiology associated			
	systemic conditions, clinical features,			
	complications, indications for referral			
	and management of episcleritis.			
	DISEASES OF EYELIDS AND ORBIT		08	
	OP 2.1, OP 2.3, OP 3.7, OP 4.7, OP			
	2.4, OP 2.5, OP 2.6, OP 2.7, OP 2.8			
	OP 2.1: Enumerate the causes,	2L lectures		
	describe and discuss the etiology,			
	clinical presentations and diagnostic			
	features of common conditions of the			
	lid and adnexa including Hordeolum			
	externum/internum, blepharitis,			
	preseptal cellulitis, dacryocystitis,			
	hemangioma, dermoid, ptosis,			
	entropion, lid lag, lagophthalmos			
	OP 2.3: Demonstrate under	1 SGL		
	supervision clinical procedures			
	performed in the lid including: Bell's			
	phenomenon, assessment of			
	entropion/ectropion, perform the			
	regurgitation test of lacrimal sac,			
	massage technique in congenital			
	dacryocystitis, and trichiatic cilia			
	removal by epilation			
	OP 3.7: Describe the etiology,	1 SGL		
	pathophysiology, ocular features,			
	differential diagnosis, complications			
	and management of symblepharon			
	OP 4.7: Enumerate the indications			
	and describe the methods of			
	tarsorrhaphy			
	OP 2.4: Describe the etiology, clinical	1 SGL		
	presentation. Discuss the			
	complications and management of			
	orbital cellulitis			
	OP 2.5: Describe the clinical features			
	on ocular examination and			
	management of a patient with			
	cavernous sinus thrombosis			
1	OP 2.6: Enumerate the causes and	1 SGL		

	describe the differentiating features, and clinical features and management			
	of proptosis			
	OP 2.7: Classify the various types of	1 SGL		
	orbital tumours, Differentiate the	1001		
	symptoms and signs of the			
	presentation of various types of			
	ocular tumors			
	OP 2.8: List the investigations helpful	1 SGL		
	in diagnosis of orbital tumors.			
	Enumerate the indications for			
	appropriate referral			
7	GLAUCOMA		07	
	AN 41.2, OP 6.5, OP 6.7, OP 6.9	1.00		
	AN 41.2: Describe the anatomical	1 SGL		
	aspects of cataract, glaucoma and			
	central retinal artery occlusion			
	OP 6.7: Enumerate and discuss the	3 lectures		
	etiology, the clinical distinguishing	5 10000105		
	features of various glaucomas			
	associated with shallow and deep			
	anterior chamber. Choose			
	appropriate investigations and			
	treatment for patients with above			
	conditions			
	OP 6.9: Choose the correct local and	2 SGL		
	systemic therapy for conditions of the			
	anterior chamber and enumerate			
	their indications, adverse events and			
	interactions			
8.	DISEASES OF UVEAL TISSUE OP 6.1,		06	
0.	OP 6.2, OP 6.3, OP 6.8 06		00	
	OP 6.1: Describe clinical signs of	2 lectures		
	intraocular inflammation and			
	enumerate the features that			
	distinguish granulomatous from non-			
	granulomatous inflammation, Identify			
	acute iridocyclitis from chronic			
	condition			
		1.50		
	OP 6.2: Identify and distinguish acute	1 SGL		
	iridocyclitis from chronic iridocyclitis			
	OP 6.3: Enumerate systemic	1 SGL		
	conditions that can present as	1001		
	iridocyclitis and describe their ocular			
L	,	I	1	1

	manifestations			
	Tumors of uveal tissue	1 SGL		
9.	DISEASES OF VITREOUS AND RETINA OP 8.1, OP 8.2, OP 8.3, OP 8.4, AN 41.2, PA 36.1 07		07	
	OP 8.1: Discuss the etiology, pathology, clinical features and management of 1 SGD vascular occlusions of the retina	1 SGL		
	OP 8.2: Enumerate the indications for laser therapy in the treatment of retinal diseases (including ding retinal detachment, retinal degenerations, diabetic retinopathy and hypertensive retinopathy)	1 lectures		
	AN 41.2: Describe the anatomical aspects of cataract, glaucoma and central retinal artery occlusion	1 SGL		
	PA 36.1 : Describe the etiology, genetics, pathogenesis, pathology, presen- tation, sequelae and complications of retinoblastoma	1 lecture		
10.	DISEASES OF LACRIMAL APPARATUS OP 2.1, OP 2.3, OP 4.4 05		05	
	OP 2.1: Enumerate the causes, describe and discuss the etiology, clinical presentations and diagnostic features of common conditions of the lid and adnexa including Hordeolum externum/internum, blepharitis, preseptal cellulitis, dacryocystitis, hemangioma, dermoid, ptosis, entropion, lid lag, lagophthalmos	2 lecture		
	OP 4.4: Enumerate the causes and	1 SGL		
11.	discuss the management of dry eye DISEASES OF OCULAR MOTILITY AND NYSTAGMUS 06 OP 9.2, OP 1.5, AN 31.5		06	

	OP 9.2: Classify, enumerate the types, methods of diagnosis and indications 3 SGD for referral in a patient with heterotropia/strabismus	3 SGL		
	OP 1.5: Define, enumerate the types and the mechanism by which strabismus leads to amblyopia	1 SGL		
	AN 31.5: Explain the anatomical basis of oculomotor, trochlear and abducent nerve palsies along with strabismus	2 lectureS		
12.	NEURO-OPHTHALMOLOGY AND OCULAR INVOLVEMENT IN SYSTEMIC DISEASES OP 8.5, PY 10.18, OP 9.3, AN 30.5, AN 31.3, PY10.19 06	1 SGL		
	OP 8.5: Describe and discuss the correlative anatomy, etiology, clinical manifestations, diagnostic tests, imaging and management of diseases of the optic nerve and visual pathway	1 SGL		
	OP 9.3: Describe the role of refractive error correction in a patient with headache and enumerate the indications for referral	1 SGL		
	AN 31.3: Describe anatomical basis of Horner's syndrome PY10.19: Describe and discuss auditory and visual evoke potentials		06	
13.	OCULAR INJURIES OP 9.5, OP 6.4	5 SGL		
	OP 9.5: Describe the evaluation and enumerate the steps involved in the stabilisation, initial management and indication for referral in a patient with ocular injury	1L		
	OP 6.4: Describe and distinguish hyphema and hypopyon			

AETCOM MODULES TO BE COVERED IN PART 1

Ophthalmology	3.1	Demonstrate ability to communicate to patients in a patient, respectful, nonthreatening, non-judgmental and empathetic manner
	3.2	Demonstrate an understanding of the implications and the appropriate procedure and response to be followed in the event of medical error

3rd MBBS Part-II

SUGGESTED TOPICS FOR SELF DIRECTED LEARNING (SDL) PART – 2

DAY	DATE	SDL NO.	COMPETENCY	TOPIC OF
				ACTIVITY
1		SDL 1	OP 6.5: Describe and discuss the angle of the anterior chamber and its clinical correlates	
2		SDL 2	OP 6.7: Enumerate and discuss the etiology, the clinical distinguishing features of various glaucomas associated with shallow and deep anterior chamber. Choose appropriate investigations and treatment for patients with above conditions	Discuss etiology, clinical featurs, differential diagnoses and management of narrow angle and open angle glaucomas
3		SDL 3	OP 8.1: Discuss the etiology, pathology, clinical features and management of 1 SGD vascular occlusions of the retina	Describe features of CRVO, CRAO, diabetic and hypertensive retinopathy
4		SDL 4	OP 8.2: Enumerate the indications for laser therapy in the treatment of retinal diseases (including ding retinal detachment, retinal degenerations, diabetic retinopathy and hypertensive retinopathy)	Describe features of CRVO, CRAO, diabetic and hypertensive retinopathy
5		SDL 5	OP 6.1: Describe clinical signs of intraocular inflammation and enumerate the features that distinguish granulomatous from non- granulomatous inflammation, Identify acute iridocyclitis from chronic condition	Discuss etiology, clinical features, differential diagnoses, and management of acute and chronic iridocyclitis
6		SDL 6	OP 8.3: Demonstrate the correct technique of a fundus examination and describe and distinguish the funduscopic features in a normal condition and In conditions causing an abnormal retinal examination	
7		SDL 7	OP 8.4: Enumerate and discuss treatment modalities in management of diseases of the retina	
8		SDL 8	OP 8.5: Describe and discuss the correlative anatomy, etiology, clinical manifestations, diagnostic tests, imaging and management of diseases of the optic nerve and visual pathway	Describe causes, features and differential diagnoses of lesions of visual pathway/optic nerve chiasma and retro- chiasmal

			pathways
9	SDL 9	OP 2.3: Demonstrate under supervision clinical procedures performed in the lid including: Bell's phenomenon, assessment of entropion/ectropion, perform the regurgitation test of lacrimal sac, massage technique in congenital dacryocystitis, and trichiatic cilia removal by epilation	
10	SDL 10	OP 2.3: Demonstrate under supervision clinical procedures performed in the lid including: Bell's phenomenon, assessment of entropion/ectropion, perform the regurgitation test of lacrimal sac, massage technique in congenital dacryocystitis, and trichiatic cilia removal by epilation	
11	SDL 11	AN 31.5: Explain the anatomical basis of oculomotor, trochlear and abducent nerve palsies along with strabismus	Describe causes, features and management of 3 rd , 4 th and 6 th cranial nerve palsy
12	SDL 12	PY 10.18: Describe and discuss the physiological basis of lesion in visual pathway	
13	SDL 13	OP 9.3: Describe the role of refractive error correction in a patient with headache and enumerate the indications for referral	
14	SDL 14	OP 9.5: Describe the evaluation and enumerate the steps involved in the stabilisation, initial management and indication for referral in a patient with ocular injury	Describe ocular lesions and management of closed globe and open globe injuries
15	SDL 15	AN 30.5: Explain effect of pituitary tumours on visual pathway	

