

# METHODS OF ASSESSMENT OF LEARNING OUTCOME AND GRADUATE ATTRIBUTES

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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


## ASSESSMENT METHODS OF LEARNING OUTCOME – I MBBS (ANATOMY)

Sr.no	Learning outcome Knowledge	Assessment
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"> <li>• Draw &amp; label test</li> <li>• Formative assessment on Google Classroom –scenario based MCQ</li> <li>• Part completion test theory &amp; practical's</li> <li>• MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Summative assessment</li> </ul>
2.	Describe and discuss the structural & functional correlation of Microscopic anatomy of gastrointestinal tract.	<ul style="list-style-type: none"> <li>• Draw &amp; label test</li> <li>• Formative assessment on Google Classroom scenario based MCQ</li> <li>• Part completion test</li> <li>• Weekly Spots</li> <li>• MCQ, BAQ &amp; SAQ</li> <li>• Summative assessment</li> </ul>
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"> <li>• Formative assessment on Google Classroom</li> <li>• Part completion test - -MCQ, BAQ, SAQ &amp; LAQ</li> <li>• OSPE</li> <li>Summative assessment</li> </ul>

  
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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"> <li>• Formative assessment on Google Classroom</li> <li>• Short answer question test</li> <li>• Draw &amp; label test</li> <li>• Part completion test - MCQ, BAQ, SAQ &amp; LAQ</li> <li>• OSPE</li> <li>• Summative assessment</li> </ul>
5.	Describe the parts, attachments, ossification & applied aspect of bones of the Superior Extremity.	<ul style="list-style-type: none"> <li>• Osteology test</li> <li>• Part completion osteology viva</li> <li>• OSPE</li> <li>• Summative assessment</li> </ul>

Sr.no	Learning outcome Knowledge	Assessment
6.	Describe the anatomy of Pleura, correlate the gross and embryological aspects and their clinical significance	<ul style="list-style-type: none"> <li>• Draw &amp; label test</li> <li>• Formative assessment on Google Classroom</li> <li>• MCQ, BAQ, SAQ</li> <li>• OSPE</li> <li>• Summative assessment</li> </ul>
7.	Describe and discuss the Veins of the inferior extremity. Discuss the varicose veins and its anatomical basis	<ul style="list-style-type: none"> <li>• Formative assessment on Google Classroom</li> <li>• BAQ, SAQ &amp; LAQ</li> <li>• OSPE</li> <li>• Summative assessment</li> </ul>
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"> <li>• Formative assessment on Google Classroom</li> <li>• Part completion test</li> <li>• OSPE</li> <li>• Summative assessment</li> </ul>

  
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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"> <li>• Formative assessment on Google Classroom</li> <li>• Short answer question test</li> <li>• Draw &amp; label test</li> <li>• MCQ, SAQ &amp; BAQ</li> </ul>
10.	Describe & Discuss the gross features, Blood supply & embryology of heart. Discuss the anatomical basis of cardiovascular disease.	<ul style="list-style-type: none"> <li>• Formative assessment on Google Classroom</li> <li>• Short answer question test</li> <li>• Draw &amp; label test</li> <li>• MCQ, SAQ &amp; BAQ</li> </ul>

Sr.no	Learning outcome Skill	Assessment
1.	Describe the living anatomy of superior extremity & its clinical correlations.	<ul style="list-style-type: none"> <li>• Viva</li> <li>• OSPE</li> </ul>
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"> <li>• Formative assessment on Google Classroom</li> <li>• BAQ, SAQ &amp; LAQ</li> <li>• OSPE</li> <li>• Viva</li> </ul>

  
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**ASSESSMENT METHODS OF LEARNING OUTCOME – I MBBS (PHYSIOLOGY)**

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



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**ASSESSMENT METHODS OF LEARNING OUTCOME- I MBBS (BIOCHEMISTRY)**

Learning Outcome Knowledge	Assessment
1. Explain the Biochemical basis of life	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
2. Describe the overview of different metabolism	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva</li> <li>• Log book</li> </ul>
3. Nutrition – Clinical significance	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva</li> <li>• Practical examination</li> <li>• OSPE</li> </ul>
4. Understanding of molecular biology	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
5. Advance biochemistry and their role in diagnosis and management	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• OSPE</li> </ul>
<b>Skills</b>	
1. Biochemical lab investigation	<ul style="list-style-type: none"> <li>• Practical examination</li> <li>• Log book</li> </ul>
2. Collection & storage of different biological fluids. Exposure to biomedical waste & quality control in labs	<ul style="list-style-type: none"> <li>• Pre and post MCQ test</li> <li>• OSPE</li> </ul>
3. Qualitative and quantitative experiments	<ul style="list-style-type: none"> <li>• Practical examination and viva</li> </ul>



