

Program Specific Learning Outcome

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Programme Learning Outcomes for MBBS

At the end of the MBBS program, student shall be able to

1. Diagnose common clinical conditions in medical practice
2. Rational use of diagnostic tools
3. Prescribe drugs rationally
4. Use blood and blood products judiciously
5. Manage all types of emergencies at primary level
6. Render services to chronically sick and disabled (both physical & mental)
7. Able to communicate effectively to the patients and relatives
8. Maintain professional secrecy wherever needed
9. Acquire knowledge about the various national health schemes and program
10. Find out health needs of the society.
11. Develop leadership qualities to function effectively as a leader of Health care system




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Graduate Attributes to be nurtured during MBBS course

1. Academic excellence
2. Good Clinical skills and expertise
3. Analytical skills and clinical competencies
4. Presence of mind and proper decision making
5. Research attributes
6. Community service
7. Leadership qualities
8. High regards and respect for human rights and ethics
9. Realization of social responsibilities
10. Cultural humility and inclusivity




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Assessment methods for Interns

The interns are expected to maintain the log book during their tenure.

Based on the record of the work, students are graded with the score from 0-5 on five point Likert scale. (0-poor, 1- below average, 2-fair, 3-average, 4-above average, 5-excellent)

A Score of less than 3 in any of above items will represent unsatisfactory completion of the tenure Students will get scoring under following headings;

1. Proficiency of knowledge required for each case.
2. The competency skills expected to manage case, work up of case, involvement in treatment, follow up reports,
3. Responsibility, punctuality, work up of case, involvement in treatment, follow-up reports
4. Capacity to work in a team (Behaviour with colleagues, nursing staff and relationship with paramedical staff).
5. Initiative, participation in discussions, research aptitude.




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For Post Graduate

The competency in skills expected to attain

- A) Competency for performance of self-performance,**
- B) Competency of having observed,**
- C) Competency in having assisted the procedure**
- D) Competency in performing the procedures independently**

Post graduate students have to appear for end of tenure examination where they are assessed for their knowledge (theory and practical)





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Under Graduate

Phase I


PROGRAM SPECIFIC LEARNING OUTCOME – I MBBS (ANATOMY)

Sr.no	Learning outcome Knowledge	Assessment	Activity
1.	Describe the anatomy of female reproductive system, correlate the gross, microscopic and embryological aspects and their clinical significance	<ul style="list-style-type: none"> • Draw & label test • Formative assessment on Google Classroom – scenario based MCQ • Part completion test theory & practical's • MCQ, BAQ, SAQ & LAQ • Summative assessment 	<ul style="list-style-type: none"> • Lectures • Early clinical exposure • Demonstrations • Self directed learning • Seminar The Tubes
2.	Describe and discuss the structural & functional correlation of Microscopic anatomy of gastrointestinal tract.	<ul style="list-style-type: none"> • Draw & label test • Formative assessment on Google Classroom scenario based MCQ • Part completion test • Weekly Spots • MCQ, BAQ & SAQ • Summative assessment 	<ul style="list-style-type: none"> • Lectures • Briefing & demonstration on projecting microscope • Weekly histology practicals • Weekly histology quiz
3.	Describe the brachial plexus Formation, its branches and applied aspect. Describe the root value course & relations of nerves of upper limb and discuss the anatomical basis of nerve injuries.	<ul style="list-style-type: none"> • Formative assessment on Google Classroom • Part completion test -- MCQ, BAQ, SAQ & LAQ • OSPE • Summative assessment 	<ul style="list-style-type: none"> • Lectures • Team learning • Problem based learning • Briefing & demonstration • Seminar Nerve injuries


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4.	Describe the Morphology, Lymphatic drainage, Blood supply and applied anatomy of Mammary gland. Discuss the microscopic structure of lactating and nonlactating mammary gland.	<ul style="list-style-type: none"> • Formative assessment on Google Classroom • Short answer question test • Draw & label test • Part completion test -- MCQ, BAQ, SAQ & LAQ • OSPE • Summative assessment 	<ul style="list-style-type: none"> • Lectures • Problem based learning • Early clinical exposure
5.	Describe the parts, attachments, ossification & applied aspect of bones of the Superior Extremity.	<ul style="list-style-type: none"> • Osteology test • Part completion osteology viva • OSPE • Summative assessment 	<ul style="list-style-type: none"> • LCD • Small group teaching & Demonstration • Self directed learning

Sr.no	Learning outcome Knowledge	Assessment	Activity
6.	Describe the anatomy of Pluera, correlate the grossand embryological aspects and their clinical significance	<ul style="list-style-type: none"> • Draw & label test • Formative assessment on Google Classroom • MCQ, BAQ, SAQ • OSPE • Summative assessment 	<ul style="list-style-type: none"> • Lectures • Early clinical exposure • Problem based learning •
7.	Describe and discuss theVeins of the inferior extremity . Discuss the varicose veins and its anatomical basis	<ul style="list-style-type: none"> • Formative assessment on Google Classroom • BAQ , SAQ & LAQ • OSPE • Summative assessment 	<ul style="list-style-type: none"> • Lectures • Early clinical exposure • Problem based learning
8.	Describe & discuss the Anterior abdominal wall ,its layers , modifications & surgical anatomy. Describe the Inguinal canal and discuss the anatomical basis of inguinal hernia.	<ul style="list-style-type: none"> • Formative assessment on Google Classroom • Part completion test • OSPE • Summative assessment 	<ul style="list-style-type: none"> • Lectures • Problem based learning • Early clinical exposure • Dissection & demonstration


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9.	Describe & discuss the development of Pharyngeal arches & face. Discuss the embryological basis of developmental anomalies of face & pharyngeal arches.	<ul style="list-style-type: none"> • Formative assessment on Google Classroom • Short answer question test • Draw & label test • MCQ, SAQ & BAQ 	<ul style="list-style-type: none"> • Lectures • Problem based learning • Embryology model discussion - SGT
10.	Describe & Discuss the gross features, Blood supply & embryology of heart. Discuss the anatomical basis of cardiovascular disease.	<ul style="list-style-type: none"> • Formative assessment on Google Classroom • Short answer question test • Draw & label test • MCQ, SAQ & BAQ 	<ul style="list-style-type: none"> • Lectures • Problem based learning • Early clinical exposure • Dissection & demonstration • Embryology model discussion - SGT

Sr.no	Learning outcome Skill	Assessment	Activity
1.	Describe the living anatomy of superior extremity & its clinical correlations.	<ul style="list-style-type: none"> • Viva • OSPE 	<ul style="list-style-type: none"> • LCD • Demo • SGT • SDL
2.	Describe and discuss specimens of Head Neck & Face region – Larynx, Pharynx, Tongue, Triangles of neck, Sagittal sections of head & neck	<ul style="list-style-type: none"> • Formative assessment on Google Classroom • BAQ, SAQ & LAQ • OSPE • Viva 	<ul style="list-style-type: none"> • Lectures • LCD • Team learning activity • Early clinical exposure • Problem based learning • Demo • Dissection • SGT • SDL


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PROGRAM SPECIFIC LEARNING OUTCOME – I MBBS (PHYSIOLOGY)

Sr.No	Learning Outcome	Learning Domain	Teaching Learning Methods	Assessment Methods
1	Describe the role various organs and organ systems in normal human body for maintaining homeostasis	Cognitive	Lectures, Small group discussions, Seminars.	Formative and Summative assessment. MCQ, BAQ, SAQ, LAQ & VIVA
2	Describe the pathophysiology of various diseases which occur due to failure of homeostatic mechanisms.	Cognitive	Lectures, Small group discussions, Seminars.	Formative and Summative assessment. MCQ, BAQ, SAQ, LAQ & VIVA
3	Explain the physiological basis of management of disease conditions which occurs due to failure of homeostatic mechanisms	Cognitive	Lectures, Small group discussions, Seminars.	Formative and Summative assessment. MCQ, BAQ, SAQ, LAQ & VIVA
4	Perform the various basic haematological investigations and interpret the normal findings	Cognitive & Psychomotor	DOAP, Small group discussions.	Practical examination, OSPE & VIVA
5	Perform and interpret the findings of clinical examination on normal human volunteers	Cognitive, Psychomotor & Communication skills	DOAP, Small group discussions.	Practical examination, OSPE & VIVA
6	Perform and interpret the findings of various investigations like, ECG, Spirometry, Stethography. Ergography etc. on normal human volunteers.	Cognitive, Psychomotor & Communication skills	DOAP, Small group discussions	Practical examination, OSPE & VIVA
7	Interpret the findings of experiments on amphibian heart and nerve muscle using graphs and charts	Cognitive	Small group discussions	OSPE & VIVA
8	Perform the Basic Life Support effectively on manikin	Cognitive & Psychomotor skills	DOAP, Small group discussions	Practical examination, OSPE & VIVA



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PROGRAM SPECIFIC LEARNING OUTCOME- I MBBS (BIOCHEMISTRY)

Learning Outcome Knowledge	Assessment	Activity
1. Explain the Biochemical basis of life	<ul style="list-style-type: none"> Formative & Summative examination, comprising of MCQ,BAQ,SAQ & LAQ 	<ul style="list-style-type: none"> Lectures Seminars Practicals Small group discussion
2. Describe the overview of different metabolism	<ul style="list-style-type: none"> Formative & Summative examination, comprising of MCQ,BAQ,SAQ & LAQ Viva Log book 	<ul style="list-style-type: none"> Lectures Practicals Tutorials
3. Nutrition – Clinical significance	<ul style="list-style-type: none"> Formative & Summative examination comprising of MCQ,BAQ,SAQ & LAQ Viva Practical examination OSPE 	<ul style="list-style-type: none"> Small group learning & teaching Problem based discussion
4. Understanding of molecular biology	<ul style="list-style-type: none"> Formative & Summative examination, comprising of MCQ,BAQ,SAQ & LAQ 	<ul style="list-style-type: none"> Lectures Case based discussion Tutorials
5. Advance biochemistry and their role in diagnosis and management	<ul style="list-style-type: none"> Formative & Summative examination, comprising of MCQ,BAQ,SAQ & LAQ OSPE 	<ul style="list-style-type: none"> Lectures Seminars by students Case based discussion
Skills		
1. Biochemical lab investigation	<ul style="list-style-type: none"> Practical examination Log book 	<ul style="list-style-type: none"> Small group learning and demonstration of procedure DOAP
2. Collection & storage of different biological fluids. Exposure to biomedical waste & quality control in labs	<ul style="list-style-type: none"> Pre and post MCQ test OSPE 	<ul style="list-style-type: none"> Case based discussion and interpretation of clinical scenario and lab tests
3. Qualitative and quantitative experiments	<ul style="list-style-type: none"> Practical examination and viva 	<ul style="list-style-type: none"> Demonstration of various tests and student performing

		under supervision
4. Perform simple bedside tests on blood, urine and other biological fluid samples.	<ul style="list-style-type: none">• Practical examination• Log book	<ul style="list-style-type: none">• Small group learning on various biological samples.
5. Exposure to various instruments CCL	<ul style="list-style-type: none">• Formative & Summative examination, comprising of MCQ,BAQ,SAQ & LAQ• Viva	<ul style="list-style-type: none">• Lectures• Integration with other departments

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Phase II

PROGRAM SPECIFIC LEARNING OUTCOME- II MBBS (PHARMACOLOGY)

Learning Outcome Knowledge	Assessment	Activity
Describe Absorption, distribution, Metabolism, Excretion of drugs	<ul style="list-style-type: none"> • Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> • Lectures • Seminars • Small group discussion
Describe principles of Pharmacovigilance & ADR reporting systems	<ul style="list-style-type: none"> • Formative & Summative examination comprising of MCQ, BAQ, SAQ & LAQ • Viva • Practical examination • OSPE 	<ul style="list-style-type: none"> • Small group learning • practical
Describe the mechanisms of action, types, doses, side effects, indications and contraindications of antihypertensive drugs and drugs used in shock	<ul style="list-style-type: none"> • Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> • Lectures • Case based discussion • Tutorials
<p>4. Describe the mechanisms of action, types, doses, side effects, indications and contraindications of drugs used in hematological disorders like:</p> <ol style="list-style-type: none"> 1. Drugs used in anemias 2. Colony stimulating factors 	<ul style="list-style-type: none"> • Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> • Lectures • Seminars by students • Case based discussion
Describe the mechanism of action, types, doses, side effects, indications and contraindications of the drugs used in malaria, amebiasis and intestinal helminthiasis	Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ	<ul style="list-style-type: none"> • Lectures • Case based discussion • Tutorials
Skills		
Demonstrate understanding of the use of various dosage forms (oral/local/ parenteral: solid/liquid)	<ul style="list-style-type: none"> • Skill assessment 	<ul style="list-style-type: none"> • Small group learning • DOAP session

Prepare oral rehydration solution from ORS packet and explain its use.	<ul style="list-style-type: none"> • Skill assessment 	<ul style="list-style-type: none"> • Small group learning • DOAP session
Perform a critical evaluation of the drug promotional	<ul style="list-style-type: none"> • OSPE 	<ul style="list-style-type: none"> • Small group learning
Literature		
Communicate with the patient with empathy and ethics on all aspects of drug use	<ul style="list-style-type: none"> • Skill station 	<ul style="list-style-type: none"> • Small group learning.
Administer drugs through various routes in a simulated environment using mannequins	<ul style="list-style-type: none"> • Skill assessment 	<ul style="list-style-type: none"> • DOAP session •



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PROGRAM SPECIFIC LEARNING OUTCOME- II MBBS (FMT)

Sr.No	Learning Outcome Knowledge	Assessment	Activity
1	Comprehend the Criminal Administration Justice System & Medical Jurisprudence.	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ	- Lecture - Seminar - SDL
2	Know Medico Legal Duties of a Registered Medical Practitioner.	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ	- Lecture - Seminar - Tutorials
3	Be competent to examine and prepare report or certificate in medico legal cases/situations in accordance with the law of Land.	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ	- Lecture - Seminar Case based scenario & Casualty posting
4	Acquaint with procedure of medico legal postmortem examination and interpret findings and results of other relevant investigations to logically conclude the cause, and relevant opinion	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ	- Lecture - Seminar - Case based scenario
5	Inculcate principles of Bioethics medical ethics, etiquette, duties, rights, medical negligence and legal responsibilities of RMP, towards patient, profession, society, state and humanity.	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ	- Lecture - Seminar - Case based scenario - Role Play
6	To be conversant with provisions of MTP Act, 1971 with latest Amendments 2021, The POCSO Act, 2012, Amended Criminal Procedure Act with respect to Offences perpetrated on young girls, women with reference to harassment at work place.	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ	- Lecture - Seminar - SDL - Case based scenario - Role Play


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Skills:			
1	Grasp minutely facts and arrive at logical inferences so as to assist Investigating Officers.	Practical examination Assessment of skills like Age assessment, Injury Report, Weapon report	Small group discussion Actual observation of PM examination & Casualty posting
2	Diagnose and treat common emergencies in poisoning and manage chronic toxicity.	Practical examination Eg: Alcohol Intoxication case	Case based discussion and interpretation of toxicology test
3	Medico legal autopsy examination	Viva , SAQ, LAQ	Practical Observation of Medico Legal autopsy & Videos of autopsy
4	Observe the principles of Bio Ethics & Medical Ethics	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ	SDL Small Group Discussion Role Plays
5	Proper collection , preservation ,labeling and sealing of trace elements ,specimens collected at PM examination or examination of victim or accused	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ Viva	Actual demonstration of Packing, labeling, sealing of such material

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PROGRAM SPECIFIC LEARNING OUTCOME- II MBBS (MICROBIOLOGY)

Learning Outcome Knowledge	Assessment	Activity
State the etiology, pathogenesis and methods of laboratory diagnosis and apply that knowledge in the diagnosis, treatment, prevention and control of communicable diseases caused by microorganisms.	<ul style="list-style-type: none"> Formative & Summative examination, comprising of MCQs, BAQs, SAQs & LAQs Viva - QSPE	<ul style="list-style-type: none"> Lectures Seminars Practicals Small group discussion Seminars
Understand commensal, opportunistic and pathogenic organisms of human body and describe host parasite relationship.	<ul style="list-style-type: none"> Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ Viva- QSPE 	<ul style="list-style-type: none"> Lectures Small group discussion Seminars Tutorials
Know and describe the pathogenesis of diseases caused by microorganisms.	<ul style="list-style-type: none"> Formative & Summative examination, comprising BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> Lectures Seminars
State the sources and modes of transmission of pathogenic and opportunistic micro-organisms including knowledge of insect vectors & their role in transmission of infectious diseases.	<ul style="list-style-type: none"> Formative & Summative examination, comprising MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> Lectures Small group discussion Tutorials
Choose appropriate laboratory investigations required for clinical diagnosis	<ul style="list-style-type: none"> Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ Viva Choose appropriate culture media/metrical for cultivation of micro organism 	<ul style="list-style-type: none"> Practicals Small group discussion Tutorials

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Skills		
Plan and interpret laboratory investigations for diagnosis of infectious diseases and correlate the clinical manifestations with the etiological agent.	<ul style="list-style-type: none"> • Gram Staining • ZN staining • OSPE, Viva 	<ul style="list-style-type: none"> • Small group Teaching • DOAP • Practical demonstration
Identify common infectious agents with the help of laboratory procedure, acquire knowledge of antimicrobial agents, use of antimicrobial sensitivity tests to select suitable antimicrobial agents for treatment.	<ul style="list-style-type: none"> • Special staining • Culture methods • Biochemical reactions • ABST- Viva 	<ul style="list-style-type: none"> • Small group learning • Demonstration • Case based discussion and interpretation of clinical scenario and lab tests
Perform simple laboratory tests, which help to arrive at rapid diagnosis.	<ul style="list-style-type: none"> • Gram stain & ZN stain • stool exam, KoH munt • serological rapid tests • Practical examination and viva 	<ul style="list-style-type: none"> • Small group learning, teaching & demonstration • Interpretation of result- DOAP
Be conversant with proper methods of collection, storage & transport of clinical material for microbiological investigations.	MCQ Viva	<ul style="list-style-type: none"> • Small group learning & demonstration
Understand the principles of immunology and its application in the diagnosis and prevention of infectious diseases including immunization schedule, acquire knowledge of the scope of immunotherapy and different vaccines available for the prevention of communicable diseases.	<ul style="list-style-type: none"> • SAQS, MCQs • Viva 	<ul style="list-style-type: none"> • Small group learning & demonstration
Understand methods of disinfection and sterilization and their application to control and prevent hospital and community acquired infections including universal biosafety precautions and waste disposal	<ul style="list-style-type: none"> • SAQS, MCQs • Viva • 	<ul style="list-style-type: none"> • Small group learning • Laboratory CSSD and Hospital visits
Recommend laboratory investigations regarding bacteriological examination of food, water, milk and air.	<ul style="list-style-type: none"> • Viva 	<ul style="list-style-type: none"> • Visit to Laboratory testing food, water, milk,

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<p>8. The student should be well equipped with the knowledge of prevalent communicable diseases of national importance and of the newer emerging pathogens</p>	<ul style="list-style-type: none">• Viva	<ul style="list-style-type: none">• Small group learning• Seminars
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PROGRAM SPECIFIC LEARNING OUTCOME- II MBBS (PATHOLOGY)

Learning Outcome	Assessment	Activity
Knowledge Explain the Patho physiological processes which governs the maintenance of homeostasis, mechanism of their disturbances and the morphological and clinical manifestation associated with it.	<ul style="list-style-type: none"> Formative & Summative assessment, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> Lectures Seminars Practicals Small group discussion
Describe the mechanisms and patterns of tissue response to injury to appreciate the Pathophysiology of disease processes and their clinical manifestations	<ul style="list-style-type: none"> Formative & Summative assessment, comprising of MCQ, BAQ, SAQ & LAQ Viva 	<ul style="list-style-type: none"> Lectures Practicals Tutorials
Correlate the gross and microscopic alterations of different organ systems in common diseases to the extent needed to understand disease processes and their clinical significance..	<ul style="list-style-type: none"> Formative & Summative assessment comprising of MCQ, BAQ, SAQ & LAQ Viva Practical examination OSPE 	<ul style="list-style-type: none"> Small group learning of specimens and histopathology slides Weekly practicals
Develop an understanding of neoplastic change in the body in order to appreciate need for early diagnosis and further management of neoplasia	<ul style="list-style-type: none"> Formative & Summative assessment, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> Lectures Case based discussion Tutorials
Understand mechanisms of common haematological disorders and develop a logical approach in their diagnosis and management.	<ul style="list-style-type: none"> Formative & Summative assessment, comprising of MCQ, BAQ, SAQ & LAQ OSPE Hemogram interpretation Clinical tray viva 	<ul style="list-style-type: none"> Lectures Seminars by students Case based discussion
Skills		
Demonstrate & perform various haematological & clinical pathological diagnostic laboratory tests	<ul style="list-style-type: none"> Practical examination 	<ul style="list-style-type: none"> Small group learning and demonstration of procedure DOAP