SUGGESTED TOPICS FOR DOAP ACTIVITIES/CLINICAL TEACHING DURING PHASE 3 PART -2 – CLINICAL POSTINGS

Day	Competency	Topic of Activity
1	OP 2.2 Demonstrate the symptoms	Revision of history taking
	and clinical signs of common	ophthalmology and relevant
	condition of the lids and adnexa,	general physical and systemic
	AETCOM 1.3. 1.4	examination
2	OF 1.3. OF 22 OP 6.5. OP 8.2. OP	Revision of complete ocular
	8.3. OP 8.5. AETCOM 3.1	examination
3	OF 2.2: Demonstrate the symptoms	Revision of common eyelid
	and clinical signs of common	conditions by demonstration short
	condition of the lids and adnexa OF	case presentation
	2.3 Demonstrate under supervision	
	clinical procedures performed in the	
	lid including Bell's phenomenon	
	assessment of entropion/ectropian	
4	OP 2.3: Demonstrate under	Revision of common disorders of
	supervision clinical procedures	acrimal apparatus case
	performed in the lid including Bell's	demonstration/short case
	phenomenon assessment of	presentation
	entrepian/ectrapion	
5	OP 3.1 Elicit document and present	Revision of common disorders of
	an appropriate history in patient	conjunctiva demonstration/short
	presenting with a "red eye' including	case presentation of common
	congestion, discharge, pain	conjunctival condition
	(differential diagnosis of red eye)	(conjunctivitis, trachema,
	OF 3.2: Demonstrate document and	pterygium concreation pinguicula,
	present the correct method of	Bitot spot/xerosis
	examination of "red eye' including	
	vision assessment corneal lustre	
	pupil abnormality ciliary tenderness	
	differential diagnosis of red eye) OP	
	3.6c Describe the etiology	
	pathophysiology ocular features	
	differential diagnosis, complications	
	and management of pterygium	
6	OP 7.3: Demonstrate the correct	Examination and clinical workup
	technique of ocular examination in	of case of cataract Counselling and
L	patient with cataract OP 7.6:	consent for cataract surgery

	Administer informed according 1	
	Administer informed consent and	
	counsel patients for cataract surgery	
7	in simulated environment	
7	OF 7.4: Enumerate the types of	Presentation of case of nuclear
	cataract surgery and describe the	cataract, and discuss in
	steps intraoperative and	management Describe surgical
	postoperative complications of	steps of conventional ECCE
	extracapsular cataract extraction	
	surgery	
8	OF 7.4 Enumerate the types of	Presentation of case of MSC and
	cataract surgery and describe the	discuss in management Describe
	steps intraoperative and	surgical steps of manual SICS
	postoperative complications of	
	extracapsular cataract extraction	
	surgery OP	
9	the 7.4: Enumerate steps, surgery	Presentation of case of IMSC and
	and describe the types of cataract	discuss its management Describe
	extracapsular cataract extraction	surgical steps of
	surgery intraoperative and	phacoimulsification
	postoperative complications of OP	r
	7.4	
10	the Enumerate the types of cataract	Presentation of case of
	surgery and describe steps,	pseudophakia and discuss
	Intraoperative and postoperative	complications of cataract surgery
	complications of extracapsular	
	cataract extraction surgery	
11	OP 7.4: Enumerate the types of	Demonstrate and discuss common
•••	cataract surgery and describe	instrumenti used for cataract
	extracapsular cataract extraction	surgery
	surgery steps intraoperative and	Surgery
	postoperative complications of	
	extracapsular cataract extraction	
	-	
12	OP 6.7: Innumerate and discuss the	Presentation of case of acute
12		
	etiology, the clinical distinguishing	congestiveglaucomaand discuss
	features of various glaucomas	differential diagnosis of red eye
	associated with shallow and deep	and management of acute
	anterior chamber. Choose	glaucoma
	appropriate investigations and	Auti alamaa l
	treatment for patients with above	Anti-glaucoma drugs
	conditions	
	PH 1.58: Describe drugs used in	
1	ocular disorders	

13	OF 6.7: Innumerate and discuss the etiology, the estinguishing features of various clinical shallow chamber with and deep anterior glaucomas Choose appropriate associated investigations and treatment for patients with above conditions PH 8: Describe drugs used in ocular disorders	Presentation of Caseof primary open angle glaucoma (PAOG) discuss its management
14	OF 6.4: Describe and distinguish hyphema and hypopyon and its clinical correlates OF 6.5: Describe and discuss the angle of anterior chamber and its clinical correlates 9.5: Describe the evaluation and enumerate the in the stabilisation, initial management and indication	Presentation ocular of case of hyphema and other traumatic lesions Innumerate glaucomas associated with narrow and open angle of anterior chamber Discuss management of traumatic
	steps for eferral in patient with ocular injury	ocular lesions
15	OF 0.1: Demonstrate the correct technique to examine extraocular movements (uniocular and binocular)	binocular Presentation of case of esotropia Record uniocular and binocular eye movements
16	OF 9.1: Demonstrate the correct technique to examine extraocular movements (uniocular and binocular)	Presentation of case of exotropia Discuss its management Record of uniocular
17	OP 9.1: Demonstrate the correct technique to examine extraocular movements (uniocular and binocular)	Discuss various orthoptic instruments such as Maddex rod prism bars red and green goggles,stereopsis charts
18	OP 2.6: Enumerate the causes and describe the differentiating features and clinical features and management of proptosis	Demonstration/presentation of case of proptosis discuss its differential diagnosis and principles of its management

19	OP 3.9: Demonstrate the correct	Demonstration of common skill
17	technique of instillation of eye drops	exercises Digital tonometry
	in simulated environment OF 6.7:	instillation of eye medication,
	Innumerate and discuss the etiology.	ocular bandaging
	the clinical distinguishing features of	ocular buildaging
	various glaucomas associated with	Clinical features of open and
	shallow and deep anterior chamber	narrow angle glaucomas
	Choose appropriate investigations	hurrow ungle gludeonius
	and treatment for patients with	Demonstration of Bell's
	above conditions OP 2.3:	phenomenon and repilation of
	Demonstrate under supervision	trichiasis
	clinical procedures performed in the	
	lid including: Bell's phenomenon	
	assessment of entropion/ectropion	
20	OF 3.1: Elicit document and present	Presentation of case of acute
_	an appropriate history patient	indocyclitis and discuss
	presenting with a "red eye' including	differential diagnosis of red eye
	congestion discharge, pain	and management of iridocyclitis
	(differential diagnosis of red eye)	C J
	PH 1.58 Describe drugs used in	Discuss cycloplegic drugs and
	ocular disorders	corticosteroids
21	OP 4.1 Enumerate describe and	Presentation/demonstration of case
	discuss the types and causes of	of comea ulcer/ comeal opacity
	corneal ulceration	
	PH 1.58 Describe drugs used in	Discuss topical antibiotics antiviral
	ocular disorders	and antifungal drugs
22	OF 3.8 OP 4.8 Demonstrate the	Technique of removal of foreign
	correct technique of removal of	body from the conjunctivaand
	foreign body from the eye, cornea in	cornea
	simulated environment	
23	OF 4.10: Counsel patients and	Counsel patients and family about
	family about eye donation in a	eye donation in simulated
	simulated environment	environment
24		Ward Leaving test

Assessment

Eligibility to appear for university examinations is dependent on fulfilling criteria in two main areas – attendance and internal assessment marks

Attendance

Attendance requirements are 75% in theory and 80% in clinical postings for eligibility to appear for the examinations in Ophthalmology.

75% attendance in AETCOM Module is required for eligibility to appear for final examination in 3rd professional year 3 part 1.

Internal Assessment

Progress of the medical learner shall be documented through structured periodic assessment that includes formative and summative assessments. Logs of skill-based training shall be also maintained.

There shall be no less than three internal assessment examinations in Ophthalmology. An end of posting clinical assessment shall be conducted for each of the Ophthalmology clinical posting.

Day to day records and logbook (including required skill certifications) should be given importance in internal assessment. Internal assessment should be based on competencies and skills.

Learners must secure at least 50% marks of the total marks (combined in theory and clinical; not less than 40 % marks in theory and practical separately) assigned for internal assessment in Ophthalmology in order to be eligible for appearing at the final University examination.

Internal assessment marks will reflect as separate head of passing at the summative examination.

The results of internal assessment should be displayed on the notice board within 1-2 weeks of the test.

Remedial measures should be offered to students who are either not able to score qualifying marks or have missed on some assessments due to any reason.

Learners must have completed the required certifiable competencies for that phase of training and Ophthalmology logbook entry completed to be eligible for appearing at the final university examination.

AETCOM assessment will include: (a) Written tests comprising of short notes and creative writing experiences, (b) OSCE based clinical scenarios / viva voce.

University examinations

University examinations are to be designed with a view to ascertain whether the candidate has acquired the necessary knowledge, minimal level of skills, ethical and

professional values with clear concepts of the fundamentals which are necessary for him/her to function effectively and appropriately as a physician of first contact. Assessment shall be carried out on an objective basis to the extent possible.

Marks allotted

Ophthalmology	Theory	Clinical examination
Total marks	100 marks	100 marks
	Long essay 2X15= 30	One long case x 30marks=30marks 2 short cases 2 x15marks=30
	Short essay 10x5=50 marks	OSCE =20marks
	MCQs 20x1=20marks	Orals and viva voce = 20 marks

The theory paper should include different types such as structured essays, short essays, Short Answers Questions (SAQ) and MCQs (Multiple Choice Questions). Marks for each part should be indicated separately.

All the question papers to follow the suggested **blueprint (APPENDIX 1).** It is desirable that the marks allotted to a particular topic are adhered to.

A minimum of **80%** of the marks should be from the **must know** component of the curriculum. A maximum of **20%** can be from the

desirable to know component. All main essay questions to be from the must know component of the curriculum.

One main essay question to be of the modified variety containing a clinical case

scenario. At least 30% of questions should be clinical case scenario based. Questions to be constructed to test higher cognitive levels.

Clinical examinations will be conducted in the hospital wards. Clinical cases kept in the examination must be common conditions that the learner may encounter as a physician of first contact in the community. Selection of rare syndromes and disorders as examination cases is to be discouraged. Emphasis should be on candidate's capability to elicit history, demonstrate physical signs, write a case record, analyze the case and develop a management plan.

Viva/oral examination should assess approach to patient management, emergencies, attitudinal, ethical and professional values. Candidate's skill in interpretation of common investigative data, X-rays, identification of specimens, ECG, etc. is to be also assessed.

At least one question in each paper of the clinical specialties in the University examination should test knowledge competencies acquired during the professional development programme. Skill competencies acquired during the Professional Development Programme must be tested during the clinical, practical and viva voce.

There shall be one main examination in an academic year and a supplementary to be held not later than 90 days after the declaration of the results of the main examination.

Pass criteria

Internal Assessment: 50% combined in theory and practical (not less than 40% in each) for eligibility for appearing for University Examinations

University Examination: Mandatory 50% marks both in theory and clinicals (clinicals = clinical + viva)

The grace marks up to a maximum of five marks may be awarded at the discretion of the University to a learner for clearing the examination as a whole but not for clearing a subject resulting in exemption.

Appointment of Examiners

Person appointed as an examiner in the subject must have at least four years of total teaching experience as assistant professor after obtaining postgraduate degree in the subject in a college affiliated to a recognized/approved/permitted medical college.