4. Perform simple bedside tests on blood, urine and other biological fluid samples.	<ul style="list-style-type: none"><li>• Practical examination</li><li>• Log book</li></ul>
5. Exposure to various instruments CCL	<ul style="list-style-type: none"><li>• Formative &amp; Summative examination, comprising of MCQ,BAQ,SAQ &amp; LAQ</li><li>• Viva</li></ul>

  
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## Phase II

### ASSESSMENT METHODS OF LEARNING OUTCOME- II MBBS (PHARMACOLOGY)

Learning Outcome Knowledge	Assessment
Describe Absorption, distribution, Metabolism, Excretion of drugs	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
Describe principles of Pharmacovigilance & ADR reporting systems	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva</li> <li>• Practical examination</li> <li>• OSPE</li> </ul>
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"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
<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"> <li>1. Drugs used in anemias</li> <li>2. Colony stimulating factors</li> </ol>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
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
<b>Skills</b>	
Demonstrate understanding of the use of various dosage forms (oral/local/ parenteral: solid/liquid)	<ul style="list-style-type: none"> <li>• Skill assessment</li> </ul>

Prepare oral rehydration solution from ORS packet and explain its use.	<ul style="list-style-type: none"> <li>• Skill assessment</li> </ul>
Perform a critical evaluation of the drug promotional	<ul style="list-style-type: none"> <li>• OSPE</li> </ul>

<b>Literature</b>	
Communicate with the patient with empathy and ethics on all aspects of drug use	<ul style="list-style-type: none"> <li>• Skill station</li> </ul>
Administer drugs through various routes in a simulated environment using mannequins	<ul style="list-style-type: none"> <li>• Skill assessment</li> </ul>



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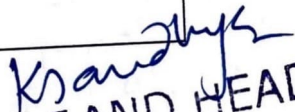
**ASSESSMENT METHODS OF LEARNING OUTCOME- II MBBS (FMT)**

<b>Sr.No</b>	<b>Learning Outcome Knowledge</b>	<b>Assessment</b>
1	Comprehend the Criminal Administration Justice System & Medical Jurisprudence.	Formative AssessmentAnd Summative Assessment MCQ, SAQ, LAQ
2	Know Medico Legal Duties of a Registered Medical Practitioner.	Formative AssessmentAnd Summative Assessment MCQ, SAQ, LAQ
3	Be competent to examine and prepare report or certificate in medico legal cases/situations in accordance with the law of Land.	Formative AssessmentAnd Summative Assessment MCQ, SAQ, LAQ
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 AssessmentAnd Summative Assessment MCQ, SAQ, LAQ
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 AssessmentAnd Summative Assessment MCQ, SAQ, LAQ
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 AssessmentAnd Summative Assessment MCQ, SAQ, LAQ

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
2	Diagnose and treat common emergencies in poisoning and manage chronic toxicity.	Practical examination Eg: Alcohol Intoxication case
3	Medico legal autopsy examination	Viva , SAQ, LAQ
4	Observe the principles of Bio Ethics & Medical Ethics	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ
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

### ASSESSMENT METHODS OF LEARNING OUTCOME- II MBBS (MICROBIOLOGY)

Learning Outcome Knowledge	Assessment
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"> <li>• Formative &amp; Summative examination, comprising of MCQs, BAQs, SAQs &amp; LAQs</li> </ul> Viva - QSPE
Understand commensal, opportunistic and pathogenic organisms of human body and describe host parasite relationship.	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva- QSPE</li> </ul>
Know and describe the pathogenesis of diseases caused by microorganisms.	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising BAQ, SAQ &amp; LAQ</li> </ul>
State the sources and modes of transmission of pathogenic and opportunistic microorganisms including knowledge of insect vectors & their role in transmission of infectious diseases.	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
Choose appropriate laboratory investigations required for clinical diagnosis	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva</li> <li>• Choose appropriate culture media/metrical for cultivation of microorganism</li> </ul>

  
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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"> <li>• Gram Staining</li> <li>• ZN staining</li> <li>• OSPE, Viva</li> </ul>
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"> <li>• Special staining</li> <li>• Culture methods</li> <li>• Biochemical reactions</li> <li>• ABST- Viva</li> </ul>
Perform simple laboratory tests, which help to arrive at rapid diagnosis.	<ul style="list-style-type: none"> <li>• Gram stain &amp; ZN stain stool exam, KoH munt serological rapid tests</li> <li>• Practical examination and viva</li> </ul>
Be conversant with proper methods of collection, storage & transport of clinical material for microbiological investigations.	<p>MCQ Viva</p>
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"> <li>• SAQS, MCQs</li> <li>• Viva</li> </ul>
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"> <li>• SAQS, MCQs</li> <li>• Viva</li> <li>•</li> </ul>
Recommend laboratory investigations regarding bacteriological examination of food, water, milk and air.	<ul style="list-style-type: none"> <li>• Viva</li> </ul>