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Interpret diagnostic laboratory tests and correlate with clinical and morphological features of diseases	<ul style="list-style-type: none"> • Pre and post MCQ test • OSPE 	<ul style="list-style-type: none"> • Case based discussion and interpretation of clinical scenario and lab tests
Perform simple bedside tests on blood, urine and other biological fluid samples.	<ul style="list-style-type: none"> • Practical examination and viva 	<ul style="list-style-type: none"> • Demonstration of various tests and student performing under supervision
Recognize morbid anatomical and histopathological changes for the diagnosis of common disorder.	<ul style="list-style-type: none"> • Gross specimen viva • Histopathology slide diagnosis and viva 	<ul style="list-style-type: none"> • Small group learning on gross specimens and microscopy of common diseases.
Understand biochemical/physiological disturbances that occur as a result of disease in collaboration with pre-clinical departments.	<ul style="list-style-type: none"> • Formative & Summative assessment, comprising of MCQ, BAQ, SAQ & LAQ • Viva 	<ul style="list-style-type: none"> • Lectures • Integration with other departments

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Phase III Minor

PROGRAM SPECIFIC LEARNING OUTCOME III MBBS (COMMUNITY MEDICINE)


Learning Outcome	Assessment	Activity
Knowledge		
Define health; describe the concept of holistic health including concept of spiritual health and the relativeness & determinants of health	Written/ Viva voce	Lecture, Small group discussion
Describe poverty and Social security measures and its relationship to health and disease	Written/ Viva voce	Lecture, Small group discussion
Describe concepts of safe and wholesome water, sanitary sources of water, water purification processes, water quality standards, concepts of water conservation and rainwater harvesting	Written/ Viva voce	Lecture, Small group discussion, DOAP session
Describe the common sources of various nutrients and special nutritional requirements according to age, sex activity, physiological conditions	Written/ Viva voce	Lecture, Small group discussion
Enumerate, describe and discuss the modes of transmission and measures for prevention and control of communicable and non-communicable diseases	Written/ Viva voce	Small group discussion, Lecture
Describe and discuss the epidemiological and control measures including the use of essential laboratory tests at the primary care level for non-Communicable diseases (diabetes, Hypertension, stroke, Obesity and cancer etc.)	Written/ Viva voce	Small group discussion, Lecture
Describe Universal Immunization Program; Integrated Management of Neonatal and Childhood Illness (MNCI) and other existing	Written/ Viva voce	Small group discussion, Lecture

Programs		
Enumerate and describe specific occupational health hazards, their risk factors and preventivemeasures	Written/ Viva voce	Small group discussion, Lecture
Skill		
Demonstrate Infection controlpractices and use of personal protective Equipment (PPE)	Skill assessment	DOAP session
Elicit document and present a medical history that helps delineatethe etiology of these diseases that includes the evolution and pattern of symptoms, risk factors, exposure through occupation and travel	Skill assessment	Bedside clinic, DOAP session
Visit a Child Developmentary unit and observe its functioning	Log book Entry	Lecture, Small group discussion
Describe and discuss the principlesand demonstrate the methods of collection, classification, analysis, interpretation and presentation of statistical data	Written/ Viva voce/ Skill assessment	Small group lecture, DOAP session


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PROGRAM SPECIFIC LEARNING OUTCOME- III/I MBBS (Ophthalmology)

Learning Outcome	Assessment	Activity
Knowledge		
1. Explain various methods of recording visual acuity and assessment of central vision with pin hole	<ul style="list-style-type: none"> OSCE OSPE 	<ul style="list-style-type: none"> tutorial small group teaching demonstration Seminars
2. Describe the procedure of estimation of Intra Ocular pressure by digital tonometry	<ul style="list-style-type: none"> OSCE OSPE 	<ul style="list-style-type: none"> small group teaching demonstration Tutorials
3. How to instill eye medication	<ul style="list-style-type: none"> OSPE 	<ul style="list-style-type: none"> bed side teaching demonstration
4. Understanding various types of color blindness and assessment of color vision on Ichihara's chart	<ul style="list-style-type: none"> OSCE OSPE 	<ul style="list-style-type: none"> small group teaching demonstration Tutorials
5. Assessing anterior chamber depth on torch light examination in order to diagnose angle closure glaucoma	<ul style="list-style-type: none"> OSPE OSCE 	<ul style="list-style-type: none"> Lecture Demonstration Small group teaching
Skills		
1. Measurement of IOP by digital tonometry	<ul style="list-style-type: none"> Practical examination 	<ul style="list-style-type: none"> Small group learning demonstration of procedure DOAP
2. Sac Syringing	<ul style="list-style-type: none"> Practical Examination 	<ul style="list-style-type: none"> Small group learning demonstration of procedure
3. Confrontation field testing and its importance	<ul style="list-style-type: none"> Practical Examination 	<ul style="list-style-type: none"> Small group learning demonstration of procedure
4. Pupillary reaction elicitation and clinical correlation	<ul style="list-style-type: none"> Practical Examination 	<ul style="list-style-type: none"> Small group learning demonstration of procedure
5. Ocular motility testing in all positions of gaze	<ul style="list-style-type: none"> Practical Examination 	<ul style="list-style-type: none"> Small group learning demonstration of procedure


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PROGRAM SPECIFIC LEARNING OUTCOME- III MBBS (E.N.T)

Learning Outcome	Assessment	Activity
Knowledge		
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 diseases of the external Ear	<ul style="list-style-type: none"> Formative & Summative examination comprising of MCQ, BAQ, SAQ & LAQ Viva voce DOAP session, 	<ul style="list-style-type: none"> Lecture, Small group discussion, DOAP session, Bedside clinic
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 ASOM	<ul style="list-style-type: none"> Formative & Summative examination comprising of MCQ, BAQ, SAQ & LAQ Viva voce 	<ul style="list-style-type: none"> Lecture, Small group discussion, DOAP session, Bedside clinic
3. Describe the clinical features, investigations, and principles of management of Meniere's Disease	<ul style="list-style-type: none"> Formative & Summative examination comprising of MCQ, BAQ, SAQ & LAQ Viva voce 	<ul style="list-style-type: none"> Lecture, Small group discussion, Demonstration
4. Describe the clinical features, investigations, and principles of management of trauma to the face & neck	<ul style="list-style-type: none"> Formative & Summative examination comprising of MCQ, BAQ, SAQ & LAQ Viva voce 	<ul style="list-style-type: none"> Lectures Case based discussion Tutorials
5. Observe and describe the indications for and steps involved in a tonsillectomy / adenoidectomy	<ul style="list-style-type: none"> Formative & Summative examination comprising of MCQ, BAQ, SAQ & LAQ Viva voce 	<ul style="list-style-type: none"> DOAP session Video demonstration Direct observation Discussion on a mannequin
Skills		
1. Enumerate the indications and interpret the results of an audiogram	<ul style="list-style-type: none"> Practical examination Skill assessment 	<ul style="list-style-type: none"> Lecture, Small group discussion, Demonstration DAOP Bedside Clinic
2. Demonstrate the correct technique for syringing wax from the ear in a simulated environment	<ul style="list-style-type: none"> Practical examination Skill assessment 	<ul style="list-style-type: none"> Lecture, Small group discussion, Demonstration DAOP Bedside Clinic
3. Observe and describe the indications for and steps involved in the performance of diagnostic nasal Endoscopy	<ul style="list-style-type: none"> Formative & Summative examination comprising of MCQ, BAQ, SAQ & LAQ Viva voce 	<ul style="list-style-type: none"> Lecture, Small group discussion Demonstration DAOP

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4. Observe and describe the indications for and steps involved in the performance of Otomicroscopic examination in a simulated environment	<ul style="list-style-type: none"> • Formative & Summative examination comprising of MCQ,BAQ,SAQ & LAQ • Viva voce 	<ul style="list-style-type: none"> • Lecture, Small group discussion, • Demonstration • DAOP • Bedside Clinic
5. Demonstrate the correct technique of examination of the nose & paranasal sinuses including the use of nasal speculum	<ul style="list-style-type: none"> • Skill assessment/ OSCE 	<ul style="list-style-type: none"> • DAOP • Bedside Clinic

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Phase III Major

PROGRAM SPECIFIC LEARNING OUTCOME- III / I MBBS (Gen. Medicine)

Learning Outcome	Assessment	Activity
Knowledge		
1. Explain pathophysiology of acute coronary syndrome and the management of acute coronary syndrome.	<ul style="list-style-type: none"> Formative & Summative assessment, comprising of MCQ, SAQ & LAQ OSCE 	<ul style="list-style-type: none"> Lectures Seminars Demonstration in clinics Small group discussion
2. Explain pathophysiology of the movement disorders and the management of Parkinson's disease.	<ul style="list-style-type: none"> Formative & Summative assessment, comprising of MCQ, SAQ & LAQ OSCE Viva 	<ul style="list-style-type: none"> Formative & Summative assessment, comprising of MCQ, SAQ & LAQ OSCE Viva
Approach to case of chronic liver disease with ascites. Diagnostic and therapeutic interventions..	<ul style="list-style-type: none"> Formative & Summative assessment comprising of MCQ, BAQ, SAQ & LAQ Clinics Viva OSCE 	<ul style="list-style-type: none"> Lectures Case based discussion Demonstration of the Ascitic tapping
Diabetes Mellitus management and complications. Use of various insulin combinations	<ul style="list-style-type: none"> Formative & Summative assessment, comprising of MCQ, SAQ & LAQ. OSCE 	<ul style="list-style-type: none"> Lectures Case based discussion Demonstration of insulin syringes and pen
5. ECG interpretation	<ul style="list-style-type: none"> Formative & Summative assessment, comprising of MCQ, SAQ & LAQ Viva 	<ul style="list-style-type: none"> Lectures Case based discussion
Skills		
1. Pleural tapping	<ul style="list-style-type: none"> Clinics 	<ul style="list-style-type: none"> Small group learning and demonstration of procedure DOAP
2. Lumbar puncture	<ul style="list-style-type: none"> Clinics in casualty and ICU 	<ul style="list-style-type: none"> Small group learning and demonstration of procedure
3. Perform simple	<ul style="list-style-type: none"> Clinics 	Small group learning and

<p>bedside tests on blood, urine and other biological fluid samples.</p>	<p>LEARNING OUTCOME- UG 1</p>	<p>demonstration of procedure</p>
<p>4. Ascitic tapping.</p>	<p>• Clinics</p>	<p>• Small group learning and demonstration of procedure</p>

<p>with regard to classification of vaccines, strain used, dose, route, schedule risks, benefits and side effects, indications and contraindications</p>	<p>Formative & Summative examination comprising of MCQs, BAQs, SAQs & LAQs *Viva Voce</p>	<p>• Practical • Small group discussion</p>
<p>2. Discuss the biology, clinical presentation and management of Acute Lymphoblastic Leukemia in children</p>	<p>Formative & Summative examination comprising of SAQs & LAQs</p>	<p>• Lectures • Seminars • Practical • Bedside • Small group discussion</p>
<p>3. Discuss the epidemiology, clinical features, diagnosis, management of Tuberculosis in children</p>	<p>Formative & Summative examination comprising of MCQs, BAQs, SAQs & LAQs *Viva Voce</p>	<p>• Lectures • Seminars • Practical • Bedside • Small group discussion</p>
<p>2. Describe the etiology, pathogenesis, WHO classification, clinical features, complications and management of Severe Acute Respiratory Syndrome (SARS) and Moderate Acute Respiratory Syndrome</p>	<p>Formative & Summative examination comprising of MCQ, BAQ, SAQ & LAQ • Viva and OSCE</p>	<p>• Lectures • Seminars • Practical • Bedside • Small group discussion</p>
<p>Describe the etiology, pathogenesis, clinical features, complications and management of Dengue fever</p>	<p>Formative & Summative examination comprising of MCQ, BAQ, SAQ & LAQ • Viva • OSCE</p>	<p>• Lectures • Seminars • Practical • Bedside • Small group discussion</p>

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PROGRAM SPECIFIC LEARNING OUTCOME- UG (MBBS - PAEDIATRICS)

Learning outcome	Assessment	Activity
Cognitive domain; Knowledge		
1. Explain the components of the Universal immunization Program and Vaccine description with regard to classification of vaccines, strain used, dose, route, schedule, risks, benefits and side effects, indications and contraindications	<ul style="list-style-type: none"> Formative & Summative examination, comprising of MCQs, BAQs, SAQs & LAQs. Viva Voce. 	<ul style="list-style-type: none"> Lectures Tutorials Seminars Practicals Small group discussion
2. Discuss the etiology, clinical presentation and management of Acute Lymphoblastic Leukemia in children.	<ul style="list-style-type: none"> Formative & Summative examination, comprising of SAQs & LAQs. 	<ul style="list-style-type: none"> Lectures Seminars Bedside Clinics
3. Discuss the epidemiology, clinical features, types and complications of Tuberculosis in Children and Adolescents	<ul style="list-style-type: none"> Formative & Summative examination, comprising of MCQs, SAQs & LAQs. <p>Viva Voce. OSCE</p>	<ul style="list-style-type: none"> Lectures Seminars Bedside Clinics Small group discussion
4. Describe the etio-pathogenesis, WHO classification, clinical features, complications and management of Severe Acute Malnourishment (SAM) and Moderate Acute Malnutrition (MAM)	<ul style="list-style-type: none"> Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ. Viva and OSCE 	<ul style="list-style-type: none"> Lectures Seminars Practicals Bedside Clinic Small group discussion
5. Discuss the etio pathogenesis, classification, clinical presentation and management of Diarrheal diseases in children	<ul style="list-style-type: none"> Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ Viva OSCE 	<ul style="list-style-type: none"> Lectures Seminars Practicals Small group discussion Bedside Clinics



Dr. Vijay Bhavari

MMC No.: 083408

Professor & HOD

SKILLS		
Examine Normal Neonate physical and Neuromuscular criteria, and demonstrate Neonatal Reflexes.	<ul style="list-style-type: none"> • Bedside Practical examination. • OSCE 	<ul style="list-style-type: none"> • Small group learning and demonstration of Clinical Methods. • DOAP
Examine a Case of PEM, and assess signs of Kwashiorkor and Marasmus.	<ul style="list-style-type: none"> • Bedside Practical examination • OSCE 	<ul style="list-style-type: none"> • Case based discussion and interpretation of clinical signs.
Describe various routes of administration of Vaccines and Perform IM Injection .	<ul style="list-style-type: none"> • Practical examination and viva. 	<ul style="list-style-type: none"> • Demonstration of various techniques and performing under supervision.
Describe methods of Neonatal Resuscitation, and Perform Ambu Bag & mask Ventilation on Mannequin.	<ul style="list-style-type: none"> • Viva and Practical Examination. 	<ul style="list-style-type: none"> • Small group learning , Use of Mannequin and Resuscitation Equipments.
Discuss Causes of Hepatosplenomegaly, and demonstrate methods of Palpation of Liver, and Spleen.	<ul style="list-style-type: none"> • SAQs & LAQs. • Viva 	<ul style="list-style-type: none"> • Bedside demonstration of the techniques involved. • Integration with other departments



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PROGRAM SPECIFIC LEARNING OUTCOME- II MBBS (SURGERY)

Learning Outcome	Assessment	Activity
<p>Knowledge</p> <p>1. Explain the Patho physiological processes which governs the maintenance of homeostasis, mechanism of their disturbances and the morphological and clinical manifestation associated with these disturbances which present as common surgical problems in outpatients.</p>	<ul style="list-style-type: none"> • Formative & Summative assessment, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> • Lectures • Seminars • Practicals • Small group discussion
<p>2. Describe the mechanisms and patterns of tissue response to injury to appreciate the Pathophysiology of disease processes and their various clinical manifestations in patients attending surgical opd as well as indoor admitted patients and plan their management.</p>	<ul style="list-style-type: none"> • Formative & Summative assessment, comprising of MCQ, BAQ, SAQ & LAQ • Viva 	<ul style="list-style-type: none"> • Lectures • Practicals • Tutorials
<p>3. Correlate the clinical symptoms and signs due to alterations of different organ systems in common diseases to the extent needed to understand disease processes and their clinical significance, so as to effectively design a plan of management for such commonly presenting casescenarios.</p>	<ul style="list-style-type: none"> • Formative & Summative assessment comprising of MCQ, BAQ, SAQ & LAQ • Viva • Practical examination • OSPE • OSCE 	<ul style="list-style-type: none"> • Small group learning of specimens and Radiological plates. • Weekly tutorials. • Clinical postings.
<p>4. Develop an understanding of the clinical presentation of neoplastic change in the body in order to appreciate need for early diagnosis and further management of common neoplasia cases.</p>	<ul style="list-style-type: none"> • Formative & Summative assessment, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> • Lectures • Clinical postings. • Case based discussion • Tutorials
<p>5. Understand mechanisms of common surgical disorders and develop a logical approach in their diagnosis and management.</p>	<ul style="list-style-type: none"> • Formative & Summative assessment, comprising of MCQ, BAQ, SAQ & LAQ • OSPE • OSCE • Clinical viva 	<ul style="list-style-type: none"> • Lectures • Seminars by students • Case based discussion

Skills		
1. Demonstrate & perform various clinical assessments of organ systems in common surgical patients.	<ul style="list-style-type: none"> • Practical examination • OSCE • OSPE 	<ul style="list-style-type: none"> • Small group learning and demonstration of procedure • DOAP
2. Elicit a complete patient history develop the ability to correlate with clinical and morphological features of common surgical diseases	<ul style="list-style-type: none"> • Pre and post MCQ test • OSPE 	<ul style="list-style-type: none"> • Case based discussion and interpretation of clinical scenario.
3. Perform simple bedside tests on in ward patients to elicit specific signs of common surgical diseases.	<ul style="list-style-type: none"> • Practical examination and viva 	<ul style="list-style-type: none"> • Demonstration of various tests and student performing under supervision
4. Recognize morbid anatomical and radiological changes for the diagnosis of common surgical disorders	<ul style="list-style-type: none"> • Gross specimen viva • Radiological diagnosis and viva 	<ul style="list-style-type: none"> • Small group learning on gross specimens and radiological interpretations of common surgical diseases.
5. Understand clinical and physical disturbances that occur as a result of disease in collaboration with pre-clinical departments.	<ul style="list-style-type: none"> • Formative & Summative assessment, comprising of MCQ, BAQ, SAQ & LAQ • Viva 	<ul style="list-style-type: none"> • Lectures • Integration with other departments


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DR. SACHIN NAIK

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PROGRAM SPECIFIC LEARNING OUTCOME (MBBS OBSTETRICS & GYNAECOLOGY)

LEARNING OUTCOME		ASSESSMENT	ACTIVITY
KNOWLEDGE	SLO		
Anatomy of the female reproductive tract,	<p>Describe the anatomy of female reproductive tract</p> <p>Describe relationship of pelvic organs to one another</p> <p>Describe the blood supply, nerve supply, and lymphatic drainage of female genital organs</p> <p>Describe the development of female reproductive tract</p> <p>Applied anatomy</p>	LAQ, SAQ, MCQs	Lecture, Integration with anatomy
Physiology of menstruation	Describe physiology of menstruation and its neuroendocrine control through HPO axis.	LAQ, SAQ, MCQs	Lecture Integration with physiology
Physiology of gametogenesis, Ovulation, conception, implantation, & reproductive endocrinology	Describe spermatogenesis, oogenesis, fertilization, implantation and early decidual changes	LAQ, SAQ, MCQs	Lecture Integration with physiology
Early development of embryo and fetus, development of Placenta, amniotic fluid, cord		LAQ, SAQ, MCQs	Lecture Integration with Anatomy
Embryology and developmental defects of female genital tract	<p>List investigation for diagnosis of Mullerian duct anomalies</p> <p>Clinical significance of Mullerian duct anomalies</p>	LAQ, SAQ, MCQs	Lecture Integration with Anatomy


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Diagnosis of pregnancy	Describe clinical features of pregnancy correctly Discuss d/d of suprapubic lump in women Describe chemical tests of pregnancy	LAQ,SAQ,MCQs,VIVA, Practical exam	Case based discussion
SKILL			
Antenatal Care, detailed history, and Obstetric examination	Define antenatal care Enumerate aims and objectives of ANC care Categorise a patient into high risk/low risk according to history	Practical examination	Small group learning and demonstration of procedure DOAP Case based discussion

Psychomotor Domain		
1. Able to perform routine examination in the opd and IPD. Conduct normal deliveries Assist in Major and minor Obgy procedures confidently and correctly	<ul style="list-style-type: none"> • Practical and viva • Day to day assessment 	<ul style="list-style-type: none"> • Skill Labs