For the Practical/ Clinical examinations, there shall be at least four examiners for 100 learners, out of whom not less than 50% must be external examiners. Of the four examiners, the senior-most examiner will act as the Chairman and coordinator of the whole examination programme so that uniformity in the matter of assessment of candidates is maintained.

Where candidates appearing are more than 100, two additional examiners (one external & one internal) for every additional 50 or part there of candidates appearing, be appointed.

All eligible examiners with requisite qualifications and experience can

be appointed as internal examiners by rotation External examiners may

not be from the same University.

Eligibility to appear for University Examination

	75% in theory and 80% in practical in each subject and in each professional year
Internal Assessment	Learners must secure at least 50% marks of the total marks (combined in theory and practical / clinical not less than 40 % marks in theory and practical separately)

Examination

a. Assessment method of theory

1st PCT practical/First ward leaving examination-100 2nd PCT practical / Second ward leaving examination-100 Prelims practical-100 Home assignment -10 Continuous class test –LMS-25 Seminar -10 Museum study -10 Library assignement -10 Attendance -10 Total -375

b. Assessment method of practical

1st PCT practical/First ward leaving examination-100 2nd PCT practical / Second ward leaving examination-100 Prelims practical-100 Certificate skill based competencies-100 AETCOM-30 SVL lab activity-50 Research-20 Journal-40 Attendance-10 Total-500

APPENDIX 1: Blueprint for Ophthalmology

theory Examinations

Topics	Marks Distribution
Eyelids disorders	5-8
Conjunctival diseases	5-10
Corneal disorders	15- 18
Refractive errors	5-8
Lacrimal Drainage system	5-8
Tear Film abnormalities	5-8
Diseases of Sclera	3-5
Diseases of Lens	15-18
Glaucoma	15- 18
Uveitis	15-18
Diseases of Retina and choroid	15- 17
Orbital diseases	5-8
Neuroophthalmological conditions	5-8
Community Ophthalmology	5-8
Strabismus	3-5
Total	100

OPHTHALMOLOGY SAMPLE QUESTION PAPER FINAL MBBS PART – 2

TIME: 3 Hrs	Max Marks: 100
Answer All Questions	
Draw suitable diagrams where ever necessary	
I. Essay Questions:	15×2=30M
1) Describe the optic disc changes, visual field defects and manager Angle Glaucoma?	ment of Primary Open (5+5+5)M
2) (i) A 60 year old female diabetic patient came to ophthalmology of gradual loss of vision in both eyes. Mention two causes for gradual and two causes for sudden loss of vision in Diabetes mellitus.	
(ii) Write the classification of Diabetic retinopathy	5M
(iii) Draw the fundus picture in Diabetic retinopathy	4M
(iv) Mention two ocular investigations for Diabetic retinopathy	2M
II. Write short notes:	5×10=50M
3) Chalazion	
4) Phlyctenular conjunctivitis	
5) Keratoconus	
6) Classification of uveiitis.	
7) Complicated cataract	
8) Layers of retina with labelled diagram	
9) Papilloedema	
10) NPCB	
11) Aphakia	

12) How would you approach the family of a braindead patient to discuss the possibility of eye donation.

 Gonioscopy is used to study A) anterior chamber 	B) posterior chamber	[]
 C) Angle of anterior chamber 2) Refractive condition of the eye a A) hypermetropia of 2 D C) hypermetropia of 5 D 	D) anterior segmentat birth isB) myopia of 2 DD) myopia of 5 D	[]
3) Coloured halos are seen in all exA) cataract B) angle cloD) corneal opacity	-	[edema]
4) Which cell of the retina are respA) bipolar cellsB) rod ccells	_	[D) co] one
5) Which layer of cornea once destA) EpitheliumC) Stroma	troyed doesn't regenerate B) Bowman's membrane D) Descemet's membrane	[]
6) First symptom of sympathetic of A) Decreased near vision C) Pain	-	[]
7) Riders are seen in		[]
A) Blue dot cataractC) Embryonal nuclear cat	B) Zonular cataraotaractD) Diffuse nuclea		act
8) Snow flake cataract is pathognoA) ChalcosisC) Diabetes mellitus	monic feature of? B) Wilson's disea D) Trauma	[se]
9) "D" shaped pupil is seen inA) IridodialysisC) Ectopia lentis	B) Aniridia D) Poly coria	[]
10) Synchysis scintillance is due toA) Asteroid bodiesC) Cholesterol crystals	: B) Muscae volitantes D) Amyloid degeneratio	[n]
11) Koeppe's nodules are characterA) Granulomatous uveitisB) Pan uveitisC) Posterior uveitis	ristic of	[]

D) Intermediate uveitis

nd to: B) Glaucoma D) Retinopathy	[]
d by: B) Pneumococcus D) Moraxella axenfeld ba	[acillus]
	[]
	-]
amber intra ocular lens is C)5D	[D)15D]
c is: B) Tropicamide D) Atropine]]
	[]
v eye EXCEPT:	[]
proptosis in adults is:	[]
	B) Glaucoma D) Retinopathy d by: B) Pneumococcus D) Moraxella axenfeld ba B) Converge D) Latent so amber intra ocular lens is C)5D c is: B) Tropicamide D) Atropine	B) Glaucoma D) Retinopathy d by: [B) Pneumococcus D) Moraxella axenfeld bacillus [B) Convergent squint D) Latent squint amber intra ocular lens is [C)5D D)15D c is: [B) Tropicamide D) Atropine [v eye EXCEPT: [

Practicals:

LONGCASE	LIST OF SHORT CASE
Immature cataract	Pterygium
Mature cataract	Pingeucula
Pseudophakia	Corneal opacity
Aphakia	Phthisis bulbi
Hypermature cataract	Lids swelling
	Subconjunctival hemorrhage
	ptosis
	Episcleritis/scleritis
	CORNEAL ULCER
	And so on

Distribution of Marks for Practical Examinations:

1	Practical Examination	(70marks)
	LONGCASE(1x40)	40
	SHORTCASE(2x15)	30
2	OSCE	(20marks)
	LENSES&DRUGS	10
	INSTRUMENTS	10
3	VIVA VOCE	(10 MARKS)
	ORALS&COMMUNITYOPHTHALMOLOGY	10
	TOTALMARKS	100

RECOMMENDEDBOOKS:

S.No	Name of Book	Author(s)	Edition	Publishers
1	Parsons' Diseases of the EYE	Ramanjit Sihota, Radhika Tandon	23 rd	Elsevier Publication
2	Comprehensive ophthalmology	AK Khurana	9 th	јаурее

Theory and practical assessment marks as per table provided by NMC

a. Assessment method of theory

S.	Roll	Name	1 st PCT	2 nd PCT	Prel	Home	Conti	Se	Museu	Llibrar	Atte	Tot
Ν	nO	of the	practical	practic	ims	assign	nuou	min	m	у	ndan	al
0		studen	/First	al /	pra	ment	S	ar	study	assign	ce	
		t	ward	Secon	ctic		class			ment	theor	
			leaving	d ward	al		test				у	
			examina	leaving			(LMS	Self [Directed le	earning		
			tion	exami)					
				nation								
			100	100	100	10	25	10	10	10	10	375

b. Assessment method of practical

			Formative	assessmen	nt	Continuous	internal	assessment				
						Long book ((150)					
S.N	Roll	Stu	1 st PCT	2 nd PCT	Prelims	Certificate	AET	SVL lab	Resea	Jou	Att	Т
0	.No	den t	practical/ First ward	practical /	practical	skill based	CO	activity	rch	rna	end	ot
			leaving	Second		competenc	Μ			1	anc	al
			examinati on	ward leaving examina tion		ies					e	
			100	100	100	60	30	50	20	40	10	5
												0
												0

SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES SVIMS-SRI PADMAVATHI MEDICAL COLLEGE FOR WOMEN::TIRUPATI

MBBS - 3rd BOARD OF STUDIES MEETING HELD ON 24.07.2024, 25.07.2024, 30.07.2024 & 31.07.2024

Minutes of the 3rd Board of Studies (1st MBBS, 2nd MBBS, 3rd MBBS Part-I & II) Meeting held at College Council Hall, SVIMS-SPMCW on 24.07.2024, 25.07.2024, 30.07.2024 & 31.07.2024 from 10.00 AM onwards.

1.	Dr Alladi Mohan Dean	Chairman
	SVIMS	
2.	Dr.UshaKalawat	Member Secretary
	Principal, SVIMS-SPMCW	
3.	Dr. Aparna R. Bitla	Member
	Registrar, SVIMS - Virtual	
4.	Dr. V. Vanajakshamma	Member
	Controller of Examinations	incluser .
	SVIMS	
5.	Dr. C. Sreekanth	Member
	Professor & HoD	Member
	Dept. of Anatomy	
	SVIMS-SPMCW, Tirupati	
6.	Dr. D. Jagadeesh Babu	External expert
0.	Professor	External expert
	Dept. of Anatomy	
	SVMC, Tirupati	
7.	Dr. M. Sharan B Singh	Member
	Professor & HoD	
	Dept. of Physiology	1 · · ·
2012	SVIMS-SPMCW, Tirupati	
8.	Dr. V S Bhagyalakshmi	External expert
	Professor & HOD	
	Dept. of Physiology	
	S.V. Medical College, Tirupati	
9.	Dr. Aparna R. Bitla	Member
	Professor & HoD	
	Dept. of Biochemistry	
	SVIMS-SPMCW, Tirupati - Virtual	
10.	Dr. Madhavilatha	External expert
10.	Professor & HoD	External expert
	Dept. of Biochemistry	Ing
	SVMC, Tirupati - Virtual	
11.	Dr. K. Umamaheswara Rao	Member
11.	Professor & HoD	Wiember
	Dept. of Pharmacology	
	1 00	
12.	SVIMS-SPMCW, Tirupati Dr. Ashalatha	Eutomal our out
12.	Professor & HoD,	External expert
	Dept of Pharmacology	
40	SVMC, Tirupati - Virtual	M
13.	Dr. N. Rukmangadha	Member
	Professor & HoD	
	2 nd MBBS, Coordinator	
	Dept. of Pathology	
	SVIMS, Tirupati	
14.	Dr. Janaki,	External expert
	Professor & HoD	
	Dept. of Pathology	ł.
	Shanthi Ram Medical College, Nandyal - Virtual	
15.	Dr. B. Venkataramana	Member
	Professor & HoD	
	Dept. of Microbiology	
	SVIMS-SPMCW, Tirupati	

Members of the Board of Studies:

16.	Dr. Animireddy Kishore Professor, Dept. of Microbiology	External expert
	Apollo Institute of Medical Sciences and Research Murakambattu, Chittoor - Virtual	
17.	Dr. K. Nagaraj	Member
	Professor& HoD	
	3 rd MBBS Part-I, Coordinator	
	Dept. of Community medicine	
	SVIMS-SPMCW, Tirupati	
18.	Dr. Pankaj B Shah	External expert
	Professor & Associate Dean (Research)	-
	Dept of community medicine	
	SRMC, Chennai - Virtual	
19.	Dr. K. Jyothi Prasad	Member
	Professor & HoD, Dept. of Forensic Medicine SVIMS-SPMCW, Tirupati	
20.	Dr. Kilari Bhaskar Md	
20.	Professor & Head	External expert
	Dept. of Forensic Medicine & Toxicology	
	Government Medical College, Eluru - Virtual	
21.	Dr. J. Harikrishna	Member
	Professor & HoD	
	3 rd MBBS Part-II, Coordinator	
	Dept. of General Medicine	
	SVIMS-SPMCW, Tirupati	
22.	Dr. Ravi, K	E-t
<i>22</i> .	Professor & HoD, Dept. of Medicine	External expert
	Bangalore Medical College and Research Institute	
	Fort, K. R. Road, Bangalore - Virtual	
23.	Dr. Y. Mutheeswarajah	Member
	Professor & HoD	Member
	Dept. of General Surgery	
	SVIMS-SPMCW, Tirupati	
24.	Dr. S. Nagamuneiah, MS.,	External expert
	Professor, Dept. of General Surgery	
	ACSR Govt., Medical College, Nellore	
25.	Dr.J. Malathi	Member
	Professor & HoD	
	Dept.of OBG, SVIMS-SPMCW Tirupati.	
26.	Dr. Keshava Gangadharan	External expert
-0.	Professor & HoD	External expert
	Dept. of OBG	
	PES Medical College, Kuppam - Virtual	
27.	Dr. S. B. Amarnath	Member
	Professor & HoD	
	Dept. of ENT, SVIMS-SPMCW	
28.	Dr. Ravi. D	External expert
	Professor & HoD, Dept. of ENT	
	Mandya Institute of Medical Sciences	
	Mandya, Karnataka - Virtual	
29.	Dr.Prabhanjankumar	Member
	Associate Professor & HoD	
	Dept. of Ophthalmology SVIMS-SPMCW	
30.	Dr. V. Vijaya Lakshmi	External expert
50.	Professor & HoD, Dept. of Ophthalmology	External expert
	Govt. Medical College, Guntur - Virtual	
31.	Dr. N. Punith Patak	Member
	Professor & HoD	
	Dept. of Pediatrics, SVIMS-SPMCW	
32.	Dr.Vinayaka.G	External expert
	Professor & HoD, Dept. of Paediatrics	
	Subbaiah Institute of Medical sciences	
	Shimoga - Virtual	
33.	Dr. S. M. Venugopal	Member
	Associate Professor & HoD	
	Dept. of Orthopaedics, SVIMS-SPMCW	1

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34.	Dr Arun H S Professor, Dept. of Orthopaedics	External expert
	Sri Devaraj Urs Medical College, Tamaka, Kolar - Virtual	
35.	Dr. Arpana Bhide Professor, Dept. of Physiology SVIMS-SPMCW	1 st MBBS Coordinator

SVIMS-SPMCW has conducted the 3rd Board of Studies (1st MBBS, 2nd MBBS, 3rd MBBS Part-I & II) Meeting for approval of the Competent Based Medical Education Curriculum notified by NMC (UGMEB) vide No.U.14021/8/2023-UGMEB, dated, 01.08.2023 for implementation of the said regulations from the Academic Year 2023 onwards in SVIMS-Sri Padmavathi Medical College for Women of SVIMS University.

MINUTES OF THE MEETING:

- 1. Curriculum of respective Phases were approved separately.
- <u>COMMON REGULATIONS -</u> The Committee approved to implement Competency Based Medical Education Curriculum for MBBS course notified by NMC (UGMEB) vide No.U.14021/8/2023-UGMEB, dated, 01.08.2023 for the batches admitted in MBBS from the Academic year 2019-20, effective from the year 2023 onwards in SVIMS-SPMCW and to follow the guidelines notified by NMC from time to time.

CBME New Regulations:

1	(Pream) Progra Learne Medica	tions and teaching approach as per CBME of NMC ble, Objectives of the Indian Graduate Medical Training mme, National Goals, Institutional Goals, Goals for the r, Competency based training programme of the Indian al Graduate, Lifelong learner committed to continuous rement of skills & knowledge)	<u>Approved</u>
2	Develo	 Wise Training and Time distribution for Professional opment Training period, time distribution & University examinations: Distribution of teaching hours phase wise New teaching /learning elements Foundation Course Early Clinical Exposure Electives Professional Development including Attitude, Ethics and Communication Module (AETCOM) Learner-doctor method of clinical training (Clinical Clerkship) Assessment (in the phase wise Internal Assessment marks distribution (theory & practical) provided as tables, the split up of logbook marks to be adjusted as per total marks mentioned. Eligibility to appear for Professional examinations Attendance and Internal Assessment Advised to display the results of Internal Assessment on the Notice Board within one week of the Test. University Examinations AETCOM Question in university examination: It was resolved to include at least one question in each paper (both paper I & II) of each clinical specialty in the university examination. The 3rd MBBS Part-I University Examinations 2024 will be held as per 2023 New NMC Regulations, that is Two subjects (Community Medicine & Forensic Medicine) 	Approved
3	Readmi	ssion after discontinuation of study	Approved

4	Migration/ Transfer of candidates	Approved
5	SUBMISSION OF LABORATORY/ CLINICAL RECORD.	Approved
6	Log Book	Approved
7	Malpractice	Approved
8	Declaration of Class	Approved
9	Award of Degree	Approved
1	 Academic calendar proposed by NMC Table 1: Time distribution of MBBS Program and Examination Schedule – 2023- 2024 batch onwards 	Approved
	Table 2: Distribution of subjects in each Professional Phase Table 3: Foundation Course	
	Table 4: Distribution of Subject Wise Teaching Hours for 1st MBBS	
	Table 5: Distribution of Subject Wise Teaching Hours for II MBBS	
	Table 6: Distribution of Subject Wise Teaching Hours for 3rd MBBS part 1.	
	Table 7: Distribution of Subject Wise Teaching Hours for 3rd MBBS part II.	

Table 8: Clinical Posting Schedules in weeks Table 9: Learner- Doctor program (Clinical Clerkship) Table 10 : Marks distribution for various subjects for University Annual Examinations

Phase wise marks distribution of internal assessment - Theory & Practical

S. No.	Memb	er	Signature
1.	Dr Alladi Mohan Dean SVIMS	Chairman	AM2 AM27F12
2.	Dr.UshaKalawat Principal SVIMS-SPMCW	Member Secretary	Walawat
3.	Dr. Aparna R. Bitla Registrar, SVIMS	Member	TERM
4.	Dr. V. Vanajakshamma Controller of Examinations SVIMS.	Member	" W
5.	Dr. C. Sreekanth Professor & HOD Dept. of Anatomy SVIMS-SPMCW, Tirupati	Member	Cho
6.	Dr. D. Jagadeesh Babu Professor, Dept. of Anatomy, SVMC, Tirupati.	External expert	D. Jay C. w
7.	Dr. M. Sharan B Singh Professor & HOD Dept. of Physiology SVIMS-SPMCW, Tirupati	Member	MSecaran By Singl 718124
8.	Dr. V S Bhagyalakshmi Professor & HOD Dept. of Physiology S.V. Medical College, Tirupati	External expert	forscepie
9.	Dr. Aparna R. Bitla Professor &HOD Dept. of Biochemistry SVIMS-SPMCW, Tirupati.	Member	Apar
10.	Dr. Madhavilatha Professor & HOD Dept. of Biochemistry SVMC, Tirupati	External expert	m
11.	Dr. K. Nagaraj Professor& HOD Dept. of Community medicine SVIMS-SPMCW, Tirupati	Member	K-Nagalaf

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2	12.	Dr. Pankaj B Shah Professor & Associate Dean (Research) Dept of community medicine	External expert	Mail Attached
1_ v.		SRMC, Chennai - Virtual		
2	13.	Dr. K. Umamaheswara Rao	Member	1
		Professor & HoD		V.O
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	15.	Dr. N. Rukmangadha	Member	President and the second
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	16.	Dr. Janaki,	External expert	
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	17.	Dr. B. Venkataramana	Member	110
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	18.	Dr. Animireddy Kishore	External expert	
		Professor, Dept. of Microbiology		1 11 1
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	22.	Dr. Ravi. K	External expert	
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10000	23.	Dr. Y. Mutheeswaraiah	Member	0
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- C. (24)	24.	Dr. S. Nagamuneiah, MS.,	External expert	1 1 1
		Professor, Dept. of General Surgery, ACSR Govt.,		mail Attached.
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28.	Dr. Ravi. D	External expert	
	Professor & Head, Dept. of ENT Mandya Institute of Medical		mail Attached
	Sciences Mandya, Karnataka		1001
29.	Dr.Prabhanjankumar	Member	
	Associate Professor & HoD i/c		P. Prachanjan um
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30.	Dr. V. Vijaya Lakshmi	External expert	
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31.	Dr. N. Punith Patak	Member	TIL M
	Associate Professor & i/c HoD		Att !!
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32.	Dr.Vinayaka.G Professor & HOD	External expert	
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33.	Dr. Venugopal	Member	
55.	Associate Professor	Member	T. O.
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34.	Dr Arun H S	External expert	
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35.	Dr. Arpana Bhide Professor	1 st MBBS	de alide
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37.	Dr. K. Nagaraj	Coordinator	
57.	Professor& HOD	3rd MBBS Part-I	K.Nagalaj
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	SVIMS-SPMCW, Tirupati		-0-0
38.	Dr. J. Harikrishna	3rd MBBS Part-II	
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SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES SVIMS- SRI PADMAVATHI MEDICAL COLLEGE FOR WOMEN::TIRUPATI

Minutes of the 3rd Board of Studies (2rd MBBS) Meeting held at College Council Hall, SVIMS-SPMCW on 25.07.2024 from 10 AM onwards.