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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"> <li>• Viva</li> </ul>
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<p>Explain the pathogenesis of diseases which give rise to the manifestations of homeostasis, the nature of their disturbance and the morphological and clinical manifestations associated with it</p>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative assessment comprising MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
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<p>Understand the mechanisms and pathogenesis of tissue response to injury, the Pathophysiology of disease processes and the clinical manifestations</p>	<p><i>Ksaudhya</i></p> <p><b>PROF. AND HEAD</b>  DEPTT. OF MICROBIOLOGY  MIMER MEDICAL COLLEGE  ALFGAON DARHANG</p>
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<p>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.</p>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative assessment comprising MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva</li> <li>• Practical examination</li> <li>• OSPE</li> </ul>
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<p>Develop an understanding of neoplastic change in the body in order to appreciate the need for early diagnosis and further management of neoplasia</p>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative assessment comprising MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
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<p>Appreciate the significance of common neoplastic disorders, and develop the approach in their diagnosis and management</p>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative assessment comprising MCQ, BAQ, SAQ &amp; LAQ</li> <li>• OSPE</li> <li>• Hemogram interpretation</li> <li>• Clinical case viva</li> </ul>
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<p>Understand the pathogenesis of common infectious diseases and their clinical manifestations</p>	<ul style="list-style-type: none"> <li>• Practical examination</li> </ul>
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**ASSESSMENT METHODS OF LEARNING OUTCOME- II MBBS  
(PATHOLOGY)**

Learning Outcome	Assessment
<b>Knowledge</b>	
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"> <li>• Formative &amp; Summative assessment, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
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"> <li>• Formative &amp; Summative assessment, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva</li> </ul>
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"> <li>• Formative &amp; Summative assessment comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva</li> <li>• Practical examination</li> <li>• OSPE</li> </ul>
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"> <li>• Formative &amp; Summative assessment, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
Understand mechanisms of common haematological disorders and develop a logical approach in their diagnosis and management.	<ul style="list-style-type: none"> <li>• Formative &amp; Summative assessment, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• OSPE</li> <li>• Hemogram interpretation</li> <li>• Clinical tray viva</li> </ul>
<b>Skills</b>	
Demonstrate & perform various haematological & clinical pathological diagnostic laboratory tests	<ul style="list-style-type: none"> <li>• Practical examination</li> </ul>

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Interpret diagnostic laboratory tests and correlate with clinical and morphological features of diseases	<ul style="list-style-type: none"> <li>• Pre and post MCQ test</li> <li>• OSPE</li> </ul>
Perform simple bedside tests on blood, urine and other biological fluid samples.	<ul style="list-style-type: none"> <li>• Practical examination and viva</li> </ul>
Recognize morbid anatomical and histopathological changes for the diagnosis of common disorder.	<ul style="list-style-type: none"> <li>• Gross specimen viva</li> <li>• Histopathology slide diagnosis and viva</li> </ul>
Understand biochemical/physiological disturbances that occur as a result of disease in collaboration with pre-clinical departments.	<ul style="list-style-type: none"> <li>• Formative &amp; Summative assessment, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva</li> </ul>

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### Phase III Minor


#### ASSESSMENT METHODS OF LEARNING OUTCOME III MBBS (COMMUNITY MEDICINE)

Learning Outcome	Assessment
<b>Knowledge</b>	
Define health; describe the concept of holistic health including concept of spiritual health and the relativeness & determinants of health	Written/ Viva voce
Describe poverty and Social security measures and its relationship to health and disease	Written/ Viva voce
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
Describe the common sources of various nutrients and special nutritional requirements according to age, sex activity, physiological conditions	Written/ Viva voce
Enumerate, describe and discuss the modes of transmission and measures for prevention and control of communicable and non-communicable diseases	Written/ Viva voce
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
Describe Universal Immunization Program; Integrated Management of Neonatal and Childhood Illness ( MNCI) and other existing	Written/ Viva voce



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Programs	
Enumerate and describe specific occupational health hazards, their risk factors and preventivemeasures	Written/ Viva voce
<b>Skill</b>	
Demonstrate Infection controlpractices and use ofpersonal protective Equipment ( PPE)	Skill assessment
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
Visit a Child Developmentary unitand observe its functioning	Log book Entry
Describe and discuss the principlesand demonstrate the methods of collection, classification, analysis, interpretation and presentation of statistical data	Written/ Viva voce/ Skill assessment