 Professor & HOD
 Dept. of Obst. & Gyn.
 NIMR MEDICAL COLLEGE
 TALEGAON (D). PUNE



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Talegaon (D) Tal. Maval, Dist. Pune - 410507

DEPT. OF DENTISTRY


Program Specific Learning Outcome

Final MBBS- II (Dentistry)

Learning outcome	Learning Domain	Assessment methods	Teaching Learning Methods
DENTAL CARIES			
1.Enumerate the parts of tooth	Knowledge	Viva oc	Lecture Small group discussions
2. Enumerate the parts of tooth & supporting structures	Knowledge	Viva oc	Lecture Small group discussions
3.Discuss the role of causative organisms of dental caries	Knowledge	Viva oc	Lecture Small group discussions
4. Identify dental caries	Skill	OSCE	Chairside clinic observations
5.Discuss the role of caries as a role of sepsis	Knowledge	Viva oc	Lecture Small group discussions
6.Counsel patients with respect to oral hygiene, diet & the direct bearing on systemic health	Attitude/Cognitive	Documenting log book	DOAP Sessions
EDENTULOUS TEETH			
1. Discuss the various causes for partial/complete loss of teeth & associated structures	Knowledge	Viva oc	Lecture Small group discussions
2. Discuss the local & systemic sequelae of the above	Knowledge	Viva oc	Lecture Small group discussions
3. Identify complete complement of teeth & identify missing teeth	Skill	OSCE	Chairside clinic observations
4. Enumerate common ways of restoring the edentulous state	Knowledge	Viva oc	Lecture Small group discussions
5. Counsel patients on the importance of restoring missing teeth/tissues with respect to benefits on oral & systemic health	Attitude/Cognitive	Documenting log book	DOAP Sessions
MALOCCLUSION			
1.Aware of malocclusion & the tissues that cause it	Knowledge	Viva oc	Lecture Small group discussions
2. Enumerate the impact of	Knowledge	Viva oc	Lecture


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malocclusion on aesthetics, health			Small group discussions
3. Identify malocclusion	Skill	OSCE	Chairside clinic observations
4. Counsel patients with respect to malocclusion correction & the role it might have on oral health specifically on TMJ	Attitude/Cognitive	Documenting log book	DOAP Sessions
ORAL CANCER			
1. Discuss the prevalence of oral cancer & enumerate the common types of cancer that can affect tissues of oral cavity	Knowledge	Viva oc	Lecture Small group discussions
2. Discuss the role of etiological factors in formation of precancerous / cancerous lesions	Knowledge	Viva oc	Lecture Small group discussions
3. Identify potential pre-cancerous / cancerous lesions	Skill	OSCE	Chairside clinic observations
4. Counsel patients to risks of oral cancer with respect to tobacco, smoking, alcohol & other factors	Attitude/Cognitive	Documenting log book	DOAP Sessions
PERIODONTAL DISEASES			
1. Enumerate the parts of tooth & supporting structures	Knowledge	Viva oc	Lecture Small group discussions
2. Enumerate the common diseases that affect the periodontium & identify local & systemic causative factors	Knowledge	Viva oc	Lecture Small group discussions
3. Identify periodontal diseases	Skill	OSCE	Chairside clinic observations
4. Discuss the role of periodontal diseases as a focus of sepsis	Knowledge	Viva oc	Lecture Small group discussions
5. Counsel patients with respect to oral hygiene, diet & the direct bearing on systemic health & vice versa	Attitude/Cognitive	Documenting log book	DOAP Sessions


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Department of Psychiatry
MIMER Medical College, Talegaon Dabhade

Student Outcomes

Outcome	Skill Level	Domain	T. L. Method	Assessment Method
General Psychiatric Skills:				
1. Obtain, document, and present an age and gender-appropriate psychiatric history.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
2. Do a complete mental status examination.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
3. Assess suicidal and homicidal ideation, across the lifespan.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
4. Apply differential diagnosis skills using specific history and physical exam findings.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
5. Select appropriate diagnostic and laboratory tests and interpret results.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
6. Effectively communicate with patients and families using sensitive, non-judgmental language, and recognize the emotional impact of illness on patients and families.	SH	S/A/C	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
7. Select appropriate treatment (medication and/or therapy) and, if necessary, refer to specialty care.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
8. Develop skills for enhancing treatment adherence.	KH	K/S	Lecture/Small Group teaching	Written/Viva Voce
9. Understand that the most common mental disorders (depression, anxiety, and substance abuse) are often co-morbid with other chronic diseases and impact course, severity, and clinical outcome.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
10. Understand the confidentiality requirements of psychiatric diagnoses.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
11. Understand legal requirements of civil commitment and competency evaluations.	KH	K	Lecture/Small Group teaching	Written/Viva Voce

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Learning Outcomes:


Learning outcomes have been developed for selected diagnoses and clinical settings. By the end of the psychiatry clerkship the student will be expected to be able to:

Mood Disorders:

1. Recognize the high prevalence of depression in medical patients.	K	K	Lecture/Small Group teaching	Written/Viva Voce
2. Identify various presentations and the natural history, onset, and prognostic features of depression across the life span.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
3. Select and monitor appropriate psychiatric medications used in treating depression.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
4. Assess an individual patient's potential risk for subsequent depression.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
5. Recognize the signs and symptoms of major depression, bipolar illness, and dysthymia so that given a patient description you can recognize these syndromes.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
6. Assess the presence or absence of possible co-morbidities including dementia, anxiety disorder, adverse drug effect, substance abuse, and grief in any patient suspected of having depression.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
7. Assess a patient's risk for suicide and be able to appropriately respond to high risk patients.	SH	S/C	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
8. Assess the impact of depression upon the patient's level of function.	KH	S	Lecture/Small Group teaching	Written/Viva Voce
9. Recognize that depression may be a potentially life-threatening illness.	K	K	Lecture/Small Group teaching	Written/Viva Voce
10. Recognize that uncomplicated depression can be diagnosed and treated by non-psychiatrists.	K	K	Lecture/Small Group teaching	Written/Viva Voce
11. Recognize that treatment of depression is interdisciplinary.	K	K	Lecture/Small Group teaching	Written/Viva Voce

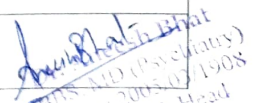
Anxiety Disorders:

1. Differentiate between normal anxiety and specific anxiety disorders.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
2. Describe major clinical, etiological, and epidemiological characteristics of panic disorder, agoraphobia, generalized anxiety disorder, social phobia, specific phobia, obsessive-compulsive disorder (OCD) and post-traumatic stress disorder (PTSD).	KH	K	Lecture/Small Group teaching	Written/Viva Voce
3. Recognize the ways in which anxiety disorders may present in primary care and other medical settings.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
4. Recognize the general medical conditions and substances commonly associated with anxiety symptoms.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
5. Describe anxiety disorder symptom presentations as they vary across the life span (e.g. child and elderly).	KH	K	Lecture/Small Group teaching	Written/Viva Voce
6. Describe major characteristics of anxiety disorders unique to childhood, including separation anxiety disorder and overanxious disorder of childhood.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
7. Recognize the precipitating factors and functional impact (e.g. work, school, family relationships) of anxiety disorders.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
8. Identify major classes of psychiatric medications used in treating anxiety disorders and discuss potential side effects of each.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
9. Select and monitor appropriate psychiatric medications used in treating anxiety disorders.	KH	K/S	Lecture/Small Group teaching	Written/Viva Voce
10. Identify the primary psychosocial therapies used to treat anxiety disorders.	KH	K	Lecture/Small Group teaching	Written/Viva Voce


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Substance Abuse

1. Understand the major models of substance dependence and implications for treatment.	K	K	Lecture/Small Group teaching	Written/Viva Voce
2. Differentiate between substance abuse and substance dependence (addiction).	K	K	Lecture/Small Group teaching	Written/Viva Voce
3. Know how to screen for alcohol and drug problems in general medical practice.	K	K	Lecture/Small Group teaching	Written/Viva Voce
4. Have working knowledge and an approach to the differential diagnosis of substance dependent patients with comorbid psychiatric disorders.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
5. Know the signs, symptoms, clinical course, and treatment of withdrawal (outpatient detoxification) for the various drugs of abuse.	K	K	Lecture/Small Group teaching	Written/Viva Voce
6. Understand the difference between addiction to prescription drugs and taking medications due to legitimate medical need.	K	K	Lecture/Small Group teaching	Written/Viva Voce
7. Differentiate between abstinence and sobriety.	K	K	Lecture/Small Group teaching	Written/Viva Voce
8. Have a working knowledge of self-help groups such as Alcoholics Anonymous and Alanson and understand basic concepts in recovery.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
9. Know the indications, contraindications, and efficacies of pharmacotherapy to treat substance abuse.	K	K	Lecture/Small Group teaching	Written/Viva Voce
10. Become knowledgeable of community resources for treatment of addiction.	SH	K	DOAD session/ Bedside clinic, Lecture/Small Group teaching	Skill Station/Practical exam/OSCE/OSPE, Written/Viva Voce


 THIS MD (Psychiatry)
 Reg. No. 2005-07-1908
 Professor & Head

Psychosis:

1. State the definition of psychosis and describe how to recognize and diagnose psychotic conditions.	SH/K	K	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
2. Perform an initial diagnostic evaluation of a patient with psychotic symptoms, including history and mental status examination.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
3. Give a medical and psychiatric differential diagnosis for psychosis.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
4. Summarize the epidemiology, diagnostic criteria, clinical features, course and complications of schizophrenia.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
5. Recognize current theories of the ethology and pathophysiology of schizophrenia.	K	K	Lecture/Small Group teaching	Written/Viva Voce
6. Recognize the common substances associated with psychosis during intoxication or withdrawal.	K	K	Lecture/Small Group teaching	Written/Viva Voce
7. Recognize the other major primary psychotic disorders including mood disorders, schizoaffective disorder, brief psychotic disorder, and delusional disorder.	K	K	Lecture/Small Group teaching	Written/Viva Voce
8. Describe common and serious side effects of frequently used antipsychotic medications.	K	K	Lecture/Small Group teaching	Written/Viva Voce
9. Recognize the pharmacologic and psychosocial treatments of schizophrenia and other psychotic disorders.	K	K	Lecture/Small Group teaching	Written/Viva Voce
10. Describe the initial and maintenance treatment of a manic episode.	K	K	Lecture/Small Group teaching	Written/Viva Voce

Dr. Anand Bhat
 M.D. Psychiatry
 Reg. No. 2010031004
 Professor in Psychiatry

Personality Disorders:

1. State the definitions of personality trait and personality disorder.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
2. Describe each personality disorder cluster and name its component disorders.	K	K	Lecture/Small Group teaching	Written/Viva Voce
3. Describe the basic characteristics of each personality disorder.	K	K	Lecture/Small Group teaching	Written/Viva Voce
4. Describe the clinical features, epidemiology, diagnostic criteria, comorbidities, and treatments of borderline personality disorder.	K	K	Lecture/Small Group teaching	Written/Viva Voce
5. Demonstrate a working knowledge of Dialectical Behaviour Therapy (DBT).	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
6. Recognize the treatments for other personality disorders.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
7. Describe the implications for the doctor-patient relationship of each personality disorder.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
8. Conduct a suicide assessment that differentiates between acute and chronic suicidal ideation.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE

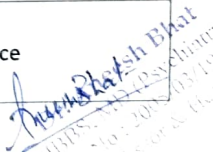
Child/Adolescent Component:

1. Describe major characteristics of disorders first presenting in childhood or adolescence including ADHD, Pervasive Developmental Disorders, Learning Disorders, and Mental Retardation.	K	K	Lecture/Small Group teaching	Written/Viva Voce
2. Describe symptoms of mood, anxiety, and psychotic disorders presenting in children.	K	K	Lecture/Small Group teaching	Written/Viva Voce
3. Recognize the ways in which a specific psychiatric disorder may present differently in childhood/adolescence.	KH	K	Lecture/Small Group teaching	Written/Viva Voce

Dr. [Signature]
 MBBS, MD (Psychiatry)
 Reg. No. 2062 of 1992
 Professor & Head

Geriatric Psychiatry Component:

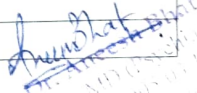
1. Demonstrate proficiency in taking a past/family psychiatric history from older adults.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
2. Recognize the importance of obtaining information from collateral informants. The student will develop an awareness that cognition may interfere with reliability of the patient's report.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
3. Recognize how geriatric psychiatry conditions impact functionality, Activities of Daily Living (ADL), and Instrumental Activities of Daily Living (IADL), should be assessed and followed in every patient.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
4. Perform standardized cognitive screening tools (e.g. MMSE and MOCA).	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
5. Define dementia and dementia subtypes, recognize symptoms of Dementia of the Alzheimer's type (DAT), describe the typical progression for dementia, and recognize treatments for dementia.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
6. Articulate that depression is not a normal part of aging and that depression may have an atypical presentation compared to younger adults.	K	K	Lecture/Small Group teaching	Written/Viva Voce
7. Use the Geriatric Depression Scale (GDS) as a standardized screening tool for depression in older adults, identify treatments for geriatric depression including the use of ECT, recognize that geriatric depression may be associated with reversible cognitive decline (i.e., pseudo dementia) and recognize that late life depression may be precursor to dementia.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
8. Recognize the complexity of the neuropsychiatric patient and the interactions between medical, neurological, and psychiatric illnesses.	KH	K	Lecture/Small Group teaching	Written/Viva Voce


 Anand Prakash Dhat
 M.D., M.P.S., M.D. (Psychiatry)
 Professor & U.C.M.

4. Conduct and interpret a child/adolescent mental status exam with a child and conduct a parent interview.	SH	K/S/A/C	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
5. Identify major classes of psychiatric medications and their pharmacokinetic principles, used in treating child and adolescent disorders and discuss potential side effects of each.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
6. Recognize the potential biological, psychological, and social impact of child abuse/neglect on development in children, and describe the legal requirements and procedure for reporting suspected child abuse/neglect in children and adolescents.	KH	K	Lecture/Small Group teaching	Written/Viva Voce

Consultation Liaison / Emergency Services Component:

1. Recognize medical symptoms of psychiatric disorders.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
2. Recognize psychiatric symptoms of medical disorders.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
3. Recognize, assess and manage the delirious patient.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
4. Conduct and interpret a Mini-Mental Status Exam or MOCA to assess cognitive function.	SH	K/S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
5. Review commitment laws for involuntary treatment, and evaluate a patient's capacity to give informed consent.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
6. Recognize psychiatric symptoms that are side effects of medications.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
7. Recognize the following somatoform disorders: somatization disorder, conversion disorder, hypochondriasis, pain disorder, body dimorphic disorder.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
8. Discuss the management of somatoform disorders.	K	K	Lecture/Small Group teaching	Written/Viva Voce

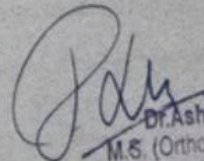

 Dr. [Signature]
 Director of Psychiatry
 University of [Name]
 [Address]
 [City, State, Zip]

9. Demonstrate understanding of how physiological changes with aging and medical comorbidities affect psychotropic prescribing.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
10. Recognize, assess, and treat delirium.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
11. Categorize the differential diagnosis of late onset psychosis.	KH	K	Lecture/Small Group teaching	Written/Viva Voce

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 The signature is in blue ink and appears to be "Dr. [Name]".
 The stamp is circular and contains the text "Faculty of Health Sciences" and "University of [Name]".

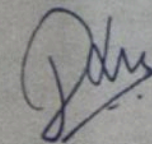
PROGRAM SPECIFIC LEARNING OUTCOME for MBBS

SR. NO.	LEARNING OUTCOME	ASSESSMENT	ACTIVITY
KNOWLEDGE			
1	Describe and discuss the Principles of pre-hospital care and Causality management of a trauma victim including principles of triage	Written/ Viva voce/OSCE/ Simulation	Lecture with video, Small group discussion
2	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of shock	Written/ Viva voce/OSCE/ Simulation	Lecture
3	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of soft tissue injuries	Written/ OSCE	Lecture, Small group discussion
4	Describe and discuss the Principles of management of soft tissue injuries	Written/ Assessment/Viva voce	Lecture, Small group discussion
5	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of dislocation of major joints, shoulder, knee, hip	Written/ Viva voce/OSCE/ Simulation	Lecture, Small group discussion, Bed side clinic
6	Participate as a member in the team for closed reduction of shoulder dislocation / hip dislocation / knee dislocation	OSCE/ Simulation	Simulation, DOAP session
7	Describe and discuss the mechanism of injury, clinical features, investigations and plan management of fracture of clavicle	Written/ Viva voce/OSCE	Lecture, Small group discussion, Bed side clinic


Dr. Ashok Chatker
M.S. (Ortho) Reg. No. 10254
Prof & Head Dept Of Orthopaedics
MIMER Medical College
Talegaon Dabhada

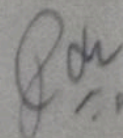
	Describe and discuss the mechanism of injury, clinical features, investigations and plan management of fractures of proximal humerus	Written/ Viva voce/OSCE	Lecture, Small group discussion, Bed side clinic
8	Select, prescribe and communicate appropriate medications for relief of joint pain	Written/ Viva voce/OSCE	Lecture, Small group discussion, Bed side clinic
9	Describe and discuss the mechanism of injury, clinical features, investigations and principles of management of fracture of shaft of humerus and intercondylar fracture humerus with emphasis on neurovascular deficit	Written/ Viva voce/OSCE	Lecture, Small group discussion, Bedside clinic
10	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	Written/ Viva voce/OSCE	Lecture, Small group discussion, Bedside clinic
11	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of distal radius	Written/ Viva voce/OSCE	Lecture, Small group discussion, Bedside clinic
12	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of pelvic injuries with emphasis on hemodynamic instability	Written/ Viva voce/OSCE	Lecture, Small group discussion, Bedside clinic
13	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of spine injuries with emphasis on mobilisation of the patient	Written/ Viva voce/OSCE	Lecture, Small group discussion, Bedside clinic
14	Describe and discuss the mechanism of injury, Clinical features,	Written/ Viva voce/OSCE	Lecture, Small group

	investigations and principle of management of acetabular fracture		discussion, Bedside clinic
15	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of proximal femur	Written/ Viva voce/OSCE	Lecture, Small group discussion, Bedside clinic
16	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	Written/ Viva voce/OSCE	Lecture, Small group discussion, Bedside clinic
17	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	Written/ Viva voce/OSCE	Lecture, Small group discussion, Bedside clinic
18	Describe and discuss the aetiopathogenesis, clinical features, Investigation and principles of management of: (a) Fracture both bones leg (b) Calcaneus (c) Small bones of foot	Written/ Viva voce/OSCE	Lecture, Small group discussion, Bedside clinic
19	Describe and discuss the aetiopathogenesis, clinical features, Investigation and principles of management of ankle fractures	Written/ Viva voce/OSCE	Lecture, Small group discussion, Bedside clinic

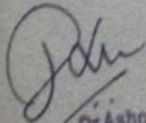


Dr. Ashok Ohatker
M.S. (Ortho) Reg. No. 10254
Prof & Head Dept. Of Orthopedics
MIMER Medical College
Talegaon Dabhade

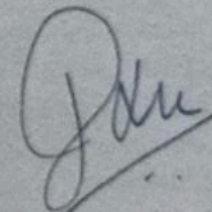
20	Plan and interpret the investigations to diagnose complications of fractures like malunion, non-union, infection, compartmental syndrome	Written/ Viva voce/OSCE	Lecture, Small group discussion, Bedside clinic
21	Describe and discuss the mechanism of injury, clinical features, investigations and principles of management of open fractures with focus on secondary infection prevention and management	Written/ Viva voce/OSCE	Lecture, Small group discussion, Bedside clinic
22	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of Bone and Joint infections a) Acute Osteomyelitis b) Subacute osteomyelitis c) Acute Suppurative arthritis d) Septic arthritis & HIV infection e) Spirochaetal infection f) Skeletal Tuberculosis	Written/ Viva voce/OSCE	Lecture, Small group discussion, Video assisted lecture
23	Participate as a member in team for aspiration of joints under supervision	Viva voce/ OSCE/Skills assessment	Small group Discussion, DOAP session
24	Participate as a member in team for procedures like drainage of abscess, sequestrectomy/ saucerisation and arthrotomy	Viva voce/ OSCE/Skills assessment	DOAP session, Video demonstration
25	Describe and discuss the clinical features, Investigation and principles of management of Tuberculosis affecting major joints (Hip, Knee) including cold abscess and caries spine	Written/ Viva voce/OSCE	Lecture, Small group discussion, Case discussion
26	Describe and discuss the aetiopathogenesis, clinical features,	Written/ Viva voce/OSCE	Lecture, Small group