1	Dr Alladi Mohan	Chairman
	Dean	
	SVIMS	
2	Dr.UshaKalawat	Member Secretary
	Principal	
	SVIMS-SPMCW	
3	Dr Aparna R Bitla	Member
	Registrar, SVIMS - Virtual	
4	Dr V. Vanajakshamma,	Member
	Controller of Examinations	
	SVIMS	
5	Dr. N. Rukmangadha "	Member
	Professor & HoD	
	2 nd MBBS Coordinator	
	Dept. of Pathology	
	SVIMS-SPMCW, Tirupati	
6	Dr. Janaki,	External expert
	Professor & HoD,	
	Dept. of Pathology	
	Shanthi Ram Medical College, Nandyal - Virtual	
7	Dr. K. Umamaheswara Rao	Member
	Professor & HoD	
	Dept. of Pharmacology	
	SVIMS-SPMCW, Tirupati	
8	Dr. Ashalatha	External expert
	Professor & HoD,	
	Dept of Pharmacology	
	SVMC, Tirupati - Virtual	
9	Dr. B. Venkataramana	Member
	Professor & HoD	
	Dept. of Microbiology	
	SVIMS-SPMCW, Tirupati	
10	Dr. Animireddy Kishore	External expert
	Professor, Dept. of Microbiology	and the same of the same
	Apollo Institute of Medical Sciences and	
	Research, Murakambattu, Chittoor - Virtual	

Members of the Board of Studies:

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SVIMS-SPMCW has conducted the 3rd Board of Studies (2nd MBBS) Meeting for approval of the Competent Based Medical Education Curriculum notilied by NMC (UGMEB) vide No.U.14021/8/2023-UGMEB, dated, 01.08.2023 for implementation of the said regulations from the Academic Year 2023 onwards in SVIMS-Sri Padmavathi Medical College for Women of SVIMS University.

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		External expert
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	Apollo Institute of Medical Sciences and Research	3
	Murakambattu, Chittoor - Virtual	and second s
17.	Dr. K. Nagaraj	Member
	Professor& HoD	
	3 rd MBBS Part-1, Coordinator	
	Dept. of Community medicine	
	SVIMS-SPMCW, Tirupati	- External expert
18.	Dr. Pankaj B Shah Professor & Associate Dean (Research)	
	Dept of community medicine	AX
	SRMC, Chennai - Virtual	
19.	Dr. K. Jvothi Prasad	Member
	Professor & HoD, Dept. of Forensic Medicine	
	SVIMS-SPMCW, Tirupati	
20.	Dr. Kilari Bhaskar Md	External expert
	Professor & Head	
	Dept. of Forensic Medicine & Toxicology	
	Government Medical College, Eluru - Virtual	Member
21.	Dr. J. Harikrishna	Member
	Professor & HoD	
	3 rd MBBS Part-II, Coordinator	
	Dept. of General Medicine	
	SVIMS-SPMCW, Tirupati	
22.	Dr. Ravi. K	External expert
	Professor & HoD, Dept. of Medicine	
	Bangalore Medical College and Research Institute	
	Fort, K. R. Road, Bangalore - Virtual	
23.	Dr. Y. Mutheeswaraiah	Member
	Professor & HoD	
	Dept. of General Surgery	
	SVÎMS-SPMCW, Tirupati	
24.	Dr. S. Nagamuneiah, MS.,	External expert
	Professor, Dept. of General Surgery	
	ACSR Govt., Medical College, Nellore	
25.	Dr.J. Malathi	Member
	Professor & HoD	
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26	Tirupati.	External expert
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26. 27.	Tirupati. Dr. Keshava Gangadharan Professor & HoD Dept. of OBG PES Medical College, Kuppam - Virtual Dr. S. B. Amarnath	
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27.	Tirupati. Dr. Keshava Gangadharan Professor & HoD Dept. of OBG PES Medical College, Kuppam - Virtual Dr. S. B. Amarnath Professor & HoD Dept. of ENT, SVIMS-SPMCW	Member
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27.	Tirupati. Dr. Keshava Gangadharan Professor & HoD Dept. of OBG PES Medical College, Kuppam - Virtual Dr. S. B. Amarnath Professor & HoD Dept. of ENT, SVIMS-SPMCW Dr. Ravi. D Professor & HoD, Dept. of ENT	Member
27.	Tirupati. Dr. Keshava Gangadharan Professor & HoD Dept. of OBG PES Medical College, Kuppam - Virtual Dr. S. B. Amarnath Professor & HoD Dept. of ENT, SVIMS-SPMCW Dr. Ravi. D Professor & HoD, Dept. of ENT Mandya Institute of Medical Sciences	Member
27.	Tirupati. Dr. Keshava Gangadharan Professor & HoD Dept. of OBG PES Medical College, Kuppam - Virtual Dr. S. B. Amarnath Professor & HoD Dept. of ENT, SVIMS-SPMCW Dr. Ravi. D Professor & HoD, Dept. of ENT Mandya Institute of Medical Sciences Mandya, Karnataka - Virtual	Member External expert
27. 28.	Tirupati. Dr. Keshava Gangadharan Professor & HoD Dept. of OBG PES Medical College, Kuppam - Virtual Dr. S. B. Amarnath Professor & HoD Dept. of ENT, SVIMS-SPMCW Dr. Ravi. D Professor & HoD, Dept. of ENT Mandya Institute of Medical Sciences Mandya, Karnataka - Virtual Dr.Prabhanjankumar	Member
27.	Tirupati. Dr. Keshava Gangadharan Professor & HoD Dept. of OBG PES Medical College, Kuppam - Virtual Dr. S. B. Amarnath Professor & HoD Dept. of ENT, SVIMS-SPMCW Dr. Ravi. D Professor & HoD, Dept. of ENT Mandya Institute of Medical Sciences Mandya, Karnataka - Virtual Dr.Prabhanjankumar	Member External expert
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27. 28.	Tirupati. Dr. Keshava Gangadharan Professor & HoD Dept. of OBG PES Medical College, Kuppam - Virtual Dr. S. B. Amarnath Professor & HoD Dept. of ENT, SVIMS-SPMCW Dr. Ravi. D Professor & HoD, Dept. of ENT Mandya Institute of Medical Sciences Mandya, Karnataka - Virtual Dr.Prabhanjankumar Associate Professor & HoD Dept. of Ophthalmology	Member External expert
27. 28. 29.	Tirupati. Dr. Keshava Gangadharan Professor & HoD Dept. of OBG PES Medical College, Kuppam - Virtual Dr. S. B. Amarnath Professor & HoD Dept. of ENT, SVIMS-SPMCW Dr. Ravi. D Professor & HoD, Dept. of ENT Mandya Institute of Medical Sciences Mandya, Karnataka - Virtual Dr.Prabhanjankumar Associate Professor & HoD Dept. of Ophthalmology SVIMS-SPMCW	Member External expert Member
27. 28.	Tirupati. Dr. Keshava Gangadharan Professor & HoD Dept. of OBG PES Medical College, Kuppam - Virtual Dr. S. B. Amarnath Professor & HoD Dept. of ENT, SVIMS-SPMCW Dr. Ravi. D Professor & HoD, Dept. of ENT Mandya Institute of Medical Sciences Mandya, Karnataka - Virtual Dr.Prabhanjankumar Associate Professor & HoD Dept. of Ophthalmology SVIMS-SPMCW Dr. V. Vijava Lakshmi	Member External expert
27. 28. 29.	Tirupati. Dr. Keshava Gangadharan Professor & HoD Dept. of OBG PES Medical College, Kuppam - Virtual Dr. S. B. Amarnath Professor & HoD Dept. of ENT, SVIMS-SPMCW Dr. Ravi. D Professor & HoD, Dept. of ENT Mandya Institute of Medical Sciences Mandya, Karnataka - Virtual Dr.Prabhanjankumar Associate Professor & HoD Dept. of Ophthalmology SVIMS-SPMCW Dr. V. Vijaya Lakshmi Professor & HoD, Dept. of Ophthalmology	Member External expert Member
27. 28. 29. 30.	Tirupati. Dr. Keshava Gangadharan Professor & HoD Dept. of OBG PES Medical College, Kuppam - Virtual Dr. S. B. Amarnath Professor & HoD Dept. of ENT, SVIMS-SPMCW Dr. Ravi. D Professor & HoD, Dept. of ENT Mandya Institute of Medical Sciences Mandya, Karnataka - Virtual Dr.Prabhanjankumar Associate Professor & HoD Dept. of Ophthalmology SVIMS-SPMCW Dr. V. Vijava Lakshmi	Member External expert Member

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Medicine

	Professor & Associate Dean (Research)		
	Dept of community medicine		
	SRMC, Chennai - Virtual		
13.	Dr. K. Umamaheswara Rao	Member	
	Professor & HoD		
	Dept. of Pharmacology		
	SVIMS-SPMCW, Tirupati		
14.	Dr. Ashalatha	External expert	
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	Dept. of Pathology		
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	Shanthi Ram Medical College		
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17,	Dr. B. Venkataramana	Member	·
	Professor & HoD		
	Dept. of Microbiology		
	SVIMS-SPMCW, Tirupati		
18	Dr. Animireddy Kishore	External expert	
	Professor, Dept. of Microbiology		
	Apollo Institute of Medical Sciences and		
	Research, Murakambattu, Chittoor - Virtual		
19.	Dr. K. Jyothi Prasad	Member	······
201	Professor & HoD, Dept. of Forensic Medicine		
	SVIMS-SPMCW, Tirupati		
20,	Dr. Kilari Bhaskar Md	External expert	
20,	Professor & Head	Laternar expert	
	Dept. of Forensic Medicine & Toxicology		
	Government Medical College, Eluru – Virtual		
	ooroniment theaten conegoj thata vittaat		
21.	Dr. J. Harikrishna	Member	
	Professor & HoD		
	Dept. of General Medicine		
	· · ·		
	SVIMS-SPMCW, Tirupati	DR-K-Pres	
22.	Dr. Ravi. K	External experience of MBB Professor of HED-Inte Bangalore Medical College	S. MR. EICA
	Professor Winter, dept. of Medicine	riviessor contraction inte	nal medicine
	Bangalore Medical College and Research Institute		
	Fort, K. R. Road, Bangalore – Virtual		
		K.M.C. Reg. No. 33	/13
23.	Dr. Y. Mutheeswaraiah	Member	
	Professor & HoD		
	Dept. of General Surgery		
	SVIMS-SPMCW, Tirupati		
	SVIMS-SPMCW, Tirupati		
24.	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS.,	External expert	
24.	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt.,	External expert	
24.	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS.,	External expert	
	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore		
24. 25.	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore Dr.J.Malathi	External expert Member	
	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore Dr.J.Malathi Professor & HoD		
	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW		
	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore Dr.J.Malathi Professor & HoD		
	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW Tirupati		
	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW Tirupati Dr. Keshava Gangadharan		
25.	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW Tirupati Dr. Keshava Gangadharan Professor & HoD,	Member	
25.	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW Tirupati Dr. Keshava Gangadharan	Member	
25.	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW Tirupati Dr. Keshava Gangadharan Professor & HoD,	Member	
25.	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW Tirupati Dr. Keshava Gangadharan Professor & HoD, Dept. of OBG PES Medical College, Kuppam - Virtual	Member	
25.	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW Tirupati Dr. Keshava Gangadharan Professor & HoD, Dept. of OBG PES Medical College, Kuppam - Virtual Dr.S.B.Amarnath	Member External expert	
25. ,26.	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW Tirupati Dr. Keshava Gangadharan Professor & HoD, Dept. of OBG PES Medical College, Kuppam - Virtual Dr.S.B.Amarnath Professor & HoD	Member	
25. ,26.	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW Tirupati Dr. Keshava Gangadharan Professor & HoD, Dept. of OBG PES Medical College, Kuppam - Virtual Dr.S.B.Amarnath	Member External expert	
25. ,26.	SVIMS-SPMCW, Tirupati Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW Tirupati Dr. Keshava Gangadharan Professor & HoD, Dept. of OBG PES Medical College, Kuppam - Virtual Dr.S.B.Amarnath Professor & HoD	Member External expert	