 Dr. Ashok Chatterjee
 M.S. (Ortho) Reg. No. 10254
 Prof & Head, Dept. Of Orthopaedics
 MIMER Medical College
 Talegaon Dabhade

	investigations and principles of management of various inflammatory disorder of joints		discussion, Bedside clinic
27	Describe and discuss the clinical features, investigations and principles of management of degenerative condition of spine (Cervical Spondylosis, Lumbar Spondylosis, PID)	Written/ Viva voce/OSCE	Lecture, Small group discussion, Case discussion
28	Describe and discuss the aetiopathogenesis, clinical features, investigation and principles of management of metabolic bone disorders in particular osteoporosis, osteomalacia, rickets, Paget's disease	Written/ Viva voce/OSCE	Lecture, Small group discussion, Case discussion
29	Describe and discuss the aetiopathogenesis, clinical features, assessment and principles of management a patient with PostPolio Residual Paralysis	Written/ Viva voce/OSCE	Lecture, Small group discussion, Case discussion
30	Describe and discuss the aetiopathogenesis, clinical features, assessment and principles of management of Cerebral palsy patient	Written/ Viva voce/OSCE	Lecture, Small group discussion
31	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of benign and malignant bone tumours and pathological fractures	Written/ Viva voce/OSCE	Lecture, Small group discussion, Video assisted interactive lecture
32	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	Written/ Viva voce/OSCE	Lecture, Small group discussion, case discussion


 Dr. Ashok Chatker
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 MIMER Medical College
 Talegaon Dabhada

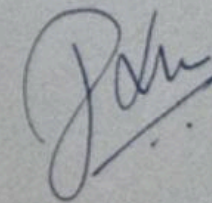
33	Describe and discuss the clinical features, investigations and principles of management of Congenital and acquired malformations and deformities of: a. limbs and spine - Scoliosis and spinal bifida b. Congenital dislocation of Hip, Torticollis, c. congenital talipes equino varus	Written/ Viva voce/OSCE	Lecture, Small group discussion
34	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 Strapping for shoulder and clavicle trauma	OSCE with Simulation based assessment	Case discussion, Video assisted Lecture, Small group discussion, Teaching, Skill lab sessions
35	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 catheterization (c) Endotracheal intubation Splintage	OSCE with Simulation based assessment	Case discussion, Video assisted Lecture, Small group discussion, 336 Teaching, Skill lab sessions



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Talegaon Dabhada

SKILLS

1	Demonstrate the ability to counsel patients regarding prognosis in patients with various orthopedic illnesses like a. fractures with disabilities b. fractures that require prolonged bed stay c. bone tumours congenital disabilities	OSCE with Simulation based assessment	Case discussion, Video assisted lecture, Small group discussion, Teaching, Skills lab sessions
2	Demonstrate the ability to counsel patients to obtain consent for various orthopedic procedures like limb amputation, permanent fixations etc..	OSCE with Simulation based assessment	Case discussion, Video assisted Lecture, Small group discussion, Teaching, Skills lab sessions
3	Demonstrate the ability to convince the patient for referral to a higher centre in various orthopedic illnesses, based on the detection of warning signals and need for sophisticated management	OSCE with Simulation based assessment	Case discussion, Video assisted Lecture, Small group discussion, Teaching, Skills lab sessions



Dr. Ashok Ohatker
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Talegaon Dabhada



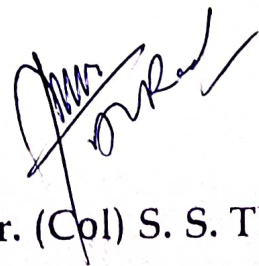
MAEER's
MIMER Medical College & Dr. BSTR Hospital.
Talegaon (D), Tal. Maval, Dist. Pune – 410507

Department of Radiology

Learning Outcomes For Under Graduate Students

SR.No	LEARNING OUTCOME	LEARNING DOMAIN	TEACHING LEARNING METHODS	ASSESSMENT METHODS
1	Define radiation and the interaction of radiation and importance of radiation protection.	Cognitive	Lecture/Demo	Written/Viva voce
2	Describe the evolution of Radio diagnosis. Identify various radiological equipments in the current era	Cognitive & Psychomotor Skills	Lecture/Demo	Written/Viva voce
3	Enumerate indications for various common Radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder of ENT	Cognitive & Psychomotor Skills	Lecture/Demo	Written/Viva voce
4	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder of Ob & Gy	Cognitive & Psychomotor Skills	Lecture/Demo	Written/Viva voce
5	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in internal medicine	Cognitive & Psychomotor Skills	Lecture/Demo	Written/Viva voce
6	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in	Cognitive & Psychomotor Skills	Lecture/Demo	Written/Viva voce

	common conditions pertaining to disorders in surgery			
7	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in Pediatrics	Cognitive & Psychomotor Skills	Lecture/Demo	Written/Viva voce
8	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to common malignancies	Cognitive & Psychomotor Skills	Lecture/Demo	Written/Viva voce
9	Describe the role of interventional Radiology in common clinical conditions	Cognitive	Lecture/Demo	Written/Viva voce
10	Describe the role of Emergency Radiology, miscellaneous & applied aspects, interaction with clinical departments	Cognitive	Lecture/Demo	Written/Viva voce
11	Describe preparation of patient for common imaging procedures	Cognitive	Lecture/Demo	Written/Viva voce
12	Describe the effects of radiation in pregnancy and the methods of prevention/ minimization of radiation exposure	Cognitive	Lecture/Demo	Written/Viva voce
13	Describe the components of the PC & PNDT Act and its medicolegal implications	Cognitive	Lecture, Small group discussion	Written/Viva voce



Dr. (Col) S. S. THIND
MD
rof. & HOD Radio Diagnosis
Regn. No.: 2018/11/5771



MAEER's
MIMER Medical College & Dr. BSTR Hospital.
Talegaon (D), Tal. Maval, Dist. Pune – 410507

Department of Dermatology

Learning Outcomes For Under Graduate Students

Sr. No	Learning Outcome	Learning Domain	Teaching Learning Methods	Assessment Methods
1	Enumerate causative factors of acne, grade acne, describe lesions & treatment	Cognitive	Lecture Clinics	Written/ Viva OSCE
2	Identify / differentiate vitiligo from other lesions & describe, treatment.	Cognitive	Lecture Clinics	Written/ Viva OSCE
3	Describe psoriasis differentiate diagnosis modalities of treatment Show grattage test	Cognitive & Psychomotor	Lecture, Clinics DOAP	Written/ Viva OSCE
4	Identify, differentiate lichen planus, write treatment	Cognitive	Lecture, Clinics	Written Viva
5	Scabies & Pediculosis describe, differentiate, Enumerate treatment	Cognitive	Lecture, Clinics DOAP	Written/ Viva OSCE
6	Fungal infection – describe, differentiate, treatment, Do KOH mount	Cognitive & Psychomotor	Lecture, Clinics DOAP	Viva OSCE
7	Viral infections describe differentiate treatment Do Tzank Smear	Cognitive & Psychomotor	Lecture, Clinics DOAP	Written/ Viva OSCE
8	Leprosy – Describe , Demonstrate treatmet. Do neurological exam & skin exam Do Slit skin smear	Cognitive & Psychomotor affective	Lecture, Clinics DOAP	Written/ Viva OSCE
9	STD : Idetify, describe, differentiate & treatment. Do dark ground illumination	Cognitive & Psychomotor affective	Lecture, Clinics DOAP	Written/ Viva OSCE

Dr. P. P. Dhole
Ref. No. 313
Professor & H.O.D.
Dept. of Skin & VD
MIMER Medical College
BSTRH, Talegaon (D), Pune

10	Dermatitis – Describe differentiate , classify , grade treatment	Cognitive & Psychomotor	Lecture, Clinics DOAP	Written/ Viva OSCE
11.	Vesiculoulous disorder - describe, treatment, Do Tzank smear, nikolskys sign, bulla spread sign	Cognitive & Psychomotor	Lecture, Clinics DOAP	Written/ Viva OSCE
12.	Urticaria describe, identify , differentiate treatment Demonstrate dermographism	Cognitive & Psychomotor	Lecture, Clinics DOAP	Written/ Viva OSCE
13.	Pyoderma describe , differentiate treatment. Do grams staining	Cognitive & Psychomotor	Lecture, Clinics DOAP	Written/ Viva OSCE
14.	Collagen, vascular disease – identify, describe, differentiate treatment Show raynaud's phenomenon	Cognitive & Psychomotor	Lecture, Clinics DOAP	Written/ Viva OSCE
15.	Nutrition & skin idetify, differentiate , describe tratment of Vit A, B, C, Zinc deficiency.	Cognitive & Psychomotor	Lecture, Clinics DOAP	Written/ Viva OSCE
16.	Describe & treatment cutaneous manifestation of DM & thyroid disorders.	Cognitive	Lecture, Clinics DOAP	Written/ Viva OSCE

Prof. & HOD

[Handwritten Signature]


Dermatology Department

Dr. Meeta Chakrade
Reg. No. 10112
M.D. (Dermatology)
Dr. T. N. Desai College
W. P. N. Medical College
T. N. Desai College (D), Pune

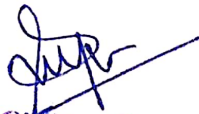
Department of Anaesthesiology

Learning Outcomes For Under Graduate Students

Sr. No	Learning Outcome	Learning Domain	Teaching Learning Methods	Assessment Methods
1	Describe the evolution of Anaesthesiology as a modern specialty, roles of Anaesthesiologist in the medical profession, and prospects of Anaesthesiology as a career	Cognitive	Lecture	Written/ Viva voce
2	Perform the Basic Life Support effectively on adults, children and neonate manikin. Advanced Life Support in adults and children manikin	Cognitive & Psychomotor skills	DOAP	OSCE/ Viva voce
3	Describe the principles of preoperative evaluation , elicit appropriate history demonstrate and document clinical examination in a patient undergoing General Surgery	Cognitive & Psychomotor skills	Lecture, Small group discussion, DOAP session, Bedside clinic	OSCE/ Viva voce
4	Describe and discuss the pharmacology of drugs of general anaesthesia ,Observe and describe the principles of induction and maintenance of general anaesthesia. Describe the anatomy of the airway a	Cognitive	Lecture, Small group discussion, DOAP session	Written/ Viva voce
5	Describe the principles of regional anaesthesia (including spinal, epidural and peripheral nerve blocks) Observe and describe the principles the pharmacology of drugs and steps/ techniques involved.	Cognitive	Lecture, Small group discussion, DOAP session	Written/ Viva voce


Dr. S. V. Chaturvedi
Prof. & HOD
Reg. No. 91003
Dept. of Anaesthesiology
MIMER Medical College
Talegaon (D), Dist. Pune

6	Describe the principles of monitoring and resuscitation in the recovery room. Describe the common complications encountered by patients in the recovery room.	Cognitive	Lecture, Small group discussion, DOAP session	Written/ Viva voce
7	Enumerate and describe the functions of an Intensive Care Unit. Observe and describe the principles of monitoring in an ICU.	Cognitive	Lecture, Small group discussion, DOAP session	Written/ Viva voce
8	Describe the anatomical correlates, physiologic principles, pharmacology and use of drugs in the management of pain.	Cognitive	Lecture, Small group discussion, DOAP session	Written/ Viva voce
9	Describe the principles of fluid therapy in the preoperative period. Establish intravenous access, central venous access in a simulated environment. Enumerate blood products and describe the use of blood products.	Cognitive & Psychomotor skills	Lecture, Small group discussion, DOAP session, Bedside clinic	OSCE/ Viva voce
10	Describe the role of communication in patient safety.	Cognitive	Lecture, Small group discussion, DOAP session	Written/ Viva voce


Dr. Shilpa Gurev
 Prof. & HOD
 Reg. No. 85508
 Dept. of Anaesthesiology
 MIMER Medical College
 Telangana Dist.



PROGRAM SPECIFIC LEARNING OUTCOME- III/I MBBS (Ophthalmology)

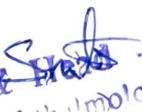
Learning Outcome	Assessment	Activity
Knowledge		
1. Explain various methods of recording visual acuity and assessment of central vision with pin hole	<ul style="list-style-type: none"> • OSCE • OSPE 	<ul style="list-style-type: none"> • tutorial • small group teaching • demonstration • Seminars
2. Describe the procedure of estimation of Intra Ocular pressure by digital tonometry	<ul style="list-style-type: none"> • OSCE • OSPE 	<ul style="list-style-type: none"> • small group teaching • demonstration • Tutorials
3. How to instill eye medication	<ul style="list-style-type: none"> • OSPE 	<ul style="list-style-type: none"> • bed side teaching • demonstration
4. Understanding various types of color blindness and assessment of color vision on Ichihara's chart	<ul style="list-style-type: none"> • OSCE • OSPE 	<ul style="list-style-type: none"> • small group teaching • demonstration • Tutorials
5. Assessing anterior chamber depth on torch light examination in order to diagnose angle closure glaucoma	<ul style="list-style-type: none"> • OSPE • OSCE 	<ul style="list-style-type: none"> • Lecture • Demonstration • Small group teaching
Skills		
1. Measurement of IOP by digital tonometry	<ul style="list-style-type: none"> • Practical examination 	<ul style="list-style-type: none"> • Small group learning • demonstration of procedure • DOAP
2. Sac Syringing	<ul style="list-style-type: none"> • Practical Examination 	<ul style="list-style-type: none"> • Small group learning • demonstration of procedure
3. Confrontation field testing and its importance	<ul style="list-style-type: none"> • Practical Examination 	<ul style="list-style-type: none"> • Small group learning • demonstration of procedure
4. Pupillary reaction elicitation and clinical correlation	<ul style="list-style-type: none"> • Practical Examination 	<ul style="list-style-type: none"> • Small group learning • demonstration of procedure
5. Ocular motility testing in all positions of gaze	<ul style="list-style-type: none"> • Practical Examination 	<ul style="list-style-type: none"> • Small group learning • demonstration of procedure

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PROGRAM SPECIFIC LEARNING OUTCOME- Post Graduation –MS (Ophthalmology)

Learning Outcome	Assessment	Activity
Knowledge		
1. Understanding the correct method of performing indirect ophthalmoscopy	<ul style="list-style-type: none"> • OSCE • OSPE 	<ul style="list-style-type: none"> • small group teaching • demonstration • Seminar
2. Describe the importance and method of eye irrigation in cases of chemical injury	<ul style="list-style-type: none"> • OSPE • OSCE 	<ul style="list-style-type: none"> • bed side teaching • Case based discussion • Tutorials
3. Understanding of various layers of retina on OCT and interpretation of various retinal diseases	<ul style="list-style-type: none"> • OSPE 	<ul style="list-style-type: none"> • Lecture • Tutorial • Seminar
4. Interpretation of visual field defects in Glaucoma in perimetry and its clinical correlation	<ul style="list-style-type: none"> • OSCE • OSPE 	<ul style="list-style-type: none"> • Small group teaching • Seminar • lecture
5. Assist/observe therapeutic procedures such as subconjunctival injection in post cataract surgery patient	<ul style="list-style-type: none"> • OSPE 	<ul style="list-style-type: none"> • Small group teaching • demonstration • seminar
Skills		
1. Performing corneo scleral tunnel in goats eye	<ul style="list-style-type: none"> • Practical examination 	<ul style="list-style-type: none"> • Small group learning • demonstration of procedure
2. Fluorescein staining in cases of corneal ulcer	<ul style="list-style-type: none"> • Practical examination and viva 	<ul style="list-style-type: none"> • Demonstration of staining method • students performing under supervision
3. Demonstrate correct procedure in step wise fashion to remove corneal foreign body	<ul style="list-style-type: none"> • Practical Examination 	<ul style="list-style-type: none"> • Small group learning • demonstration of procedure
4. Procedure of epilation in cases of trichiasis	<ul style="list-style-type: none"> • Practical Examination 	<ul style="list-style-type: none"> • Small group learning • demonstration of


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5. Correct method of performing B-scan	<ul style="list-style-type: none">• Practical Examination	procedure <ul style="list-style-type: none">• Small group learning• demonstration of Procedure• students performing under supervision
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PROGRAM SPECIFIC LEARNING OUTCOME- MD (BIOCHEMISTRY)


Learning Outcome	Assessment	Activity
Knowledge		
1. Explain the Biochemical basis of life	<ul style="list-style-type: none"> Formative & Summative examination, comprising of SAQ & LAQ 	<ul style="list-style-type: none"> Lectures Seminars Practicals Small group discussion
2. Describe the overview of different metabolism	<ul style="list-style-type: none"> Formative & Summative examination, comprising of SAQ & LAQ Viva 	<ul style="list-style-type: none"> Lectures Practicals Tutorials Microteaching
3. Nutrition – Clinical significance	<ul style="list-style-type: none"> Formative & Summative examination comprising of SAQ & LAQ Viva Practical examination 	<ul style="list-style-type: none"> Small group learning & teaching Case based discussion Microteaching Seminar
4. Understanding of molecular biology	<ul style="list-style-type: none"> Formative & Summative examination, comprising of SAQ & LAQ 	<ul style="list-style-type: none"> Lectures Case based discussion Tutorials Seminar
5. Advance biochemistry and their role in diagnosis and management	<ul style="list-style-type: none"> Formative & Summative examination, comprising of SAQ & LAQ 	<ul style="list-style-type: none"> Lectures Seminars by students Case based discussion Microteaching
Skills		
1. Demonstrate & perform various biochemical diagnostic laboratory tests	<ul style="list-style-type: none"> Practical examination Log book 	<ul style="list-style-type: none"> Small group learning and demonstration of procedure
2. Interpret molecular diagnostic technique	<ul style="list-style-type: none"> Viva Microteaching 	<ul style="list-style-type: none"> Case based discussion and interpretation of clinical scenario and lab tests

3. Perform special tests on blood, urine and other biological fluid samples.	<ul style="list-style-type: none"> • Practical examination and viva 	<ul style="list-style-type: none"> • Demonstration of various tests and student performing under supervision
4. Collection & storage of different biological fluids. Exposure to biomedical waste & quality control in labs	<ul style="list-style-type: none"> • Viva • Log book 	<ul style="list-style-type: none"> • Small group learning • Microteaching
5. Exposure to various instruments CCL. Exposure to CCL procedures & hand on training with various equipments.	<ul style="list-style-type: none"> • Formative & Summative examination, comprising of SAQ & LAQ • Viva 	<ul style="list-style-type: none"> • Lectures • Integration with other departments like Microbiology, Pathology, Medicine & Surgery
6. Analyze, discuss research work	<ul style="list-style-type: none"> • Thesis • Oral presentation in conference • Log book 	<ul style="list-style-type: none"> • Workshops • Hands on training

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Affective Domain		
1. Develop communication skills to word reports and professional opinion as well as to interact with patients, relatives, peers and paramedical staff, and for effective teaching.	<ul style="list-style-type: none"> Formative assessment by observation in day to day working 	<ul style="list-style-type: none"> Intra departmental postings in various sections. Interaction with patients and relatives
Psychomotor Domain		
1. Able to do basic ward procedures like pleural and ascetic tapping liver and kidney biopsy.	<ul style="list-style-type: none"> Skill assessment in ward procedures 	<ul style="list-style-type: none"> Daily ward procedures
2. Able to do ICU procedures like intubation and central line insertion planning the critical care of the patients.	<ul style="list-style-type: none"> Skill assessment in ICU procedures Viva voce 	<ul style="list-style-type: none"> Daily ICU procedures


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PROGRAM SPECIFIC LEARNING OUTCOME- PG (MD PATHOLOGY)

Learning outcome Cognitive domain	Assessment	Activity
1. Diagnose routine and complex clinical problems on the basis of histopathology (surgical pathology) and cytopathology specimens, blood and bone marrow examination and various tests of Laboratory Medicine (clinical pathology, clinical biochemistry) as well as Blood Banking (Transfusion Medicine).	<ul style="list-style-type: none"> • Interpretation of reports • Slide seminars- Hematology, histopathology, cytology 	<ul style="list-style-type: none"> • Intra departmental postings- hematology, clinical pathology, histopathology and cytopathology. • Microteaching
2. Interpret and correlate clinical and laboratory data so that clinical manifestations of diseases can be explained.	<ul style="list-style-type: none"> • Clinical chart interpretation • Viva • Log book 	<ul style="list-style-type: none"> • Case based discussion • Ward visit for patient examination
3. Advise on the appropriate specimens and tests necessary to arrive at a diagnosis in a problematic case.	<ul style="list-style-type: none"> • Clinical case examination 	<ul style="list-style-type: none"> • Intra departmental postings- hematology, clinical pathology, histopathology and cytopathology. • Microteaching
4. Correlate clinical and laboratory findings with pathology findings at autopsy, identify miscorrelations and the causes of death due to diseases (apart from purely metabolic causes)	<ul style="list-style-type: none"> • Practical examination of autopsy – case based • Log book 	<ul style="list-style-type: none"> • Autopsy specimen grossing and microscopy • Interdepartmental CPCs • Conference participation
5. Should be able to teach Pathology to undergraduates, postgraduates, nurses and paramedical staff including laboratory personnel.	<ul style="list-style-type: none"> • Microteaching 	<ul style="list-style-type: none"> • Practical teaching to undergraduate MBBS students • Theory and practicals for PG DMLT students
6. Plan, execute, analyse and present research work.	<ul style="list-style-type: none"> • Thesis • Oral paper presentation in conferences • Log book 	<ul style="list-style-type: none"> • Workshop on research methodology