Gen. Surgery

	Professor & HoD DepLof OBG, SVIMS-SPMCW Tirupati	
24.	Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore Dr.J.Malathi	External expert
23.	Dr. Y. Mutheeswaraiah Professor & HoD Dept. of General Surgery SVIMS-SPMCW, Tirupati	Member
	Professor & Head, dept. of Medicine Bangalore Medical College and Research Institute Fort, K. R. Road, Bangalore – Virtual	External expert
21.	Dr. J. Harikrishna Professor & HoD Dept. of General Medicine SVIMS-SPMCW, Tirupati Dr. Ravi, K	Member
20.	Dr. Kilari Bhaskar Md Professor & Head Dept. of Forensic Medicine & Toxicology Government Medical College, Eluru – Virtual	External expert
19.	Dr. K. Jyothi Prasad Professor & HoD, Dept. of Forensic Medicine SVIMS-SPMCW, Tirupati	Member
18.	Dr. Animireddy Kishore Professor, Dept. of Microbiology Apollo Institute of Medical Sciences and Research, Murakambattu, Chittoor – Virtual	External expert
17.	Nandyal - Virtual	Member
16.	Professor & HoD Dept. of Pathology Shanthi Ram Medical College	External expert
15.	Professor & HoD Dept. of Pathology	Member
14	Dr. Ashalatha Professor & HoD Dept of Pharmacology	External expert
13	Dr. K. Umamaheswara Rao Professor & HoD Dept. of Pharmacology SVIMS-SPMCW, Tirupati	Member
12	SVIMS-SPMCW, Tirupati Dr. Pankaj B Shah Professor & Associate Dean (Research) Dept of community medicine SRMC, Chennai - Virtual	External expert

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SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES SVIMS- SRI PADMAVATHI MEDICAL COLLEGE FOR WOMEN::TIRUPATI

OBG

Minutes of the 3rd Board of Studies (3rd MBBS Part-II) Meeting held at College Council Hall, SVIMS-SPMCW on 30.07.2024 from 10 AM onwards.

Members of the Board of Studies:

1	Dr Alladi Mohan	Chairman
	Dean	
	SVIMS	
2	Dr.UshaKalawat	Member Secretary
3	Principal, SVIMS-SPMCW	Member
3	Dr. Aparna R. Bitla Registrar, SVIMS - Virtual	member.
4	Dr. V. Vanajakshamma	Member
T	Controller of Examinations	momber
	SVIMS	
5	Dr. J. Harikrishna	Member
	Professor & HoD	
	3 rd MBBS Part-II, Coordinator	
-	Dept. of General Medicine	
	SVIMS, Tirupati	
6	Dr. Ravi. K	External expert
	Professor & HoD, Dept. of Medicine	1
	Bangalore Medical College and Research Institute	
	Fort, K. R. Road, Bangalore - Virtual	
7	Dr. Y. Mutheeswaraiah	Member
	Professor & HoD	
	Dept. of General Surgery	
	SVIMS-SPMCW, Tirupati	
8	Dr. S. Nagamuneiah, MS.,	External expert
	Professor, Dept. of General Surgery,	-
	ACSR Govt., Medical College, Nellore	
9	Dr. J. Malathi	Member
	Professor & HoD	
	Dept.of OBG, SVIMS-SPMCW	
	Tirupati.	
10	Dr. Keshav Gangadharan	External expert
	Professor	l'alterne
	Dept. of OBG	fogeo.
	PES Medical College, Kuppam - Virtual	// /
11	Dr. S. B. Amarnath	Member/
	Professor & HoD	
	Dept. of ENT, SVIMS-SPMCW	
12	Dr. Ravi. D	External expert
	Professor & HoD, Dept. of ENT	
	Mandya Institute of Medical Sciences	·
	Mandya, Karnataka - Virtual	
13	Dr.Prabhanjankumar	Member
	Associate Professor & HoD	
	Dept. of Ophthalmology	
	SVIMS-SPMCW	

Paediatrics

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	·		
28.	Dr. Ravi. D Professor & HoD, Dept. of ENT Mandya Institute of Medical Sciences	External expert	
	Mandya, Karnataka - Virtual		
29.	Dr.Prabhanjankumar Associate Professor & HoD Dept. of Ophthalmology SVIMS-SPMCW	Member	
	Dr. V. Vijaya Lakshmi	External expert	
30.	Professor & HoD, Dept. of Ophthalmology Govt. Medical College, Guntur - Virtual	-	
31.	Dr. N. Punith Patak Professor & HoD Dept. of Pediatrics, SVIMS-SPMCW	Member	
32.	Dr.Vinayaka.G Professor & HoD Dept. of Paediatrics Subbaiah Institute of Medical sciences Shimuga - Virtual	External expert	-Je
33.	Dr. S. M. Venugopal Associate Professor & HoD Dept. of Orthopaedics SVIMS-SPMCW	Member	
34.	Dr Arun H S	External expert	
	Professor Dept. of Orthopaedics Sri Devaraj Urs Medical College, Tamaka Kolar - Virtual		
35.	Dr. Arpana Bhide	1 st MBBS	
	Professor Dept. of Physiology SVIMS-SPMCW	Co-coordinator	
36.	Dr. N. Rukmangadha	2 nd MBBS	
	Professor & HoD	Coordinator	
	Dept. of Pathology SVIMS-SPMCW, Tirupati		
37.	Dr. K. Nagaraj	Coordinator	
	Professor & HoD	3rd MBBS Part-I	
	Dept. of Community medicine		
	SVIMS-SPMCW, Tirupati		
38.	Dr. J. Harikrishna	3rd MBBS Part-II	
	Professor & HoD	Coordinator	
	Dept. of General Medicine	ļ	
	SVIMS-SPMCW, Tirupati		

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		External expert	I RA
28.	Dr. Ravi. D	Lintoi mar chip.	KR/
	Professor &HoD, Dept. of ENT		
	Mandya Institute of Medical Sciences		
	Mandya, Karnataka - Virtual	Member	
29.	Dr Prabhanjankumar	Member	
E	Associate Professor & HoD		
	Dept. of Ophthalmology		
	SVIMS-SPMCW		
	The TT Trierro Labehmi	External expert	
30.	Professor & HoD, Dept. of Ophthalmology		
	Govt. Medical College, Guntur - Virtual		
	Dr. N. PunithPatak	Member	
31.	Dr. N. PunithPalak		
	Professor & HOD		
	Dept. of Pediatrics, SVIMS-SPMCW	External expert	1
32.	Dr.Vinayaka.G		
	Professor & HoD		
	Dept. of Paediatrics		
	Subbaiah Institute of Medical sciences		
	Shimuga - Virtual	Member	
33.	Dr.S. M. Venugopal	Member	
55.	Associate Professor&HoD		
	Dept. of Orthopaedics		
	SVIMS-SPMCW	1	
	Dr Arun H S	External expert	
34.	Professor		
	Durt of Orthonaedics		
	Sri DevarajUrs Medical College, Tamaka		
	Sri Devarajors medicar ecesary		
	Kolar - Virtual	1 st MBBS	1
35.	Dr.ArpanaBhide	Co-coordinator	
	Professor		
	Dept. of Physiology		
	SVIMS-SPMCW	2 nd MBBS	-
36.	Dr. N. Rukmangadha	Coordinator	
50.	Professor & HoD	Coordinator	
	Dept. of Pathology	•	
	SVIMS-SPMCW, Tirupati		<u></u>
		Coordinator	
37.	Dr. K. Nagaraj	3rd MBBS Part-I	
	Professor&HoD	510 1.2	
	Dept. of Community medicine		
	SVIMS-SPMCW, Tirupati		
	DVIIVID-DLIVID III, Imergen	3rd MBBS Part-II	
38.	Dr.J. Harikrishna	Coordinator	
	Professor &HoD		
	Dept. of General Medicine		
	SVIMS-SPMCW, Tirupati		

1		OH	Halmology
	Mandya Institute of Medical Sciences		
29	Mandya, Karnataka - Virtual 9. Dr. Prabhanjankumar		
∠ ;	Associate Professor & HoD	Member	
	Dept. of Ophthalmology		
	SVIMS-SPMCW		
30	Dr. V. Vijava Lakshmi	External expert	
	Professor & HoD, Dept. of Ophthalmology	External expert	Moltimer - Call.
L	Govt. Medical College, Guntur - Virtual		V. Vijayalahton
31		Member	****
	Professor & HoD		
32.	Dept. of Pediatrics, SVIMS-SPMCW		
32.		External expert	
	Professor & HoD	*	
	Dept. of Paediatrics		
	Subbaiah Institute of Medical sciences Shimuga - Virtual		
33.	Dr. S. M. Venugopal		
	Associate Professor & HoD	Member	-
	Dept. of Orthopaedics		
	SVIMS-SPMCW		
34.	Dr Arun H S		
0.14	Professor	External expert	
	Dept. of Orthopaedics		
	Sri Devaraj Urs Medical College, Tamaka		
	Kolar - Virtual		
35.	Dr. Arpana Bhide	1 st MBBS	
	Professor	Co-coordinator	
	Dept. of Physiology	Co-coordinator	
	SVIMS-SPMCW		
36.	Dr. N. Rukmangadha	2 nd MBBS	
	Professor & HoD	Coordinator	
		coordinator	
	Dept. of Pathology		
	SVIMS-SPMCW, Tirupati		
37.	Dr. K. Nagaraj	Coordinator	
	Professor& HoD	3rd MBBS Part-I	
	Dept. of Community medicine	****	
	SVIMS-SPMCW, Tirupati		
38.	Dr. J. Harikrishna	3rd MBBS Part-II	*
	Professor & HoD	Coordinator	
	Dept. of General Medicine		
	Dept. Of General Medicine		
	SVIMS-SPMCW, Tirupati	I	

V. VijayalalvShri

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28.	Dr. Ravi. D Professor & HoD, Dept. of ENT Mandya Institute of Medical Sciences Mandya, Karnataka - Virtual	External expert	
29.	Dr.Prabhanjankumar Associate Professor & HoD Dept. of Ophthalmology SVIMS-SPMCW	Member	
30.	Dr. V. Vijaya Lakshmi Professor & HoD, Dept. of Ophthalmology Govt. Medical College, Guntur - Virtual	External expert	
31.	Dr. N. Punith Patak Professor & HoD Dept. of Pediatrics, SVIMS-SPMCW	Member	
32.	Dr.Vinayaka.G Professor & HoD Dept. of Paediatrics Subbaiah Institute of Medical sciences Shimuga - Virtual	External expert	
33.	Dr. S. M. Venugopal Associate Professor & HoD Dept. of Orthopaedics SVIMS-SPMCW	Member	
34.	Dr Arun H S Professor Dept. of Orthopaedics Sri Devaraj Urs Medical College, Tamaka Kolar - Virtual	External expert	DR. ARUN H.S. DR. ARUN H.S. KMC Reg. No. 4636 Professor & Unit Ch Professor & Orthopy Department of Orthopy R.L. Jalappa Hospi
35.	Dr. Arpana Bhide Professor Dept. of Physiology SVIMS-SPMCW	 st MBBS Co-coordinator 	Department of Officer R.L. Jalappa Hospi
36.	Dr. N. Rukmangadha Professor & HoD Dept. of Pathology SVIMS-SPMCW, Tirupati	2 nd MBBS Coordinator	
37,	Dr. K. Nagaraj Professor& HoD Dept. of Community medicine SVIMS-SPMCW, Tirupati	Coordinator 3rd MBBS Part-1	
38.	Dr. J. Harikrishna Professor & HoD Dept. of General Medicine SVIMS-SPMCW, Tirupati	3rd MBBS Part-II Coordinator	······································

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SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES SVIMS- SRI PADMAVATHI MEDICAL COLLEGE FOR WOMEN::TIRUPATI

Minutes of the 3rd Board of Studies (3rd MBBS Part-II) Meeting held at College Council Hall, SVIMS-SPMCW on 30.07.2024 from 10 AM onwards.

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Members of the Board of Studies:

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1	Dr Alladi Mohan	Chairman
-	Dean	
	SVIMS	
2	Dr.UshaKalawat	Member Secretary
	Principal, SVIMS-SPMCW	
3	Dr. Aparna R. Bitla	Member
4	Registrar, SVIMS - Virtual Dr. V. Vanajakshamma	Member
4	Controller of Examinations	Member
	SVIMS	
5	Dr. J. Harikrishna	Member
	Professor & HoD	
	3 rd MBBS Part-II, Coordinator	
	Dept. of General Medicine	
	SVIMS, Tirupati	
6	Dr. Ravi. K	External expert
-	Professor & HoD, Dept. of Medicine	
	Bangalore Medical College and Research Institute	
	Fort, K. R. Road, Bangalore - Virtual	
7	Dr. Y. Mutheeswaraiah	Member
•	Professor & HoD	
	Dept. of General Surgery	
	SVIMS-SPMCW, Tirupati	
8	Dr. S. Nagamuneiah, MS.,	External expert
	Professor, Dept. of General Surgery,	
	ACSR Govt., Medical College, Nellore	
9	Dr. J. Malathi	Member
	Professor & HoD	
	Dept.of OBG, SVIMS-SPMCW	
	Tirupati.	
10	Dr. Keshava Gangadharan	External expert
	Professor & HoD	
	Dept. of OBG	
11	PES Medical College, Kuppam - Virtual	
11	Dr. S. B. Amarnath	Member
	Professor & HoD	
10	Dept. of ENT, SVIMS-SPMCW	Protocol Incoment
12	Dr. Ravi. D	External expert
	Professor & HoD, Dept. of ENT	
	Mandya Institute of Medical Sciences	
12	Mandya, Karnataka - Virtual) Marine (
13	Dr.Prabhanjankumar	Member
	Associate Professor & HoD	
	Dept. of Ophthalmology	
	SVIMS-SPMCW	

14	Dr. V. Vijaya Lakshmi	External expert
	Professor & HoD, Dept. of Ophthalmology	*
	Govt. Medical College, Guntur - Virtual	
15	Dr. N. Punith Patak	Member
	Professor & HoD	
	Dept. of Paediatrics, SVIMS-SPMCW	
16	Dr.Vinayaka.G	External expert
	Professor & HoD	
	Dept. of Paediatrics	
,	Subbaiah Institute of Medical sciences	
	Shimoga - Virtual	
17	Dr. S. M. Venugopal	Member
	Associate Professor & HoD	
	Dept. of Orthopaedics	
	SVIMS-SPMCW	
18	Dr Arun H S	External expert
	Professor	
	Dept. of Orthopaedics	
	Sri Devaraj Urs Medical College, Tamaka	
	Kolar - Virtual	
19	Dr. Alok Samantaray	Member
	Professor & HoD	
	Department of Anaesthesiology	
	SVIMS-SPMCW	
20	Dr. B. Vijayalakshmi Devi	Member
	Professor & HoD	
	Department of Radiology	
	SVIMS-SPMCW	
21	Dr. A. Surekha	Member
	Associate Professor	
	Department of DVL	
	SVIMS-SPMCW	
22	Dr. M. Ganesh Kumar	Member
	Assistant Professor	
	Department of Psychiatry	
	SVIMS-SPMCW	

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SVIMS-SPMCW has conducted the 3rd Board of Studies (3rd MBBS Part-II) Meeting for approval of the Competent Based Medical Education Curriculum notified by NMC (UGMEB) vide No.U.14021/8/2023-UGMEB, dated, 01.08.2023 for implementation of the said regulations from the Academic Year 2023 onwards in SVIMS-Sri Padmavathi Medical College for Women of SVIMS University.

The Principal, SVIMS-SPMCW welcomed all the members and initiated the proceedings as per the agenda. The Members discussed the agenda in detail and resolved as mentioned below.

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<u>MINUTES OF THE MEETING</u> <u>Subject wise Curriculum – 3rd MBBS Part-II</u>

The Committee approved to implement Competent Based Medical Education Curriculum for MBBS course notified by NMC (UGMEB) vide No.U.14021/8/2023-UGMEB, dated, 01.08.2023 for the batches admitted in MBBS from the Academic year 2019-20 effective from the year 2023 onwards in SVIMS-SPMCW and to follow the guidelines notified by NMC from time to time.

Curriculum of 3rd MBBS Part-II Course:

- 1. General Medicine & Allied subjects (Psychiatry & DVL)
- 2. General Surgery & Allied subjects (Orthopaedics, Radiology & Anaesthesiology)
- 3. OBG
- 4. Paediatrics
- 5. ENT
- 6. Ophthalmology

Approved

Approved

Approved

Approved

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Approved

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Dr. J. Harikrishna Professor & HoD 3rd MBBS Part-II Coordinator Dept. of Medicine SVIMS, Tirupati Mail All actual Dr. Ravi. K Professor & HoD, Dept. of Medicine Bangalore Medical College and Research Institute Fort, K. R. Road, Bangalore.

Mutheeswaraiah Dr. Y. Professor & HoD Dept. of General Surgery SVIMS-SPMCW, Tirupati

Mail Altac Dr. S. Nagamuneiah, MS..

MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore

Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW Tirupati.

Dr. J. MALATEL MESS.MS.FMAS.DRM PROFESSION, I/C HOD DEPARTMENT OF OBG SVIMS-SPMCW, APMC-104315

10) Al

Dr. Keshava Gangadharan Professor & HoD, Dept. of OBG PES Medical College, Kuppam

Dr. N. Punith Patak Professor & HoD Dept. of Pediatrics, SVIMS-SPMCW

Mail Altached

Dr.Vinayaka.G Professor & HoD Dept. of Pediatrics Subbaiah Institute of Medical sciences, Shimuga

Dr.S.B.Amarnath Professor & HoD Dept. of ENT, SVIMS-SPMCW

Dr.Venugopal Associate Professor & HoD Dept. of Orthopaedics SVIMS-SPMCW

Dr. A. Surekha Associate Professor Department of DVL SVIMS-SPMCW

Dr Aparna R Bitla Registrar, SVIMS

Mail Attached.

Dr. Ravi. D Professor & HoD Dept. of ENT Mandya Institute of Medical Sciences Mandya, Karnataka

mail Altacho.

Dr Arun H S Professor Dept. of Orthopaedics Sri Devaraj Urs Medical College, Tamaka, Kolar

P. Prashanjan

Dr.Prabhanjan kumar Associate Professor & HoD Dept. of Ophthalmology SVIMS-SPMCW

Mail Dr. V. Vijaya Lakshmi Professor & HoD, Dept. of Ophthalmology Govt. Medical College, Guntur

Dr. Aloka Samantara

Dr. Alok Samantaray Professor & HoD Department of Anaesthesiology SVIMS-SPMCW

shaKalawat

Principal

SVIMS-SPMCW

Dr.

Devi Professor & HoD Department of Radiology SVIMS-SPMCW

Dr. B. Vijayalakshmi

Dr V. Vanajakshamma, Controller of Examinations SVIMS

Dr. M. Ganesh Kumar Assistant Professor Department of Psychiatry SVIMS-SPMCW

Dr Alladi Mohan Dean **SVIMS**

Dr. Levi Gr. Mediscine

MINUTES OF THE MEETING Subject wise Curriculum – 3rd MBBS Part-II

The Committee approved to implement Competent Based Medical Education Curriculum for MBBS course notified by NMC (UGMEB) vide No.U.14021/8/2023-UGMEB, dated, 01.08.2023 for the batches admitted in MBBS from the Academic year 2019-20 effective from the year 2023 onwards in SVIMS-SPMCW and to follow the guidelines notified by NMC from time to time.

Curriculum of 3rd MBBS Part-II Course:

 General Medicine & Allied subjects (Psychiatry & DVL) 	Approved
2. General Surgery & Allied subjects (Orthopaedics, Radiology & Anaesthesiology)	Approved
3. OBG	Approved
4. Paediatrics	Approved
5. ENT	Approved
6. Ophthalmology	Approved

Dr. J. HarikrishnaDR. K. ROVDMREYMK FICP 3rd MBBS Part-II Bangalore Medical College & Research Institute Dept. of General Surgery Coordinator K.M.C. RBangalore Medical SVIMS-SPMCW, Tirupati SVIMS, Tirupati Institute Fort, K. R. Road,

Dr. Y. Mutheeswaraiah SVIMS-SPMCW, Tirupati

Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore

Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW Tirupati.