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<p>7. Make and record observations systematically and maintain accurate records of tests and their results for reasonable periods of time. Identify problems in the laboratory, offer solutions thereof and maintain a high order of quality control</p>	<ul style="list-style-type: none"> • Formative assessment by observation in day to day working 	<ul style="list-style-type: none"> • Intra departmental postings in various sections- hematology, clinical pathology, histopathology and cytopathology.
<p>Affective Domain</p>		
<p>1. Develop communication skills to word reports and professional opinion as well as to interact with patients, relatives, peers and paramedical staff, and for effective teaching.</p>	<ul style="list-style-type: none"> • Formative assessment by observation in day to day working 	<ul style="list-style-type: none"> • Intra departmental postings in various sections. • Interaction with patients and relatives
<p>Psychomotor Domain</p>		
<p>1. Able to perform routine tests in a Pathology Laboratory including grossing of specimens, processing, cutting of paraffin and frozen sections, making smears, and staining.</p>	<ul style="list-style-type: none"> • Practical and viva on histotechniques • Day to day assessment of grossing of specimens 	<ul style="list-style-type: none"> • Histopathology posting • Daily grossing • Special staining
<p>2. Able to collect specimens by routinely performing non-invasive out-patient procedures such as venipuncture, finger-prick, fine needle aspiration of superficial lumps and bone-</p>	<ul style="list-style-type: none"> • Formative assessment while doing procedure. • Viva 	<ul style="list-style-type: none"> • Performing venipuncture • Performing bone marrow aspiration and biopsy procedure and

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marrow aspirates, and provide appropriate help to colleagues performing an invasive procedure such as a biopsy or an imaging guided biopsy		FNAC
3. Perform an autopsy, dissect various organ complexes and display the gross findings	<ul style="list-style-type: none"> • Practical examination • Viva 	<ul style="list-style-type: none"> • Autopsy specimen discussion • Autopsy workshop participation
4. Should be familiar with the function, handling and routine care of equipments in the laboratory.	<ul style="list-style-type: none"> • Formative assessment by observation in day to day working 	<ul style="list-style-type: none"> • Intra departmental postings in various sections

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PROGRAM SPECIFIC LEARNING OUTCOME- PG (MD PHARMACOLOGY)

Learning outcome	Assessment	Activity
Cognitive domain		
<ul style="list-style-type: none"> • Explain pharmacodynamics and pharmacokinetics of drugs 	<ul style="list-style-type: none"> • Seminars 	<ul style="list-style-type: none"> • Calculation of dose, • Microteaching
<ul style="list-style-type: none"> • Acquire knowledge on pharmacovigilance 	<ul style="list-style-type: none"> • ADR reporting • Log book 	<ul style="list-style-type: none"> • Case based discussion • Ward visit for ADR reporting
<ul style="list-style-type: none"> • Apply and integrate knowledge of pathophysiology of diseases and its modulation by drugs 	<ul style="list-style-type: none"> • Seminars 	<ul style="list-style-type: none"> • Microteaching
<ul style="list-style-type: none"> • Acquire knowledge on essential medicines 	<ul style="list-style-type: none"> • Preparation of essential drug list for various diseases 	<ul style="list-style-type: none"> • WHO essential drug list
<ul style="list-style-type: none"> • Acquire knowledge on rational use of drugs and prescription auditing. 	<ul style="list-style-type: none"> • Microteaching 	<ul style="list-style-type: none"> • Practical teaching to undergraduate MBBS students
<ul style="list-style-type: none"> • Plan, execute, analyse and present research work. 	<ul style="list-style-type: none"> • Thesis • Oral paper presentation in conferences • Log book 	<ul style="list-style-type: none"> • Workshop on research methodology
<ul style="list-style-type: none"> • Acquire knowledge on the legal and ethical issues involved in drug development and research. 	<ul style="list-style-type: none"> • Seminar 	<ul style="list-style-type: none"> • Protocol writing
Affective Domain		
1. Effectively explain to patients, the effects and side effects of drugs, including the need for medication adherence	<ul style="list-style-type: none"> • Formative assessment 	<ul style="list-style-type: none"> • Interaction with patients and relatives
Psychomotor Domain		
1. Able to predict efficacy and adverse effects associated with use of drugs, along with causality assessment	<ul style="list-style-type: none"> • Practical and viva 	<ul style="list-style-type: none"> • ADR forms collection
2. Perform major in vivo and in vitro animal experiments	<ul style="list-style-type: none"> • Formative assessment while doing procedure. • Viva 	<ul style="list-style-type: none"> • Performing animal experiments

3. Demonstrate presentation skills at academic meetings, publications and writing research projects for funding agencies.	• Research work presentation	• Planning and executing the research project
4. Demonstrate skills for prescription writing	• Formative assessment	• Teaching M.B.B.S. students



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PROGRAM SPECIFIC LEARNING OUTCOME- PG (DERMATOLOGY)

Learning Outcome	Assessment	Activity
<p>Knowledge</p> <p>1. Basic sciences- Explain structure functions & development of human skin including its microscopic & ultra-microscopic structures.</p>	<ul style="list-style-type: none"> • Formative examination conducted at the end of 1 yr. • Summative examination • MCQ,SAQ,LAQ 	<ul style="list-style-type: none"> • Seminar • Small group discussion
<p>2. Describe epidemiology, pathogenesis, clinical features, investigations & management of all infectious diseases i.e. bacterial, fungal, viral & parasitic infestations.</p>	<ul style="list-style-type: none"> • Formative examination conducted at the end of 1 yr. • Summative examination • MCQ,SAQ,LAQ • Viva • Spotters • Case presentations 	<ul style="list-style-type: none"> • Case presentation in grand rounds & OPD • Direct management, investigations of patients under supervision & independently. • Integrated teaching lectures with community medicine & microbiology
<p>3. Describe epidemiology, pathogenesis, clinical features, investigations & management of inflammatory skin disorders like psoriasis, vesicobullous disorders.</p>	<ul style="list-style-type: none"> • Formative examination conducted at the end of 1 yr. • Summative examination • MCQ,SAQ,LAQ • Long & short case presentations during formative & summative exams 	<ul style="list-style-type: none"> • Case presentation in grand rounds & OPD • Direct management, investigations of patients under supervision & independently.
<p>4. Describe epidemiology, pathogenesis, clinical features, investigations & management of contact allergic & irritant dermatitis, photo dermatitis, occupational dermatitis & dermatitis due to other physical factors.</p>	<ul style="list-style-type: none"> • Formative examination conducted at the end of 2 years • Summative examination • MCQ,SAQ,LAQ • Spotters 	<ul style="list-style-type: none"> • Small group discussions • Case presentations • Investigation & management of patients under supervision & independently. • Seminars

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<p>5. Describe epidemiology, pathogenesis, clinical features, investigations & management of precancerous & cancerous skin conditions like Squamous cell carcinoma, Basal cell carcinoma.</p>	<ul style="list-style-type: none"> • Formative examination conducted at the end of 2 years • Summative examination • MCQ, SAQ, LAQ • Spotters 	<ul style="list-style-type: none"> • Small group discussions • Case presentations • Investigation & management of patients under supervision & independently. • Seminars • Integrated teaching lectures with surgery department
<p>6. Describe various disorders associated with systemic diseases – renal cardiovascular, pulmonary system & rheumatology, vasculitis, collagen vascular disorders.</p>	<ul style="list-style-type: none"> • Formative examination conducted at the end of 2 years • Summative examination • MCQ, SAQ, LAQ • Spotters • Case presentation (Long case & short case) 	<ul style="list-style-type: none"> • Integrated case presentation, group discussion & lectures with rheumatology & internal medicine departments.
<p>7. Describe epidemiology, pathogenesis, clinical features, investigations & management of Leprosy & Sexually transmitted diseases.</p>	<ul style="list-style-type: none"> • Formative examination conducted at the end of 1 yr. • Summative examination • MCQ, SAQ, LAQ • Viva • Spotters • Case presentations 	<ul style="list-style-type: none"> • Case presentation in grand rounds & OPD • Direct management, investigations of patients under supervision & independently. • Integrated teaching lectures with community medicine & microbiology
<p>8. Describe various topical & systemic drug therapy including recent advances.</p>	<ul style="list-style-type: none"> • Formative examination conducted at the end of 1 yr. • Summative examination • MCQ, SAQ, LAQ • Table viva 	<ul style="list-style-type: none"> • Seminar • Tutorials • Lectures • Small group discussions • Integrated group discussions with pharmacology department
<p>Skills</p>		


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1. To be able to perform & order various bed side tests like KOH staining, Giemsa staining & acid-fast staining, Woods lamp, culture, routine lab investigations & skin biopsy.	<ul style="list-style-type: none"> • Practical examination 	<ul style="list-style-type: none"> • Perform all procedures under supervision & then independently on patients
2. To be able to order & interpret laboratory test to reach the diagnosis.	<ul style="list-style-type: none"> • OSPE • Pre & post MCQ test 	<ul style="list-style-type: none"> • Case based discussion & interpretation in OPD & grand rounds
3. To be able to take incisions, sutures, do peels, acne surgery, vitiligo surgery, radiofrequency, cryotherapy & electrocautery .	<ul style="list-style-type: none"> • Practical examination • Table viva during summative exam • OSPE during formative exam 	<ul style="list-style-type: none"> • Perform all procedures under supervision & then independently on patients at the end of 3rd year

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PROGRAM SPECIFIC LEARNING OUTCOME- PG (MS- OBSTETRICS&GYNAECOLOGY)

Learning outcome	Assessment	Activity
Cognitive domain		
1. Develop competence in the medical history taking and physical examination of women and incorporate ethical, social, and diversity perspectives to provide culturally competent health care	<ul style="list-style-type: none"> • Ward work • Log book 	<ul style="list-style-type: none"> • Ward rounds.
2. Demonstrate knowledge of preconception care including the impact of genetics, medical conditions and environmental factors on maternal health and fetal development.	<ul style="list-style-type: none"> • Clinical case interpretation • Viva • Log book 	<ul style="list-style-type: none"> • Case based discussion • OPD/Ward rounds for patient examination
3. Explain the normal physiologic changes of pregnancy including interpretation of common diagnostic studies.	<ul style="list-style-type: none"> • Clinical case examination 	<ul style="list-style-type: none"> • Intra departmental postings • Microteaching
4. Describe common problems in obstetrics	<ul style="list-style-type: none"> • Practical examination • Log book 	<ul style="list-style-type: none"> • Conference participation • Short case presentation
5. Demonstrate knowledge of intrapartum care. 8. Demonstrate knowledge of postpartum care of the mother and newborn.	<ul style="list-style-type: none"> • Management of Labour room • IPD Patient 	<ul style="list-style-type: none"> • Practical teaching to undergraduate MBBS students
6. Describe menstrual cycle physiology, discuss puberty and menopause and explain normal and abnormal bleeding. Demonstrate knowledge of common benign gynaecological conditions.	<ul style="list-style-type: none"> • Formative assessment by observation in day to day working 	<ul style="list-style-type: none"> • Practical teaching to undergraduate MBBS students
7. Plan, execute, analyse and present research work.	<ul style="list-style-type: none"> • Thesis • Oral paper presentation in conferences • Log book 	<ul style="list-style-type: none"> • Workshop on research methodology
8. Demonstrate knowledge of perioperative care and familiarity with gynecological procedures.	<ul style="list-style-type: none"> • Formative assessment by observation in day to day working 	<ul style="list-style-type: none"> • Ward rounds
9. Describe gynecological malignancies including risk factors, signs and symptoms and initial evaluation.	<ul style="list-style-type: none"> • Formative assessment by observation in day to day working 	<ul style="list-style-type: none"> • Case presentation


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Affective Domain		
1. Develop communication skills to interact with patients, relatives, peers and paramedical staff.	<ul style="list-style-type: none"> Formative assessment by observation in day to day working 	<ul style="list-style-type: none"> Intra departmental postings in various sections. Interaction with patients and relatives
Psychomotor Domain		
1. Able to perform routine examination in the opd and IPD. Conduct normal and complicated labour. Major and minor Obgy procedures confidently and correctly	<ul style="list-style-type: none"> Practical and viva Day to day assessment 	<ul style="list-style-type: none"> Skill Labs



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PROGRAM SPECIFIC LEARNING OUTCOME- POST GRADUATE(MD MICROBIOLOGY)

Learning outcome	Assessment	Activity
Cognitive domain/ Knowledge		
1) Diagnosis of infectious diseases and its application in the treatment prevention and control of communicable diseases caused by micro-organisms	<ul style="list-style-type: none"> • DOAP • Interpretation of reports • Slide seminars 	<ul style="list-style-type: none"> • Intra departmental postings- • Bacteriology • Virology • Parasitology • Mycology • Immunology • Mycobacteriology
2) Explain the principles of immunological phenomenon.	<ul style="list-style-type: none"> • Formative and Summative assessment 	<ul style="list-style-type: none"> • Micro teaching • Seminars
3) Practice Laboratory medicine for diagnosis of infectious diseases in hospital & community	<ul style="list-style-type: none"> • Clinical case examination 	<ul style="list-style-type: none"> • Intra departmental laboratory postings
4) Interpret and correlate clinical and laboratory data so that clinical manifestations of diseases can be explained.	<ul style="list-style-type: none"> • Clinical chart interpretation • Viva • Log book 	<ul style="list-style-type: none"> • Case based discussion • Ward visit for patient examination
5) Advise on the appropriate specimens and tests necessary to arrive at a diagnosis in a problematic case.	<ul style="list-style-type: none"> • Clinical case examination 	<ul style="list-style-type: none"> • Intra departmental postings- hematology, clinical pathology, histopathology and cytopathology. • Microteaching
6) Prevention and control of communicable diseases in community	<ul style="list-style-type: none"> • Log book • Viva 	<ul style="list-style-type: none"> • Health Surveys • Role Play
7) Principal of Prevention and control of health care associated infections and rational antibiotic policy	<ul style="list-style-type: none"> • Formative & summative assessment • Viva 	<ul style="list-style-type: none"> • Hospital Visit • Case based discussion
8) Recent advances in medical Microbiology	<ul style="list-style-type: none"> • Formative & summative assessment 	<ul style="list-style-type: none"> • Seminar • Visit to other institute
9) Should be able to teach Microbiology to undergraduates, postgraduates, nurses and paramedical staff including laboratory personnel.	<ul style="list-style-type: none"> • Microteaching 	<ul style="list-style-type: none"> • Practical teaching to undergraduate MBBS students • Theory and practicals for PG DMLT students

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Department of Community Medicine

PROGRAM SPECIFIC LEARNING OUTCOME- POST GRADUATE

(MD Community Medicine)

Learning outcome	Assessment	Activity
Cognitive domain		
1. Describe conceptual (and applied) understanding of public health community Medicine clinical and disease – oriented approach preventive approach & health promotion, disease control & promotion.	<ul style="list-style-type: none"> • Lecture, • Practicals, • seminars 	<ul style="list-style-type: none"> • Visit to public health importance, Micro teaching, Health education
2. Apply the principles of epidemiology, health research and Bio-statistics, application of qualitative research methods.	<ul style="list-style-type: none"> • Interpretation of reports • Research projects 	<ul style="list-style-type: none"> • Visit to Urban & rural health centre
3. Knowledge about communicable and non-communicable diseases, their epidemiology.	<ul style="list-style-type: none"> • Clinical case examination 	<ul style="list-style-type: none"> • Inter departmental medicine, pediatric, OBGY
4. To describe the concept of environmental health and its various health issues.	<ul style="list-style-type: none"> • Entomology practical • Log book 	<ul style="list-style-type: none"> • Slide examination and models

5. Should be able to teach Community Medicine to undergraduates, postgraduates, nurses and paramedical staff including laboratory personnel.	• Microteaching	• Practical teaching to undergraduate MBBS students • Theory and practicals for PG DMLT students
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6. Plan, execute, analyse and present research work.	<ul style="list-style-type: none"> • Thesis • Oral paper presentation in conferences • Log book 	<ul style="list-style-type: none"> • Workshop on research methodology
7. Make and record observations systematically and maintain accurate records of tests and their results for reasonable periods of time.	<ul style="list-style-type: none"> • Formative assessment by observation in day to day working 	<ul style="list-style-type: none"> • Intra departmental postings in various sections Urban and Rural areas
Affective Domain		
1. Develop communication skills to word reports and professional opinion as well as to interact with patients, relatives, peers and paramedical staff, and for effective teaching.	<ul style="list-style-type: none"> • Formative assessment by observation in day to day working 	<ul style="list-style-type: none"> • Intra departmental postings in various centers. • Interaction with patients and relatives
Psychomotor Domain		
Able to carry out research and report writing	Research projects in urban and rural area	Posting in UHTC and RHTC, PHC,
1. Able to perform routine tests in a Public health Laboratory.	<ul style="list-style-type: none"> • Practical and viva on chlorination, insecticides, nutrition specimens, Biomedical waste management 	<ul style="list-style-type: none"> • Microbiology and pathology posting • Collection of specimens and staining

2. Able to collect water specimens, Plan a diet ,Detect adulteration of foods and study of entomology specimens	<ul style="list-style-type: none"> • Formative assessment while doing procedure. • Viva • Practical 	<ul style="list-style-type: none"> • Collection specimens • micro teaching
3. Perform data collection, carry out	<ul style="list-style-type: none"> • Research projects 	<ul style="list-style-type: none"> • Posting and Rural
Should be familiar with	<ul style="list-style-type: none"> • Formative 	<ul style="list-style-type: none"> • Intra
epidemiology public health legislations, occupational health	<ul style="list-style-type: none"> • Formative assessment by observation in day to day working • Seminar , Micro teaching 	<ul style="list-style-type: none"> • departmental postings in various centers, visits to public health importance

**PROGRAM SPECIFIC LEARNING OUTCOME - POST GRADUATE(MS
SURGERY)**

Learning outcome	Assessment	Activity
Cognitive domain		
1. Diagnose routine and complex clinical problems on the basis of presenting clinical symptoms and elicit various relevant clinical signs in OPD patients.	<ul style="list-style-type: none"> • Interpretation of reports • Interpretation of Clinical Signs • Arriving at a clinical diagnosis • Mapping a Management Plan 	<ul style="list-style-type: none"> • Intra departmental Postgraduate Teaching including Seminars and Case Presentations. • Microteaching. • Inter departmental Clinico Pathological and Clinico Radiological correlation meetings.
2. Interpret and correlate clinical and laboratory data so that clinical manifestations of diseases can be explained.	<ul style="list-style-type: none"> • Clinical chart interpretation • Viva • Log book 	<ul style="list-style-type: none"> • Daily Ward Rounds • Grand Round once a week • Case based discussions
3. Advise on the appropriate laboratory and radiological tests necessary to arrive at a diagnosis in a problematic case.	<ul style="list-style-type: none"> • Clinical case examination • Practical exams 	<ul style="list-style-type: none"> • Intra departmental Postgraduate Teaching including Seminars and Case Presentations. • Microteaching • Inter departmental Clinico Pathological and Clinico Radiological correlation meetings.
4. Correlate clinical and laboratory findings with pathology findings at autopsy, identify miscorrelations and the causes of death due to diseases (apart from purely metabolic causes)	<ul style="list-style-type: none"> • Practical examination • Surgical Pathology Specimen viva • Log book 	<ul style="list-style-type: none"> • Interdepartmental CPCs • Conference participation
5. Should be able to teach Surgery to undergraduates.	<ul style="list-style-type: none"> • Microteaching • Log book 	<ul style="list-style-type: none"> • Practical procedures teaching to undergraduate MBBS students • Conduct Clinical Tutorials • Participate in Case Based Scenarios for Undergraduate students.
6. Plan, execute, analyse and present research work.	<ul style="list-style-type: none"> • Thesis • Oral paper presentation in 	<ul style="list-style-type: none"> • Workshop on research methodology

	<ul style="list-style-type: none"> conferences Case Reports Log book 	
7. Make and record observations systematically and maintain accurate records of patients preoperatively with the intention of posting them for definitive surgical procedures	<ul style="list-style-type: none"> Formative assessment by observation in day to day working 	<ul style="list-style-type: none"> Inter departmental postings in various related departments like Anesthesia, Orthopaedics, Obstetrics and Radiology.
Affective Domain		
1. Develop communication skills to word reports and professional opinion as well as to interact with patients, relatives, peers and paramedical staff, and foreffective teaching.	<ul style="list-style-type: none"> Formative assessment by observation in day to day working 	<ul style="list-style-type: none"> Intra departmental postings within various specialities. Interaction with patients and relatives
Psychomotor Domain		
1. Able to perform routine clinical tests in OPD and Ward setting.	<ul style="list-style-type: none"> Practical and viva Day to day assessment of grossing of specimens 	<ul style="list-style-type: none"> Intra departmental Post Graduate Teaching including Seminars and Case Presentations. Microteaching
2. Able to perform common interventions in emergent and elective patients.	<ul style="list-style-type: none"> Formative assessment while doing procedure. Viva 	<ul style="list-style-type: none"> Performing CPR biopsy procedures and FNAC Management of patient in Shock
3. Able to perform common surgical procedures considered as the main stay of surgical technique in Minor OT independently and in Major OT under supervised guidance.	<ul style="list-style-type: none"> Practical examination Viva 	<ul style="list-style-type: none"> Pre and post operative discussions Microteaching
4. Should be familiar with the function, handling and routine care of equipments in the ward, ICU and Operation Theatre.	<ul style="list-style-type: none"> Formative assessment by observation in day to day working 	<ul style="list-style-type: none"> Intra departmental postings in various sections


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MIMER MEDICAL COLLEGE & DR. B. S. T. R. HSOPITAL, TALEGAONDABHADE

DEPARTMENT OF ORTHOPAEDICS

**PROGRAM SPECIFIC LEARNING OUTCOME-POST GRADUATE(MS
ORTHOPAEDICS)**

Learning outcome	Assessment	Activity
Cognitive domain (Knowledge)		
1. Describe the principles of injury, its mechanism and mode, its clinical presentation, plan and interpret the appropriate investigations, and institute the management of musculoskeletally injured patient.	Written/viva voce/ OSCE/MCQ	Lecture Small group discussion Bedside clinic
2. Identify and describe the surface anatomy and relationships within of the various bones, joints, ligaments, major arteries, veins and nerves of the musculoskeletal system of the spine, upper limb, lower limb and the pelvis, chest, abdomen and head & neck.	Written/viva voce/ OSCE/MCQ	Lecture Small group discussion Bedside clinic
3. Define and describe pathophysiology of shock (circulatory failure)	Written/viva voce/ OSCE/MCQ	Lecture Small group discussion Bedside clinic
4. Describe the principles and stages of bone and soft tissue healing.	Written/viva voce/ OSCE/MCQ	Lecture Small group discussion Bedside clinic
5. Enumerate, classify and describe the various bony/ soft tissue injuries affecting the axial and appendicular skeletal system in adults and	Written/viva voce/ OSCE/MCQ	Lecture Small group discussion Bedside clinic



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children		
6. Describe the principles of internal and external fixation for stabilization of bone and joint injuries.	Written/viva voce/ OSCE/MC Q	Lecture Small group discussion Bedside clinic
7. Describe the mechanism of homeostasis, fibrinolysis and methods to control haemorrhage.	Written/viva voce/ OSCE/MC Q	Lecture Small group discussion Bedside clinic
8. Describe the pharmacokinetics and dynamics of drug metabolism and excretion of analgesics, anti-inflammatory, antibiotics, disease modifying agents and chemotherapeutic agents.	Written/viva voce/ OSCE/MC Q	Lecture Small group discussion Bedside clinic
9. Describe the clinical presentation and plan and interpret investigations, institute management and prevention of the following diseases conditions a. Nutritional deficiency diseases affecting the bones and joints b. Deposition arthropathies c. Endocrine abnormalities of the musculoskeletal system d. Metabolic abnormalities of the musculoskeletal system e. Congenital anomalies of the musculoskeletal system f. Developmental skeletal disorder of the musculoskeletal system.	Written/viva voce/ OSCE/MC Q	Lecture Small group discussion Bedside clinic
10. Describe the pathogenesis, clinical features plan and interpret investigations and institute management in	Written/viva voce/ OSCE/MC Q	Lecture Small group discussion Bedside clinic


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<p>adults and children in</p> <p>a) Tubercular infections of bone and joints (musculoskeletal system)</p> <p>b) Pyogenic infections of musculoskeletal system</p> <p>c) Mycotic infections of musculoskeletal system</p> <p>D) Autoimmune disorders of the musculoskeletal system</p> <p>e) Rheumatoid arthropathy, Ankylosing spondylitis, seronegative arthropathy</p> <p>f) Osteoarthritis and spondylosis</p>		
<p>11. Describe the pathogenesis, clinical presentation, plan and interpret investigations and institute appropriate treatment in the following conditions;</p> <p>a) Post polio residual paralysis</p> <p>b) Cerebral palsy</p> <p>c) Muscular dystrophies and myopathies</p> <p>d) Nerve injuries</p> <p>e) Entrapment neuropathies</p>	<p>Written/viva voce/ OSCE/MCQ</p>	<p>Lecture Small group discussion Bedside clinic</p>
<p>12. Identify the diagnosis and describe management of musculoskeletal manifestation of AIDS and HIV infection.</p>	<p>Written/viva voce/ OSCE/MCQ</p>	<p>Lecture Small group discussion Bedside clinic</p>
<p>13. Describe the aetiopathogenesis, identify, plan and interpret investigation and institute the management of osteonecrosis of bones</p>	<p>Written/viva voce/ OSCE/MCQ</p>	<p>Lecture Small group discussion Bedside clinic</p>
<p>14. Describe the aetiopathogenesis, clinical</p>	<p>Written/viva voce/ OSCE/MCQ</p>	<p>Lecture Small group discussion</p>


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presentation, Identification, Plan investigation and institute treatment for oncologic problems of musculoskeletal system both benign and malignancies, primary and secondary		Bedside clinic
15. Understand the basis , principles of biomaterials and orthopaedic metallurgy	Written/viva voce/OSCE/MCQ	Lecture Small group discussion Bedside clinic
16. Describe the principles of normal and abnormal gait and understand the biomedical principles of posture and replacementsurgeries.	Written/viva voce/OSCE/MCQ	Lecture Small group discussion Bedside clinic
Affective domain		
1. Should be able to function as a part of a team, develop an attitude of cooperation with colleagues, and interact with the patient and the clinician or other colleagues to provide the best possible diagnosis or opinion	Formative assessment by observation in by day to day working/ mini CEX	Interdepartmental postings in various units and sections such as OT/ ward/ IPD interactions with patients and relatives
2. Always adopt ethical principles and maintain proper etiquette in dealings with patients, relatives and other health personnel and to respect the rights of the patient including the right to information and second opinion.	Formative assessment by observation in by day to day working/ mini CEX	Interdepartmental postings in various units and sections such as OT ward/ IPD interactions with patients and relatives


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3. Develop communication skills to ward reports and professional opinion as well as to interact with patients, relatives, peers and paramedical staff, and for	Formative assessment by observation in by day to dayworking/ mini CEX	Inter departmental postings in various units and sections such as OT/ ward/ IPD interactions with patients and relatives
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effective teaching		
Psychomotor Domain		
1. Elicit a clinical history from a patient, do a physical examination, document in a case record, order appropriate investigations and make a clinical diagnosis	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • Case discussion, • lecture, • small group discussion, • skill lab sessions
2. Apply all types of POP casts/ slabs, splints and tractions as per need	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • Case discussion, • lecture, • small group discussion, • skill lab sessions
3. Perform split thickness skin grafting	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • Case discussion, • lecture, • small group discussion, • skill lab sessions
4. Take an informed consent for standard orthopaedic procedures	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • Case discussion, • lecture, • small group discussion, • skill lab sessions
5. Perform closed/ open biopsies for lesions of bone, joints and soft tissues	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • Case discussion, • lecture, • small group discussion, • skill lab sessions
6. Perform split thickness skin grafting and local flaps	OSCE with simulation based assessment, viva	<ul style="list-style-type: none"> • Case discussion, • lecture,

	Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • small group discussion, • skill lab sessions
7. Perform on bone models, internal fixation with k- wires, screws, plates. Dynamic hip/ condylar screws/ nailing.	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • Case discussion, • lecture, • small group discussion, • skill lab sessions
8. Perform sequestrectomy and saucerisation	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • Case discussion, • lecture, • small group discussion, • skill lab sessions
9. Perform Arthrotomy of joints like hip/ shoulder, ankle, elbow	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • Case discussion, • lecture, • small group discussion, • skill lab sessions
10. Perform repair of open hand injuries including tendon repair	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • Case discussion, • lecture, • small group discussion, • skill lab sessions
11. Perform arthodesis of small joints	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • Case discussion, • lecture, • small group discussion, • skill lab session

12. Perform diagnostic arthroscopy on models and their patients	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • Case discussion, • lecture, • small group discussion, • skill lab sessions
13. Perform carpal tunnel/tarsal tunnel release	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • Case discussion, • lecture, • small group discussion, • skill lab sessions
14. Apply Ilizarov external fixator	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • Case discussion, • lecture, • small group discussion, • skill lab sessions
15. Perform soft tissue releases in contractures, tendon lengthening and correction of deformities	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • Case discussion, • lecture, • small group discussion, • skill lab sessions
16. Perform amputations at different levels.	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • Case discussion, • lecture, • small group discussion, • skill lab sessions
17. Perform corrective surgeries for CTEV, DDH, perthes/ skeletal dysplasia.	OSCE with simulation based assessment, viva Formative assessment by observation in day to day working/ end of final posting	<ul style="list-style-type: none"> • Case discussion • lecture, • small group discussion,

	examination theory and practical / OSPE/ log book	<ul style="list-style-type: none"> • skill lab sessions
18. Assist in the surgical management of polytraumapatient	Viva, formative assessment by observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester	Case discussion in operation theater, video assisted lecture, small group discussion and skill lab sessions.
19. Assist in Arthroplasty surgeries of hip, knee, shoulder and the ankle.	Viva, formative assessment by observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester	Case discussion in operation theater, video assisted lecture, small group discussion and skill lab sessions.
20. Assist in spinal decompressions and spinalstabilizations	Viva, formative assessment by observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester	Case discussion in operation theater, video assisted lecture, small group discussion and skill lab sessions.
21. Assist in operative arthroscopy of various joints	Viva, formative assessment by observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester	Case discussion in operation theater, video assisted lecture, small group discussion and skill lab sessions.
22. Assist/ perform Arthrodesis of major joints like hip, knee, shoulder, elbow.	Viva, formative assessment by observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester	Case discussion in operation theater, video assisted lecture, small group discussion and skill lab sessions.
23. Assist in corrective osteotomies.	Viva, formative assessment by observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester	Case discussion in operation theater, video assisted lecture, small group discussion and skill lab sessions.
24. Assist in surgical operations on benign and malignant musculoskeletal tumor including radical excision and custom prosthesis replacement.	Viva, formative assessment by observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester	Case discussion in operation theater, video assisted lecture, small group discussion and skill lab sessions.
25. Assist in open reduction	Viva, formative assessment by	Case discussion in

and internal fixations of complex fractures of Acetabular, pelvis, IPSI lateral floating knee/ elbow injuries, shoulder girdle and hand	observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester	operation theater, video assisted lecture, small group discussion and skill lab sessions.
26. Assist in spinal deformity corrections	Viva, formative assessment by observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester	Case discussion in operation theater, video assisted lecture, small group discussion and skill lab sessions.
27. Independently perform closed/ open reduction and internal fixation with DCP, LCP intramedullary nailing, LRS	Viva, formative assessment by observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester	Case discussion in operation theater, video assisted lecture, small group discussion and skill lab sessions.
28. Assist in limb lengthening procedures	Viva, formative assessment by observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester	Case discussion in operation theater, video assisted lecture, small group discussion and skill lab sessions.
29. Assist in Revision surgeries	Viva, formative assessment by observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester	Case discussion in operation theater, video assisted lecture, small group discussion and skill lab sessions.
30. Provide pre and post OPcare	Viva, formative assessment by observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester	Case discussion in operation theater, video assisted lecture, small group discussion and skill lab sessions.
31. Perform all clinical skills as related to the specialty	Viva, formative assessment by observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester	Case discussion in operation theater, video assisted lecture, small group discussion and skill lab sessions.


Department of Psychiatry
MIMER Medical College, Talegaon Dabhade

Program Specific Learning Outcome – PG (MD Psychiatry)

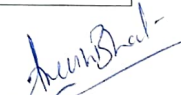
Outcome	Skill Level	Domain	T. L. Method	Assessment Method
1. Identify various presentations and the natural history, onset, and prognostic features of depression across the life span.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
2. Select and monitor appropriate psychiatric medications used in treating depression.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
3. Recognize the signs and symptoms of major depression, bipolar illness, and dysthymia so that given a patient description you can recognize these syndromes.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
4. Assess a patient's risk for suicide and be able to appropriately respond to high risk patients.	SH	S/C	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
5. Assess the impact of depression upon the patient's level of function.	KH	S	Lecture/Small Group teaching	Written/Viva Voce
6. Describe major clinical, etiological, and epidemiological characteristics of panic disorder, agoraphobia, generalized anxiety disorder, social phobia, specific phobia, obsessive-compulsive disorder (OCD) and post-traumatic stress disorder (PTSD).	KH	K	Lecture/Small Group teaching	Written/Viva Voce
7. Describe anxiety disorder symptom presentations as they vary across the life span (e.g. child and elderly).	KH	K	Lecture/Small Group teaching	Written/Viva Voce
8. Identify major classes of psychiatric medications used in treating anxiety disorders and discuss potential side effects of each.	KH	K	Lecture/Small Group teaching	Written/Viva Voce

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MBBS, MD (Psychiatry)
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Professor & Head

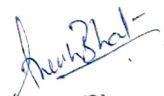
9. Select and monitor appropriate psychiatric medications used in treating anxiety disorders.	KH	K/S	Lecture/Small Group teaching	Written/Viva Voce
10. Identify the primary psychosocial therapies used to treat anxiety disorders.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
11. Understand the major models of substance dependence and implications for treatment.	K	K	Lecture/Small Group teaching	Written/Viva Voce
12. Know how to screen for alcohol and drug problems in general medical practice.	K	K	Lecture/Small Group teaching	Written/Viva Voce
13. Have working knowledge and an approach to the differential diagnosis of substance dependent patients with co-morbid psychiatric disorders.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
14. Know the signs, symptoms, clinical course, and treatment of withdrawal (outpatient detoxification) for the various drugs of abuse.	K	K	Lecture/Small Group teaching	Written/Viva Voce
15. Know the indications, contraindications, and efficacies of pharmacotherapy to treat substance abuse.	K	K	Lecture/Small Group teaching	Written/Viva Voce
16. Become knowledgeable of community resources for treatment of addiction.	SH	K	DOAD session/ Bedside clinic, Lecture/Small Group teaching	Skill Station/Practical exam/OSCE/OSPE, Written/Viva Voce
17. State the definition of psychosis and describe how to recognize and diagnose psychotic conditions.	SH/K	K	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
18. Perform an initial diagnostic evaluation of a patient with psychotic symptoms, including history and mental status examination.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
19. Summarize the epidemiology, diagnostic criteria, clinical features, course and complications of schizophrenia.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
20. Recognize the other major primary psychotic disorders including mood disorders, schizoaffective disorder, brief psychotic disorder, and delusional disorder.	K	K	Lecture/Small Group teaching	Written/Viva Voce


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21. Describe common and serious side effects of frequently used antipsychotic medications.	K	K	Lecture/Small Group teaching	Written/Viva Voce
22. Recognize the pharmacologic and psychosocial treatments of schizophrenia and other psychotic disorders.	K	K	Lecture/Small Group teaching	Written/Viva Voce
23. Describe each personality disorder cluster and name its component disorders.	K	K	Lecture/Small Group teaching	Written/Viva Voce
24. Describe the basic characteristics of each personality disorder.	K	K	Lecture/Small Group teaching	Written/Viva Voce
25. Demonstrate a working knowledge of Dialectical Behaviour Therapy (DBT).	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
26. Recognize the treatments for other personality disorders.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
27. Conduct a suicide assessment that differentiates between acute and chronic suicidal ideation.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
28. Describe major characteristics of disorders first presenting in childhood or adolescence including ADHD, Pervasive Developmental Disorders, Learning Disorders, and Mental Retardation.	K	K	Lecture/Small Group teaching	Written/Viva Voce
29. Recognize the ways in which a specific psychiatric disorder may present differently in childhood/adolescence.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
30. Conduct and interpret a child/adolescent mental status exam with a child and conduct a parent interview.	SH	K/S/A/C	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
31. Identify major classes of psychiatric medications and their pharmacokinetic principles, used in treating child and adolescent disorders and discuss potential side effects of each.	KH	K	Lecture/Small Group teaching	Written/Viva Voce


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32. Recognize the potential biological, psychological, and social impact of child abuse/neglect on development in children, and describe the legal requirements and procedure for reporting suspected child abuse/neglect in children and adolescents.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
33. Recognize medical symptoms of psychiatric disorders.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
34. Recognize psychiatric symptoms of medical disorders.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
35. Recognize, assess and manage the delirious patient.	KH	K/S	Lecture/Small Group teaching	Written/Viva Voce
36. Conduct and interpret a Mini-Mental Status Exam or MOCA to assess cognitive function.	SH	K/S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
37. Review commitment laws for involuntary treatment, and evaluate a patient's capacity to give informed consent.	SH	S	DOAD session/ Bedside clinic	Skill Station/Practical exam/OSCE/OSPE
38. Define dementia and dementia subtypes, recognize symptoms of Dementia of the Alzheimer's type (DAT), describe the typical progression for dementia, and recognize treatments for dementia.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
39. Recognize the complexity of the neuropsychiatric patient and the interactions between medical, neurological, and psychiatric illnesses.	KH	K	Lecture/Small Group teaching	Written/Viva Voce
40. Recognize, assess, and treat delirium.	KH	K	Lecture/Small Group teaching	Written/Viva Voce


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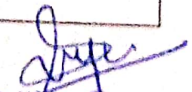


MAEER's
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Department of Anaesthesiology

PROGRAM SPECIFIC LEARNING OUTCOME- PG(MD Anesthesiology)

Learning outcome	Assessment	Activity
Cognitive domain		
Demonstrate knowledge of Anatomy related to Airway and regional anaesthesia	Viva voce	Operation theatre work
Demonstrate knowledge of Physiology of various systems and translate its application in a problem solving manner	Viva voce	Practical procedures teaching to undergraduate MBBS students. Clinical Tutorials
Demonstrate knowledge of Biochemistry relevant to homeostasis in health and diseases.	Viva voce	Practical procedures teaching to undergraduate MBBS students Clinical Tutorials
Demonstrate knowledge of commonly used drugs in anaesthesia and resuscitation.	OSPE Viva voce	microteaching
Demonstrate knowledge of 'principles of physics' that govern functions of basic anaesthesia	Viva voce	Operation theatre work
Demonstrate knowledge of importance of pre-anaesthetic assessment and optimization of a patient	Formative assessment	Case presentation
Demonstrate knowledge of pain management	Practical examination Viva	Ward work
Demonstrate knowledge of post-operative care in the post-anaesthesia recovery	Formative assessment by observation in day to day working	Recovery and ward work


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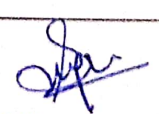
Demonstrate knowledge of principles and protocols related to Intensive Care and resuscitation according to latest guidelines.	Formative assessment by observation in day to day working	ICU posting
Plan, execute, analyse and present research work.	Thesis Oral paper presentation in conferences Log book	Workshop on research methodology

Affective Domain


Should be able to function as a part of a team	Formative assessment by observation in day to day working	Intra departmental postings within various specialities. Interaction with patients and relatives
Always adopt ethical principles	Formative assessment by observation in day to day working	Intra departmental postings within various specialities. and Interaction with patients and relatives
Develop communication skills	Formative assessment by observation in day to day working	Intra departmental postings within various specialties. Interaction with patients and relatives

Psychomotor domain

Demonstrate ability as a perioperative physician	Formative assessment by observation in day to day working	Work in Preanaesthetic opd, operation theatre and postop recovery room
Demonstrate abilities in Emergency Anaesthesia, Trauma and Resuscitation	Formative assessment DOAP OSCE	Work in operation theatre and ICU
Demonstrate ability to provide special sedation /anaesthesia requirements outside operating Room	Formative assessment DOAP OSCE	Work in Radiology Unit and for ECT.
Demonstrate abilities in the Post Anaesthesia Care Unit (PACU)	Formative assessment DOAP OSCE	Work in recovery room.
Demonstration of abilities in Intensive Care Unit	Formative assessment DOAP OSCE	Work in ICU
Demonstration of abilities in Acute and Chronic Pain Management	Formative assessment DOAP OSCE	Work in Pain Clinic.