Dr. Keshava Gangadharan Professor & HoD, Dept. of OBG PES Medical College, Kuppam

Bangalore.

Dr. N. Punith Patak Professor & HoD Dept. of Pediatrics, SVIMS-SPMCW

Dr.Vinayaka.G Professor & HoD Dept. of Pediatrics Subbaiah Institute of Medical sciences. Shimuga

MINUTLES OF THE MEETING Subject wise Curriculum - 3rd MBBS Part-II Dr. NQ99 MU We law

The Committee approved to implement Competent Based Medical Education Curriculum for MBBS course notified by NMC (UGMI/B) vide No.U 14021/8/2023-UGMFB, dated, 01 08:2023 for the batches admitted in MBBS from the Academic year 2019-20 effective from the year 2023 onwards in SVIMS-SPMCW and to follow the guidelines notified by NMC from time to time.

Curriculum of 3rd MBBS Part-II Course;

I.	General Medicine & Allied subjects (Psychiatry & DVL)	<u>Ápproved</u>
2.	General Surgery & Allied subjects (Orthopaedics, Radiology & Annesthesiology)	Approved
3.	OBG	Approved
4.	Paediatries	Approved
5.	ENT	Approved
6.	Ophthalmology	Approved

Dr. J. Harikrishna Professor & HoD 3rd MBBS Part-II Coordinator Dept. of Medicine SVIMS, Tirupati

Dr. Rnvi. K Professor & HoD. Dept. of Medicine **Bangalore Medical** College and Research Institute Fort, K. R. Road, Bangalore.

Dr. Y. Mutheeswaraiah Professor & HoJ) Dept, of General Surgery SVIMS-SPMCW, Tirupati

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Dr. S. Nagamuneiah, MS. Professor, Dept. of General Surgery, ACSR Govt . Medical College, Nellore

Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW Tirupati.

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Dr. Keshava Gangadharan Professor & HoD, Dept. of OBG PES Medical College, Kuppam

Dr. N. Punith Patak Professor & HoD Dept. of Pediatrics, SVIMS-SPMCW

Dr.Vinayaka.G Professor & HoD Dept. of Pediatrics Subbaiah Institute of Medical sciences, Shimuga

OBG. Dr. Kesavas Ganga Sharan

MINUTES OF THE MEETING Subject wise Curriculum - 3rd MBBS Part-II

The Committee approved to implement Competent Based Medical Education Curriculum for MBBS course notified by NMC (UGMEB) vide No.U.14021/8/2023-UGMEB, dated, 01.08.2023 for the batches admitted in MBBS from the Academic year 2019-20 effective from the year 2023 onwards in SVIMS-SPMCW and to follow the guidelines notified by NMC from time to time.

Curriculum of 3rd MBBS Part-II Course:

1. General Medicine & Allied subjects (Psychiatry & DVL)	Approved
2. General Surgery & Allied subjects (Orthopaedics, Radiology & Anaesthesiology)	Approved
3. OBG	Approved
4. Paediatrics	Approved
5. ENT	Approved
6. Ophthalmology	Approved

Dr. J. Harikrishna Professor & HoD 3rd MBBS Part-II Coordinator Dept. of Medicine SVIMS, Tirupati

Dr. Ravi. K Professor & HoD, Dept. of Medicine) Bangalore Medical /College and Research Institute Fort, K. R. Road, Bangalore.

Dr. Y. Mutheeswaraiah Professor & HoD Dept. of General Surgery SVIMS-SPMCW, Tirupati

Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore

Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW Tirupati.

Dr. Keshava Gangaddaran Professor & HoD, Dept. of OBG PES Medical College, Kuppam

Dr. N. Punith Patak Professor & HoD Dept. of Pediatrics, SVIMS-SPMCW

Dr.Vinayaka.G Professor & HoD Dept. of Pediatrics Subbaiah Institute of Medical sciences, Shimuga

MINUTES OF THE MEETING Dut . Pachiatry Subject wise Curriculum - 3rd MBBS Part-II

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The Committee approved to implement Competent Based Medical Education Curriculum for MBBS course notified by NMC (UGMEB) vide No.U.14021/8/2023-UGMEB, dated, 01.08.2023 for the batches admitted in MBBS from the Academic year 2019-20 effective from the year 2023 onwards in SVIMS-SPMCW and to follow the guidelines notified by NMC from time to time.

Curriculum of 3rd MBBS Part-II Course:

1.	General Medicine & Allied subjects (Psychiatry & DVL)	Approved
2.	General Surgery & Allied subjects (Orthopaedics, Radiology & Anaesthesiology)	<u>Approved</u>
3.	OBG	Approved
4.	Paediatrics	Approved
5.	ENT	Approved
6.	Ophthalmology	Approved

Dr. J. Harikrishna Professor & HoD 3rd MBBS Part-II Coordinator Dept. of Medicine SVIMS, Tirupati Dr. Ravi. K Professor & HoD, Dept. of Medicine Bangalore Medical College and Research Institute Fort, K. R. Road, Bangalore. Dr. Y. Mutheeswaraiah Professor & HoD Dept. of General Surgery SVIMS-SPMCW, Tirupati

Dr. S. Nagamuneiah, MS., Professor, Dept. of General Surgery, ACSR Govt., Medical College, Nellore

Dr. Vinayaka

Dr.J.Malathi Professor & HoD Dept.of OBG, SVIMS-SPMCW Tirupati. Dr. Keshava Gangadharan Professor & HoD, Dept. of OBG PES Medical College, Kuppam Dr. N. Punith Patak Professor & HoD Dept. of Pediatrics, SVIMS-SPMCW

Dr. Vindyaka.G Professor & HoD Dept. of Pediatrics Subbaiah Institute of Medical sciences, Shimuga

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SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES SVIMS- SRI PADMAVATHI MEDICAL COLLEGE FOR WOMEN::TIRUPATI

Minutes of the 3rdBoard of Studies(3rdMBBS Part-II)Meeting held at College Council Hall, SVIMS-SPMCW on30.07.2024 from 10 AM onwards.

Members of the Board of Studies:

1	Dr Alladi Mohan	Chairman
	Dean	
	SVIMS	
2	Dr.UshaKalawat	Member Secretary
	Principal, SVIMS-SPMCW	Member
3	Dr.Aparna R. Bitla Registrar, SVIMS - Virtual	Member
4	Dr. V. Vanajakshamma	Member
4	Controller of Examinations	member
	SVIMS	
5	Dr.J. Harikrishna	Member
-	Professor & HoD	
	3 rd MBBS Part-II, Coordinator	
	Dept. of General Medicine	
	SVIMS, Tirupati	
6	Dr. Ravi. K	External expert
5	Professor & HoD, Dept. of Medicine	-
	Bangalore Medical College and Research Institute	
	Fort, K. R. Road, Bangalore - Virtual	
7	Dr. Y. Mutheeswaraiah	Member
1	Professor &HoD	
	Dept. of General Surgery	
	SVIMS-SPMCW, Tirupati	
8	Dr. S. Nagamuneiah, MS.,	External expert
U	Professor, Dept. of General Surgery,	-
	ACSR Govt., Medical College, Nellore	
9	Dr.J.Malathi	Member
1	Professor &HoD	
	Dept.of OBG, SVIMS-SPMCW	
	Tirupati.	
10	Dr.KeshavaGangadharan	External expert
10	Professor & HoD	
	Dept. of OBG	
	PES Medical College, Kuppam - Virtual	
11	Dr.S.B.Amarnath	Member
	Professor & HoD	
	Dept. of ENT, SVIMS-SPMCW	
12	Dr. Ravi. D	External expert
1.00	Professor & HoD, Dept. of ENT	1 122 -
l	Mandya Institute of Medical Sciences	I PN-
	Mandya, Karnataka - Virtual	
13	Dr.Prabhanjankumar	Member
13	Associate Professor &HoD	
	Dept. of Ophthalmology	
1	SVIMS-SPMCW	

Dr.S.B.Amarnath Professor & HoD Dept. of ENT, SVIMS-SPMCW

Dr. Ravi. D Professor & HoD Dept. of ENT Mandya Institute of Medical Sciences Mandya, Karnataka

Dr.Prabhanjankumar Associate Professor & HoD Dept. of Ophthalmology SVIMS-SPMCW V V Flayfalalyhn Dr. V. Vijaya Lakshmi Professor & HoD, Dept. of Ophthalmology Govt. Medical College, Guntur

Dr.Venugopal Associate Professor & HoD Dept. of Orthopaedics SVIMS-SPMCW

Dr Arun H S Professor Dept. of Orthopaedics Sri Devaraf Urs Medical College, Tamaka, Kolar

Dr. Alok Samantaray Professor & HoD Department of Anaesthesiology SVIMS-SPMCW

Dr. B. Vijayalakshmi Devi Professor & HoD Department of Radiology SVIMS-SPMCW

Dr. A. Surekha Associate Professor Department of DVL SVIMS-SPMCW

Dr. M. Ganesh Kumar Assistant Professor Department of Psychiatry SVIMS-SPMCW

Dr.UshaKalawat Principal SVIMS-SPMCW

Dr V. Vanajakshamma, Controller of Examinations SVIMS

Dr Aparna R Bitla Registrār, SVIMS

Dr Alladi Mohan Dean SVIMS

Dr. Vio'ayalaks mi oph thalmology

ortho. Dr. Aruw

Dr.S.B.Amarnath Professor & HoD Dept. of ENT, SVIMS-SPMCW

Dr.Venugopal Associate Professor & HoD Dept. of Orthopaedics SVIMS-SPMCW Dr. Ravi. D Professor & HoD Dept. of ENT Mandya Institute of Medical Sciences Mandya, Karnataka Dr.Prabhanjankumar Associate Professor & HoD Dept. of Ophthalmology SVIMS-SPMCW Dr. V. Vijaya Lakshmi Professor & HoD, Dept. of Ophthalmology Govt. Medical College, Guntur

Dept. Of software for software

Dr. Alok Samantaray Professor & HoD Department of Anaesthesiology SVIMS-SPMCW Dr. B. Vijayalakshmi Devi Professor & HoD Department of Radiology SVIMS-SPMCW

Dr. A. Surekha Associate Professor Department of DVL SVIMS-SPMCW Dr. M. Ganesh Kumar Assistant Professor Department of Psychiatry SVIMS-SPMCW Dr.UshaKalawat Principal SVIMS-SPMCW Dr V. Vanajakshamma, Controller of Examinations SVIMS

Dr Aparna R Bitla Registrar, SVIMS Dr Alladi Mohan Dean SVIMS