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Demonstrate practice of Regional Anaesthesia	Formative assessment DOAP OSCE	Work in Operation Theatre.
Demonstrate practice of Thoracic Anaesthesia, Cardiovascular Anaesthesia, paediatric Anaesthesia, Transplant anaesthesia, Neuroanaesthesia	Formative assessment DOAP OSCE	Work in Operation Theatre.
Should be able to perform special skills required in practice of anaesthesia.	Log book DOAP	Work in Preanaesthetic opd, operation theatre and postop recovery room


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**PROGRAM SPECIFIC OUTCOMES (P.
Os)
OF THE THREE YEARS,
MASTER OF SURGERY (M.S E.N.T) IN
OTORHINOLARYNGOLOGY**

Compiled by Prof. Santhosh K Rajamani



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NMC GUIDELINES FOR COMPETENCY BASED POSTGRADUATE TRAINING PROGRAMME FOR MS IN OTORHINOLARYGOLOGY

The purpose of PG education is to create specialists who would provide high quality health care and advance the cause of science through research & training.

The purpose of MS ENT is to standardize Otorhinolaryngology teaching at Postgraduate level throughout the country so that it will benefit in achieving uniformity in undergraduate teaching as well and resultantly creating competent ENT Surgeons with appropriate expertise.

The purpose of this document is to provide teachers and learners illustrative guidelines to achieve defined outcomes through learning and assessment. This document was prepared by various subject-content specialists. The Reconciliation Board of Academic Committee has attempted to render uniformity without compromise to purpose and content of the document. Compromise in purity of syntax has been made to preserve the purpose and content. This has necessitated retention of "domains of learning" under the heading "competencies".

SPECIFIC LEARNING OBJECTIVES

At the end of postgraduate training the student should be able to:

1. Practice his specialty ethically keeping in mind the requirement of the patient, community and people at large.
2. Demonstrate sufficient understanding of basic sciences related to his specialty and be able to integrate such knowledge in his Clinical practice.
3. Diagnose and manage majority of conditions in his specialty (clinically and with the help of relevant investigations)

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4. Plan and advise measures for the promotive, preventive, curative and rehabilitative aspects of health and diseases in the specialty of ENT.
5. Should be able to demonstrate his cognitive skills in the field of ENT and its ancillary branches during the formative and summative evaluation processes.
6. Play the assigned role in the implementation of National Health Programs
7. Demonstrate competence in basic concepts of research methodology and writing thesis and research papers.
8. Develop good learning, communication, and teaching skills.
9. Demonstrate sufficient understanding of basic sciences and the clinical applications related to the specialty to be able to integrate this knowledge into Clinical practice. Acquire in-depth knowledge in the subject including recent advances.
10. Demonstrate that he is fully conversant with the latest diagnostics & therapeutics available.


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Basic Sciences related to Otolaryngology (Anatomy, Physiology, Biochemistry, Microbiology, Pathology and Pharmacology)

Cognitive Domain

Learning Outcome	Assessment	Activity
BROAD 1. student should have fair knowledge of basic sciences (Anatomy, Physiology, Biochemistry, Microbiology, Pathology and Pharmacology) as applied to ENT and be able to integrate such knowledge in his clinical practice.	THEORY	
Knowledge 1. Able to apply knowledge of Anatomy, Physiology, Biochemistry, Microbiology, Pathology and Pharmacology in clinical E.N.T (Cognitive) 2. Appreciate the contribution of basic sciences in practice of E.N.T (Affective)	<ul style="list-style-type: none"> • Didactic lectures • Cadaver demonstrations • Integrated learning sessions • Workshops • Blended learnings • Journal clubs, • Group discussions 	<ul style="list-style-type: none"> • Written SAQ, LAQ and MCQS • Bedside lectures • OSCE • Cadaver or Mannequin demonstrations • Mini-CEX
Topics of BASIC SCIENCES in this Cognitive domain		
<ul style="list-style-type: none"> • Physiology- Mechanism of perception of smell and taste, mechanism of breathing and voice production, lacrimation, deglutition, and salivation. • Functional tests of the nose and paranasal sinuses, mechanism of cough and sneezing. • Physics of sound, theories of hearing, mechanism of perception of sound and speech production, physiology of equilibrium and cerebral function. • Physiology of brain in connection with hearing, speech, smell and phonation. Audiologic tests like audiometry, impedance, evoked potentials, OAE, Speech audiometry. • Physiology of larynx, tracheobronchial tree and oesophagus - • Histology of mucous membranes, internal ear and other associated organs and structures, nose, Paranasal Sinuses, Nasopharynx, Larynx, Tracheo-Bronchial tree, Lymphoepithelial system. • Mechanism of immune system/immunology and genetics. • Anatomy-Embryogenesis of ear, nose and throat including palate and the larynx, 		




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Oesophagus, trachea and lungs, tongue, salivary gland Head and Neck and skull
base etc

- Parapharyngeal spaces in the neck including connective tissue barriers of larynx.
- Applied anatomy of the skull bones, accessory sinuses, external, middle and inner ears, nose, PNS, nasopharynx, meninges, brain, pharynx, larynx, trachea and bronchi, lungs, pleurae, oesophagus, and the mediastinum
- Anatomy of all cranial nerves with their functions.


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Principles and Practices of Otolaryngology, Audiology and Speech Pathology

Clinical Presentations of Common Diseases of Otology (NMC AND MUHS guidelines)

Learning Outcome	Assessment	Activity
BROAD Knowledge about Hearing loss, Otagia, Ear discharge, loss of balance, vertigo, dizziness, tinnitus, Injuries, tumors, nervous and circulatory neurological disturbances of the Ear and balance, Diagnosis and rehabilitation of the Hearing handicapped including, dispensing of hearing aid other vibrotactile aids.		
Knowledge Know about Pathology, Clinical features of Common Diseases of External Ear namely <ul style="list-style-type: none"> • Otitis Externa of 2 types • Myringitis of various types • Foreign body in the ear • Exostosis of EAC • Malignant Otitis Externa • BNOE • Congenital deformities of Pinna • Preauricular sinus • Traumatic injuries to pinna • Acute perichondritis of Pinna 	<ul style="list-style-type: none"> • Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> • Lectures • Seminars • Practical • Small group discussion
Know about Pathology, Clinical features of Common Diseases of Middle Ear namely <ul style="list-style-type: none"> • Chronic Otitis Media including Cholesteatoma • Acute Otitis Media • Serous Otitis Media • Hemotympanum • Otosclerosis and Tympanosclerosis • Tympanic membrane Perforation • Non-suppurative otitis media • Management of chronic suppurative otitis media 	<ul style="list-style-type: none"> • Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> • Lectures • Seminars • Practical • Small group discussion

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<ul style="list-style-type: none"> • Complications of infections of middle ear. • Tumors of the middle ear cleft and temporal bone • Diseases of the otic capsule- otosclerosis 		
<p>Know about Pathology, Clinical features of Common Diseases of Inner Ear namely</p> <ul style="list-style-type: none"> • Facial Nerve palsy and Bell's palsy • Deaf mutism • Ototoxicity • Sudden and fluctuant sensorineural hearing loss • Nystagmus • Vestibular neuronitis • Benign Paroxysmal Positional Vertigo (BPPV) • Meniere's Disease • Vestibular schwannoma • Otological manifestations of systemic diseases • Occupational hearing loss • Glomus tumor and other tumor of the ear • Tinnitus and hyperacusis 	<ul style="list-style-type: none"> • Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> • Lectures • Seminars • Practical • Small group discussion
<p>Skills</p>		
<ol style="list-style-type: none"> 1. Ear examination with a Headlight and Otoloscope, recognize the anatomical landmarks and perform a structured Otoscopy, Look for mobility of Tympanic membrane 2. Hearing using clinical voice tests and Tuning fork tests 3. Basic clinical balance tests including Romberg and Hallpike tests 4. Interpret Audiological investigations like Pure Tone Audiogram, Impedance Audiogram, Facial nerve stimulation test Free field Audiometry, 	<ul style="list-style-type: none"> • Daily Formative in clinical postings and Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP 	<ul style="list-style-type: none"> • Bedside lectures • Small group discussion • Ward rounds • Demonstrations in skill lab • Cadaver or Mannequin demonstration

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<p>Specialized tests of hearing including SISI, Tone decay, ABLB, Speech discrimination score etc.</p> <ol style="list-style-type: none">5. Interpret Vestibular tests like caloric testing (Water and Air) stopping test, Fukuda's test, Evoked response audiometry6. Ear irrigation for removal of wax, debris, and foreign body7. Ear Packing8. Foreign body removal from the ear9. Repair of wounds of the ear10. Mastoid dressing and bandaging11. Simple removal of aural polyp under local anaesthesia12. Drainage of auricular hematoma or abscess under local anaesthesia13. Simple myringotomy under local anaesthesia14. Excision of sebaceous or dermoid cyst under local anaesthesia15. Cortical mastoidectomy		
<p>EMERGENCY OTOTOLOGY OPERATIONS:</p> <ol style="list-style-type: none">1. Foreign body in ear2. Simple myringotomy under local anaesthesia or general anaesthesia3. Drainage of (under GA) mastoid abscess4. Repair of Pinna injuries (under GA/LA)	<ul style="list-style-type: none">• Daily Formative in clinical postings and• Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP	<ul style="list-style-type: none">• DAOP• Direct observation


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Clinical Presentations of Common E.N.T diseases of Children - PAEDIATRIC OTOLARYNGOLOGY (MUHS and NMC guidelines)

Learning Outcome	Assessment	Activity
BROAD 1. Know about Pathology, Clinical features of Common E.N.T Diseases of Children 2. Appreciate that Pediatric problems are of different patho-mechanics compared to adult and children are not miniaturized adults 3. Improving Paediatric Otolaryngological Consultation	<ul style="list-style-type: none">Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ	<ul style="list-style-type: none">LecturesSeminarsPracticalSmall group discussion
Knowledge Know about Pathology, Clinical features of Common ENT Diseases of children like <ul style="list-style-type: none">Congenital deafnessTesting Hearing in Children.Otitis Media with Effusion.Acute Suppurative Otitis Media in ChildrenChronic Suppurative Otitis Media in ChildrenForeign Bodies in the Ear Nose and ThroatTonsils & Adenoids.Stertor & StridorThe Drooling Child	<ul style="list-style-type: none">Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ	<ul style="list-style-type: none">LecturesSeminarsPracticalSmall group discussion
Know about Pathology, Clinical features of Common Otological Diseases of children like <ul style="list-style-type: none">Hearing Impairment in Preschool Children.Otitis Media with Effusion.Acute Suppurative Otitis Media in Children.Chronic Suppurative Otitis Media in Children.Surgery of Congenital Abnormalities of the External & Middle Ear.Management of Hearing Impaired Child.	<ul style="list-style-type: none">Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ	<ul style="list-style-type: none">LecturesSeminarsPracticalSmall group discussion

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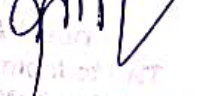


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<ul style="list-style-type: none">• Cochlear Implantation in Children.• Vestibular Disorders in Children.• Speech & Language development and pathologies like Stuttering• Foreign Bodies in the Ear		
<p>Know about Pathology, Clinical features of Common Pediatric Diseases of Nasal cavity</p> <ul style="list-style-type: none">• Pediatric Epistaxis• Foreign body in the nose• Congenital Anomalies of the Nose.• Craniofacial Anomalies.• Nasal Obstruction & Rhinorrhoea in Infants & Children.	<ul style="list-style-type: none">• Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ	<ul style="list-style-type: none">• Lectures• Seminars• Practical• Small group discussion
<p>Know about Pathology, Clinical features of Common Laryngeal and Airway Diseases of Children like</p> <ul style="list-style-type: none">• Tonsils & Adenoids.• Dental development, Orthodontics, Cleft lip & Cleft palate.• Sleep Apnoea.• Stertor & Stridor.• Congenital Disorders of Larynx, Trachea & Bronchi.• Stenosis of Larynx.• Acute Laryngeal Infections.• Foreign Bodies in Larynx & Trachea.• Tracheostomy & Decannulation.• Home care of Tracheostomised Child.• Neonatal Pulmonary Disorders.• Diseases of the Esophagus in Children.• Branchial cleft Anomalies, Thyroglossal cysts & Fistulae.• Tumours of the Head & Neck in Children.• Salivary Glands Disorders in Children.• The Drooling Child.• Juvenile Recurrent	<ul style="list-style-type: none">• Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ	<ul style="list-style-type: none">• Lectures• Seminars• Practical• Small group discussion


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<p>Respiratory Papillomatosis. (JORP)</p> <ul style="list-style-type: none"> • Paediatric Anesthesia. 		
<p>Skills</p>		
<ol style="list-style-type: none"> 1. Perform an E.N.T examination of child 2. Perform Otoscopy on a child using correct speculum size 3. Examine throat of a child with a correct size tongue spatula 4. Examine nose of a child 5. Examine the Neck of a child and look for Lymph node enlargement and swellings 	<ul style="list-style-type: none"> • Daily Formative in clinical postings and Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP 	<ul style="list-style-type: none"> • Bedside lectures • Small group discussion • Ward rounds • Demonstrations in skill lab • Cadaver or Mannequin demonstration
<ol style="list-style-type: none"> 6. Ear wash 7. Simple myringotomy under local anaesthesia 8. Drainage of auricular hematoma or abscess under local anaesthesia 9. Anterior Nasal packing of child with Epistaxis 10. Foreign bode removal from E.N.T under vision 11. Nasal suction and irrigation 12. Counseling parents of a deaf-mute/ congenital deaf child 13. Counselling parents for BAHA/ Cochlear impalntation 	<ul style="list-style-type: none"> • Daily Formative in clinical postings and Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP • Cadaver dissections • Mannequin demonstration 	<ul style="list-style-type: none"> • Demonstrations in skill lab • Cadaver or Mannequin demonstration


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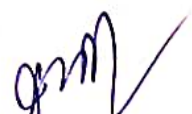


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Clinical Presentations of Common Laryngeal, Head and Neck diseases (MUHS and
NMC guidelines)

Learning Outcome	Assessment	Activity
BROAD 1. Know about Pathology, Clinical features of Common Laryngeal, Airway, and food passage diseases like <ul style="list-style-type: none">• Acute & Chronic Infections of Pharynx & Tonsils.• Acute & Chronic Laryngitis• Disorders of Voice• Pharyngeal Pouches• Angiofibroma• Diseases of Thyroid & Parathyroid Gland• Salivary gland tumors• Disease of Oesophagus	<ul style="list-style-type: none">• Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ	<ul style="list-style-type: none">• Lectures• Seminars• Practical• Small group discussion
Knowledge Know about Pathology, Clinical features of Common laryngeal Diseases of children like <ul style="list-style-type: none">• Foreign Bodies in Throat• Tonsils & Adenoids.• Stertor & Stridor• The Drooling Child• Acute & Chronic Infections of Pharynx & Tonsils.• Acute & Chronic Laryngitis.• Disorders of Voice.• Management of Obstructed Airway & Tracheostomy.• Trauma & Stenosis of Larynx.• Neurological Affections of Larynx & Pharynx.• Pharyngeal Pouches.• Tumours of the Larynx.	<ul style="list-style-type: none">• Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ	<ul style="list-style-type: none">• Lectures• Seminars• Practical• Small group discussion


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<p>Know about Pathology, Clinical features of Common Esophageal Diseases of children like</p> <ul style="list-style-type: none">• Foreign Bodies in the Oesophagus• Achalasia cardia• Barret's oesophagitis• GERD• Dysphagia• Globus hystericus	<ul style="list-style-type: none">• Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ	<ul style="list-style-type: none">• Lectures• Seminars• Practical• Small group discussion
<p>Know about Pathology, Clinical features of Common Head and Neck diseases</p> <ul style="list-style-type: none">• Craniofacial Anomalies.• Cervical fascia, facial spaces in neck, retro-pharyngeal and parapharyngeal• Abscesses• Goitre and diseases of the thyroid and carcinoma of thyroid• Large blood vessels in neck, thoracic duct development of major cervical and thoracic blood vessels.• Head and neck reconstructive surgery	<ul style="list-style-type: none">• Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ	<ul style="list-style-type: none">• Lectures• Seminars• Practical• Small group discussion
<p>Skills</p>		
<ol style="list-style-type: none">1. Perform Examination & Endoscopy of the Upper Aerodigestive Tract and Oral Cavity.2. Indirect Laryngoscopy Examination (IDL)3. Obtain a throat swab for PCR, Culture and Sensitivity	<ul style="list-style-type: none">• Daily Formative in clinical postings and Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP	<ul style="list-style-type: none">• Bedside lectures• Small group discussion• Ward rounds• Demonstrations in skill lab• Cadaver or Mannequin demonstration
<ol style="list-style-type: none">4. Drainage of quinsy5. Endotracheal intubation6. Foreign body in pharynx7. Foreign body in esophagus8. Foreign body in laryngotracheobronchial tree9. Drainage of (under GA/LA) Parapharyngeal abscess10. Drainage of (under GA/LA) Retropharyngeal abscess11. Drainage of (under GA/LA) Parotid abscess	<ul style="list-style-type: none">• Daily Formative in clinical postings and Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP• Cadaver dissections• Mannequin demonstration	<ul style="list-style-type: none">• DAOP• Direct observation

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12. Drainage of (under GA/LA Ludwig's angina		
13. Reduction and fixation under general anaesthesia Fracture of facial bone		
14. Fracture of laryngeal framework		
15. Removal of submandibular duct stone under local anaesthesia		


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Clinical Presentations of Common Rhinology diseases (MOH and NMC guidelines)

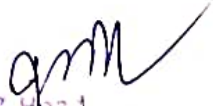
Learning Outcome	Assessment	Activity
<p>MOH</p> <p>Knowledge about</p> <ul style="list-style-type: none"> 1. Anatomic nasal septum 1. Anatomic sinuses 1. Rhinoscopy 1. Nasal cavity and nasal path 1. Nasal polyps 1. Types of Rhinitis 1. Rhinoscopy 1. Types of Rhinitis 1. Nasal surgery 1. Physiology of olfaction and taste 1. Medical Management of Rhinitis 1. Complications of Rhinitis 1. Cross-sectional fund Rhinoscopy 1. Anatomy of Facial skeleton 		
<p>Knowledge</p> <p>Know about Pathology Clinical features of common diseases of External Nose</p> <ul style="list-style-type: none"> 1. Anatomic nasal pyramid 1. External nose deformity 1. External rhinitis 1. Allergic rhinitis 1. Types of rhinitis 1. Anatomy of Nasal bones 1. Rhinoplasty operation 	<ul style="list-style-type: none"> 1. Formative & Summative examination comprising of MCQ, PAQ, SAQ & LAQ 1. Clinical discussion 1. Mannequin demonstration 	<ul style="list-style-type: none"> 1. Lectures 1. Seminars 1. Practical 1. Small group discussion
<p>Know about Pathology Clinical features of common Diseases of Nasal septum</p> <ul style="list-style-type: none"> 1. Septal Deviation 	<ul style="list-style-type: none"> 1. Formative & Summative examination comprising of MCQ 	<ul style="list-style-type: none"> 1. Lectures 1. Seminars 1. Practical 1. Small group



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Clinical Presentations of Common Rhinology diseases (MUHS and NMC guidelines)

Learning Outcome	Assessment	Activity
BROAD Knowledge about <ul style="list-style-type: none"> • Deviated nasal septum, • Acute and Chronic Rhinosinusitis, Epistaxis, • Headache and Facial pain, • nasal polyp, • Tumors of Paranasal Sinuses, granulomatous disease of Nose like Rhinosporidiosis, • Atrophic rhinitis • Nasal myiasis • Disorders of Olfaction and taste • Surgical Management of Sinusitis. • Complications of Sinusitis. • Cerebrospinal Fluid Rhinorrhoea. • Fracture of Facial Skeleton. 		
Knowledge		
Know about Pathology, Clinical features of Common Diseases of External Nose <ul style="list-style-type: none"> • Deviated nasal pyramid • Saddle nose deformity • Le fort fractures • NOE fractures • Tripod fractures • Fracture of Nasal bones • Rhinoplasty operation 	<ul style="list-style-type: none"> • Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ • Cadaver dissections Mannequin demonstration 	<ul style="list-style-type: none"> • Lectures • Seminars • Practical • Small group discussion
Know about Pathology, Clinical features of Common Diseases of Nasal septum <ul style="list-style-type: none"> • Septal Perforation • Septal Hematoma and Abscess • Septal fracture • Deviated nasal septum 	<ul style="list-style-type: none"> • Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> • Lectures • Seminars • Practical • Small group discussion


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<p>Know about Pathology, Clinical features of Common Diseases of Nasal cavity</p> <ul style="list-style-type: none"> • Congenital Anomalies of the Nose • Acute and Chronic Rhinosinusitis, • Abnormalities of olfaction and taste • Food Allergy & Intolerance • Epistaxis • Foreign body in the nose • Headache and facial pain, • Nasal polyp, • Cerebrospinal Fluid Rhinorrhoea • Complications of Sinusitis • Neoplasms of Nose and Paranasal sinuses, • Granulomatous disease of Nose like Rhinosporidiosis and atrophic rhinitis 	<ul style="list-style-type: none"> • Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ • Cadaver dissections Mannequin demonstration 	<ul style="list-style-type: none"> • Lectures • Seminars • Practical • Small group discussion
<p>Know about Pathology, Clinical features of Common diseases of Nasopharynx like</p> <ul style="list-style-type: none"> • Juvenile Nasopharyngeal Angiofibroma. • Nasopharynx (the postnasal space) thornwald's cyst • Adenoiditis and adenoid hypertrophy 	<ul style="list-style-type: none"> • Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> • Lectures • Seminars • Practical • Small group discussion
<p>Skills</p>		
<ol style="list-style-type: none"> 1. Nose examination with a Headlight and Thudicum's speculum, inspection of anatomical landmarks of nose in a systematic manner 2. Palpation/probing of Nasal masses like Polyps and recognize the inference 3. Posterior Rhinoscopy Examination 	<ul style="list-style-type: none"> • Daily Formative in clinical postings and Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP 	<ul style="list-style-type: none"> • Bedside lectures • Small group discussion • Ward rounds • Demonstrations in skill lab • Cadaver or Mannequin demonstration
<ol style="list-style-type: none"> 4. Perform an examination of Paranasal sinuses and recognize Sinusitis by pain/tenderness of PNS at the anatomical landmarks of face 	<ul style="list-style-type: none"> • Daily Formative in clinical postings and Summative clinical examinations, Clinical examination, Direct observation, 	<ul style="list-style-type: none"> • Bedside lectures • Small group discussion • Ward rounds • Demonstrations in skill lab

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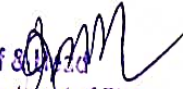
<ol style="list-style-type: none">5. Anterior Nasal Packing in management of Epistaxis6. Diagnostic Nasal Endoscopy7. Nasal wash or irrigation8. Simple removal of nasal polyp under local anaesthesia9. Excision of sebaceous or dermoid cyst under local anaesthesia10. Nasal cauterization (chemical or electric) under local anaesthesia11. Removal of bleeding polypus of nasal septum under local anaesthesia	OSCE, Viva, Grand rounds, DOAP	<ul style="list-style-type: none">• Cadaver or Mannequin demonstration
<p>EMERGENCY RHINOLOGY OPERATIONS</p> <ol style="list-style-type: none">12. Foreign body in nose13. Drainage of (under GA/LA) Septal hematoma14. Drainage of (under GA/LA) Septal abscess15. Reduction and fixation under (GA/LA) Fracture of nasal bone16. Reduction and fixation under (GA/LA) Fracture of nasal septum17. Active epistaxis management Packing: anterior/posterior18. Cauterization: chemical or electric	<ul style="list-style-type: none">• Direct supervised learning• Daily Formative in clinical postings and• Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP	<ul style="list-style-type: none">• DAOP• Direct observation

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Common Operations done in E.N.T- ELECTIVE Operative work for M.S students (MUHS guidelines)

Learning Outcome	Assessment	Activity
<p>BROAD</p> <ul style="list-style-type: none"> ➤ Able to perform Common Operations done in Department of E.N.T on a day today basis ➤ Perform minor surgical procedures like ear syringing ear Dressing, nasal packing etc. 	<ul style="list-style-type: none"> • OSCE and VIVA VOCE • Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> • Direct observation in OT • Bedside lectures • Video demonstrations • Cadaver demonstrations • Mannequin demonstration
<p>Knowledge</p> <p>Know about Pathology, Clinical features of Common operations done in ENT- Common indications, Techniques, Contraindications, Complications, incidence of Complications, post-operative care, and follow-up</p> <ul style="list-style-type: none"> • Adenoidectomy • Tonsillectomy • Septoplasty and SMR • Caldwell-Luc operation • Myringoplasty and Tympanoplasty I to VI • Excision of pre-auricular sinus, fistula or cyst • Modified radical mastoidectomy • Radical mastoidectomy • Chonchomeatoplasty • Biopsy for diagnosis of carcinoma of tongue, etc. • Direct laryngoscopy • Neck node biopsy • Partial inferior turbinectomy (surgical or diathermy) • Functional endoscopic sinus surgery • Uvulopalatopharyngoplasty • Excisional biopsy of tonsillar mass • Excision of thyroglossal duct cyst • Submandibular sialadenectomy • Excision of ranula • Panendoscopy (unilateral fixed cord or metastatic cervical lymph node with unknown site) 	<ul style="list-style-type: none"> • OSCE and VIVA VOCE • Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> • Direct observation in OT • Bedside lectures • Video demonstrations • Cadaver demonstrations • Mannequin demonstration

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Skills		
<p>OTOLOGY</p> <ol style="list-style-type: none"> 1. Simple myringotomy under general anaesthesia 2. Myringotomy with insertion of pressure equalization tubes 3. Simple removal of aural polyp under general anaesthesia 4. Cortical mastoidectomy 5. Myringoplasty (repair of tympanic membrane perforation without exploration of ossicular chain which were intact) 6. Tympanoplasty type I (repair of tympanic membrane perforation with exploration of ossicular chain which were intact) 7. Excision of pre-auricular sinus, fistula or cyst 8. Modified radical mastoidectomy 9. Radical mastoidectomy 10. Chonchomeatoplasty 11. Tympanoplasty type II,III,IV (repair of tympanic membrane perforation with reconstruction of ossicular chain which were missing) 	<ul style="list-style-type: none"> • Daily Formative in clinical postings and Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP • Cadaver dissections Mannequin demonstration 	<ul style="list-style-type: none"> • Bedside lectures • Small group discussion • Ward rounds • Demonstrations in skill lab • Cadaver or Mannequin demonstration •
<p>NASAL SURGERY</p> <ol style="list-style-type: none"> 1. Submucous resection 2. Partial inferior turbinectomy (surgical or diathermy) 3. Simple nasal polypectomy GA/LA 4. Simple removal of antrochoanal polyp GA/LA 5. Removal of bleeding polypus of nasal septum under general anaesthesia 6. Electric cauterization of nose GA/LA 7. Caldwell Luc's operation 8. Diagnostic sinuscopy under LA 	<ul style="list-style-type: none"> • Daily Formative in clinical postings and Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP • Cadaver dissections • Mannequin demonstration 	<ul style="list-style-type: none"> • Bedside lectures • Small group discussion • Ward rounds • Demonstrations in skill lab • Cadaver or Mannequin demonstration •

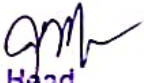
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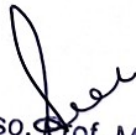
9. Canalization of congenital choanal atresia 10. Septorhinoplasty 11. External frontoethmoidectomy 12. Functional endoscopic sinus surgery 13. Excision of dental of dentigerous cyst		
PHARYNGEAL OPERATIONS 1. Adenoidectomy 2. 2 Tonsillectomy 3. Uvulopalatopharyngoplasty 4. Excisional biopsy of tonsillar mass	<ul style="list-style-type: none"> • Daily Formative in clinical postings and Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP • Cadaver dissections • Mannequin demonstration 	<ul style="list-style-type: none"> • Bedside lectures • Small group discussion • Ward rounds • Demonstrations in skill lab • Cadaver or Mannequin demonstration •
NECK OPERATIONS 1. Excision of thyroglossal duct cyst 2. Submandibular sialadenectomy 3. Excision of ranula	<ul style="list-style-type: none"> • Daily Formative in clinical postings and Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP • Cadaver dissections • Mannequin demonstration 	<ul style="list-style-type: none"> • Bedside lectures • Small group discussion • Ward rounds • Demonstrations in skill lab • Cadaver or Mannequin demonstration •
ENDOSCOPIES 1. Direct nasopharyngoscopy 2. Direct Hypopharyngolaryngoscopy 3. Oesophagoscopy (diagnostic or stricture dilation) 4. Microlaryngoscopy (excision of vocal cord polyp; nodule; cyst or Reinke's edema) 5. Panendoscopy (unilateral fixed cord or metastatic cervical lymph node with unknown primary)	<ul style="list-style-type: none"> • Daily Formative in clinical postings and Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP • Cadaver dissections • Mannequin demonstration 	<ul style="list-style-type: none"> • Bedside lectures • Small group discussion • Ward rounds • Demonstrations in skill lab • Cadaver or Mannequin demonstration •


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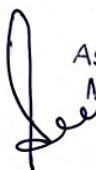
PROGRAM SPECIFIC LEARNING OUTCOME- POST GRADUATE

(MD Medicine)

Learning outcome	Assessment	Activity
Cognitive domain		
1. Detailed history taking with relevant examination and management plan	<ul style="list-style-type: none"> • Viva voce • End of term exam 	<ul style="list-style-type: none"> • Ward work and case presentation
2. Clinic pathologic and radiological co relation and treatment plan.	<ul style="list-style-type: none"> • Clinical chart interpretation • Viva • Log book 	<ul style="list-style-type: none"> • Case based discussion • Ward visits • Discussion of cases with Lab department and Radiology dept
3. Analysing complicated cases and cases having multiple organ involvement . Management including medical as well as surgical treatment	<ul style="list-style-type: none"> • Clinical case examination • Viva voce • Log book 	<ul style="list-style-type: none"> • Interdepartmental case presentation • Morbidity and mortality meets. • Microteaching
4. Cases requiring the super specialty in depth knowledge and complicated cases .	<ul style="list-style-type: none"> • Clinical case examination • Viva voce • Log book 	<ul style="list-style-type: none"> • Departmental meetings • Case presentation • Seminar s • Logbook • Super specialty clinics
5. Should be able to teach Medicine to undergraduates, nurses and paramedical staff	<ul style="list-style-type: none"> • Microteaching 	<ul style="list-style-type: none"> • Practical teaching to undergraduate MBBS students • Teaching paramedical staff and students
6. Plan, execute, analyse and present research work.	<ul style="list-style-type: none"> • Thesis • Oral paper presentation in conferences • Log book 	<ul style="list-style-type: none"> • Workshop on research methodology • Attending national conferences • Platform and poster presentation • Basic Course in Biomedical tresearch
7. Make and record observations systematically and maintain accurate patient records .. deductive reasoning and drawing inferences from clinical and lab data	<ul style="list-style-type: none"> • Formative assessment by observation in day to day working 	<ul style="list-style-type: none"> • Posting rotation under various teachers.
Affective Domain		
1. Develop communication skills to word reports and professional opinion as well as to interact with patients, relatives, peers and paramedical staff, and for effective teaching	<ul style="list-style-type: none"> • Formative assessment by observation in day to day working 	<ul style="list-style-type: none"> • Intra departmental postings in various sections. • Interaction with patients and relatives


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Psychomotor Domain		
1. Able to do basic ward procedures like pleural and ascitic tapping liver and kidney biopsy.	<ul style="list-style-type: none"> • Skill assessment in ward procedures 	<ul style="list-style-type: none"> • Daily ward procedures • Utilization of skill lab
2. Able to do icu procedures like intubation and central line insertion planning the critical care of the patients.	<ul style="list-style-type: none"> • Skill assessment in ICU procedures • Viva voce 	<ul style="list-style-type: none"> • Daily ICU procedures • Skill Lab


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PGDMLT

PROGRAM SPECIFIC LEARNING OUTCOME- DMLT (BIOCHEMISTRY)

Learning Outcome	Assessment	Activity
Knowledge		
1. Explain the basis and rational of biochemical tests	<ul style="list-style-type: none"> Formative & Summative examination, comprising of SAQ & LAQ 	<ul style="list-style-type: none"> Lectures Practicals Small group discussion
2. Understand the mechanism and overview of different metabolism	<ul style="list-style-type: none"> Formative & Summative examination, comprising of SAQ & LAQ Viva 	<ul style="list-style-type: none"> Lectures Practicals Tutorials
3. Use of commonly use equipments/ techniques in biochemistry lab	<ul style="list-style-type: none"> Formative & Summative examination comprising of SAQ & LAQ Viva Practical examination OSPE 	<ul style="list-style-type: none"> Small group learning
4. Understand principles of special techniques and develop a logical approach in their diagnosis and management.	<ul style="list-style-type: none"> Formative & Summative examination, comprising of SAQ & LAQ 	<ul style="list-style-type: none"> Lectures Tutorials
5. Exposure to CCL procedures & hand on training with various equipment.	<ul style="list-style-type: none"> Formative & Summative examination, comprising of SAQ & LAQ 	<ul style="list-style-type: none"> Lectures Demonstrations
Skills		
1. Perform various biochemical diagnostic laboratory tests	<ul style="list-style-type: none"> Practical examination 	<ul style="list-style-type: none"> Small group learning Demonstration of procedure
2. Demonstrations and standardization of various estimations	<ul style="list-style-type: none"> Viva 	<ul style="list-style-type: none"> Interpretation of lab test
3. Perform simple bedside tests on blood, urine and other biological fluid samples.	<ul style="list-style-type: none"> Practical examination and viva 	<ul style="list-style-type: none"> Demonstration of various tests and student performing under supervision
4. Collection & storage of different biological fluids. Exposure to biomedical waste & quality control in labs disorder.	<ul style="list-style-type: none"> Practical examination and viva 	<ul style="list-style-type: none"> Small group learning
5. Understand biochemical/physiological disturbances that occur as a result of disease in collaboration with pre-clinical departments.	<ul style="list-style-type: none"> Formative & Summative examination, comprising of SAQ & LAQ Viva 	<ul style="list-style-type: none"> Lectures Integration with other departments


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PROGRAM SPECIFIC LEARNING OUTCOME - PG DMLT (PATHOLOGY)

Learning outcome	Assessment	Activity
1. Able to describe principles of technical procedures of diagnostic hematological, cytological, histopathological and blood banking tests	<ul style="list-style-type: none"> Formative & Summative assessment (BAQ, SAQ & LAQ) Practical examination Viva 	<ul style="list-style-type: none"> Lectures Demonstration of procedures in practical
2. Perform tests on blood, urine, stool and body fluids and their interpretation	<ul style="list-style-type: none"> Formative & Summative assessment (BAQ, SAQ & LAQ) Practical examination Viva 	<ul style="list-style-type: none"> Lectures Demonstration of procedures in practical(DOAP)
3. Perform histo techniques – Tissue processing, section cutting, routine and special stains	<ul style="list-style-type: none"> Practical examination Viva Formative & Summative assessment (BAQ, SAQ & LAQ) 	<ul style="list-style-type: none"> Lectures Demonstration of procedures in practical(DOAP)
4. Perform blood banking tests – blood group, cross-matching, Coombs test	<ul style="list-style-type: none"> Practical examination Viva Formative & Summative assessment (BAQ, SAQ & LAQ) 	<ul style="list-style-type: none"> Lectures, Posting in Blood Bank Demonstration of procedures in practical(DOAP)
5. Understand and explain about factors in causation of hematological disorders	<ul style="list-style-type: none"> Formative & Summative examination (BAQ, SAQ & LAQ) 	<ul style="list-style-type: none"> Lectures
6. Able to identify vital organs on gross and microscopic examination.	<ul style="list-style-type: none"> Practical examination Viva 	<ul style="list-style-type: none"> Small group teaching during practical
7. Able to tell about working, maintenance and use of the instruments in hematology and histopathology	<ul style="list-style-type: none"> Practical examination Viva Formative & Summative assessment (BAQ, SAQ & LAQ) 	<ul style="list-style-type: none"> Intradepartmental posting in hematology, histopathology, clinical pathology, cytology and blood bank
8. Able to understand laboratory management, receiving and recording of specimens and maintaining of records	<ul style="list-style-type: none"> Formative & Summative assessment (BAQ, SAQ & LAQ) Practical examination Viva 	<ul style="list-style-type: none"> Intradepartmental posting in hematology, histopathology, clinical pathology, cytology and blood bank

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**PROGRAM SPECIFIC LEARNING OUTCOME - PG DMLT
(MICROBIOLOGY)**

Learning outcome	Assessment	Activity
1. Able to describe principles of technical procedures of diagnostic Bacteriology, Mycology, Parasitology, Immunology & Virology	<ul style="list-style-type: none"> • Formative & Summative assessment (BAQ, SAQ & LAQ) • Practical examination • Viva 	<ul style="list-style-type: none"> • Lectures • Demonstration of procedures in practical
2. Perform tests on various clinical specimens such as urine, pus, blood, sputum, stool, serum, body fluids and their interpretation	<ul style="list-style-type: none"> • Formative & Summative assessment (BAQ, SAQ & LAQ) • Practical examination • Viva 	<ul style="list-style-type: none"> • Lectures • Demonstration of procedures in practical DOAP
3. Able to prepare routinely required culture media e.g. BA, MAC, CH, MH, NA, & also special media	<ul style="list-style-type: none"> • Practical examination • Viva 	<ul style="list-style-type: none"> • Lab Posting • DOAP
4. Able to perform culture techniques, biochemicals and ABST	<ul style="list-style-type: none"> • Practical examination • Viva 	<ul style="list-style-type: none"> • Lab Posting • DOAP

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<p>5. Able to tell about working, maintenance and use of the microscope and instruments used in Bacteriology, Virology, Mycology, Immunology. Parasitology and Mycology Lab</p>	<ul style="list-style-type: none"> • Practical examination • Viva • Formative and Summative assessment (BAQ,SAQ & LAQ) 	<ul style="list-style-type: none"> • Intradepartmental posting in Bacteriology, Virology, Mycology, Immunology. Parasitology and Mycology
<p>6. Able to understand laboratory management, receiving and recording of specimens and maintaining of records</p>	<ul style="list-style-type: none"> • Practical examination • Viva • Formative and Summative assessment • (BAQ,SAQ & LAQ) 	<p>Intradepartmental posting in Bacteriology, Virology, Mycology, Immunology. Parasitology and Mycology</p>

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CCMP

PROGRAM SPECIFIC LEARNING OUTCOME- CCMP

Dept. of Pharmacology

Learning Outcome	Assessment	Activity
Knowledge		
Describe Absorption, distribution, Metabolism, Excretion of drugs	<ul style="list-style-type: none"> Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> Lectures Seminars Small group discussion
Describe principles of Pharmacovigilance & ADR reporting systems	<ul style="list-style-type: none"> Formative & Summative examination comprising of MCQ, BAQ, SAQ & LAQ Viva Practical examination OSPE 	<ul style="list-style-type: none"> Small group learning practical
Describe the mechanisms of action, types, doses, side effects, indications and contraindications of antihypertensive drugs and drugs used in shock	<ul style="list-style-type: none"> Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> Lectures Case based discussion Tutorials
4. Describe the mechanisms of action, types, doses, side effects, indications and contraindications of drugs used in hematological disorders like: <ol style="list-style-type: none"> Drugs used in anemias Colony stimulating factors 	<ul style="list-style-type: none"> Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ 	<ul style="list-style-type: none"> Lectures Seminars by students Case based discussion
Describe the mechanism of action, types, doses, side effects, indications and contraindications of the drugs used in malaria, amebiasis and intestinal helminthiasis	6. Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ	<ul style="list-style-type: none"> Lectures Case based discussion Tutorials
Skills		
Demonstrate understanding of the use of various dosage forms (oral/local/parenteral: solid/liquid)	<ul style="list-style-type: none"> Skill assessment 	<ul style="list-style-type: none"> Small group learning DOAP session
Prepare oral rehydration solution from ORS packet and explain its use.	<ul style="list-style-type: none"> Skill assessment 	<ul style="list-style-type: none"> Small group learning DOAP session
Perform a critical evaluation of the drug promotional literature	<ul style="list-style-type: none"> OSPE 	<ul style="list-style-type: none"> Small group learning

Communicate with the patient with empathy and ethics on all aspects of drug use	<ul style="list-style-type: none">• Skill station	<ul style="list-style-type: none">• Small group learning.
5. Administer drugs through various routes in a simulated environment using mannequins	<ul style="list-style-type: none">• Skill assessment	<ul style="list-style-type: none">• DOAP session



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