  
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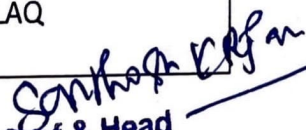
**ASSESSMENT METHODS OF LEARNING OUTCOME- III/I MBBS  
(Ophthalmology)**

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

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## ASSESSMENT METHODS OF LEARNING OUTCOME- III MBBS (E.N.T)

Learning Outcome	Assessment
<b>Knowledge</b>	
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"> <li>• Formative &amp; Summative examination comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva voce</li> <li>• DOAP session,</li> </ul>
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"> <li>• Formative &amp; Summative examination comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva voce</li> </ul>
3. Describe the clinical features, investigations, and principles of management of Meniere's Disease	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva voce</li> </ul>
4. Describe the clinical features, investigations, and principles of management of trauma to the face & neck	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva voce</li> </ul>
5. Observe and describe the indications for and steps involved in a tonsillectomy /adenoidectomy	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva voce</li> </ul>
<b>Skills</b>	
1. Enumerate the indications and interpret the results of an audiogram	<ul style="list-style-type: none"> <li>• Practical examination</li> <li>• Skill assessment</li> </ul>
2. Demonstrate the correct technique for syringing wax from the ear in a simulated environment	<ul style="list-style-type: none"> <li>• Practical examination</li> <li>• Skill assessment</li> </ul>
3. Observe and describe the indications for and steps involved in the performance of diagnostic nasal Endoscopy	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva voce</li> </ul>

  
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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"><li>• Formative &amp; Summative examination comprising of MCQ, BAQ, SAQ &amp; LAQ</li><li>• Viva voce</li></ul>
5. Demonstrate the correct technique of examination of the nose & paranasal sinuses including the use of nasal speculum	<ul style="list-style-type: none"><li>• Skill assessment/ OSCE</li></ul>

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## Phase III Major

### ASSESSMENT METHODS OF LEARNING OUTCOME- III / I MBBS (Gen. Medicine)

Learning Outcome	Assessment
<b>Knowledge</b>	
1. Explain pathophysiology of acute coronary syndrome and the management of acute coronary syndrome.	<ul style="list-style-type: none"> <li>• Formative &amp; Summative assessment, comprising of MCQ, SAQ &amp; LAQ OSCE</li> </ul>
2. Explain pathophysiology of the movement disorders and the management of Parkinson's disease.	<ul style="list-style-type: none"> <li>• Formative &amp; Summative assessment, comprising of MCQ, SAQ &amp; LAQ OSCE</li> <li>• Viva</li> </ul>
Approach to case of chronic liver disease with ascites. Diagnostic and therapeutic interventions..	<ul style="list-style-type: none"> <li>• Formative &amp; Summative assessment comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Clinics</li> <li>• Viva</li> <li>• OSCE</li> </ul>
Diabetes Mellitus management and complications. Use of various insulin combinations	<ul style="list-style-type: none"> <li>• Formative &amp; Summative assessment, comprising of MCQ, SAQ &amp; LAQ. OSCE</li> </ul>
5. ECG interpretation	<ul style="list-style-type: none"> <li>• Formative &amp; Summative assessment, comprising of MCQ, SAQ &amp; LAQ</li> <li>• Viva</li> </ul>
<b>Skills</b>	
1. Pleural tapping	<ul style="list-style-type: none"> <li>• Clinics</li> </ul>
2. Lumbar puncture	<ul style="list-style-type: none"> <li>• Clinics in casualty and ICU</li> </ul>
3. Perform simple	<ul style="list-style-type: none"> <li>• Clinics</li> </ul>



<p>bedside tests on blood, urine and other biological fluid samples.</p>	
<p>4. Ascitic tapping.</p>	<ul style="list-style-type: none"> <li>• Clinics</li> </ul>


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**ASSESSMENT METHODS OF LEARNING OUTCOME-UG(MBBS - PAEDIATRICS)**

Learning outcome	Assessment
<b>Cognitive domain; Knowledge</b>	
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"> <li>• Formative &amp; Summative examination, comprising of MCQs, BAQs, SAQs &amp; LAQs.</li> <li>• Viva Voce.</li> </ul>
2. Discuss the etiology, clinical presentation and management of Acute Lymphoblastic Leukemia in children.	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of SAQs &amp; LAQs.</li> </ul>
3. Discuss the epidemiology, clinical features, types and complications of Tuberculosis in Children and Adolescents	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQs, SAQs &amp; LAQs.</li> <li>Viva Voce. OSCE</li> </ul>
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"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ.</li> <li>• Viva and OSCE</li> </ul>
5. Discuss the etio pathogenesis, classification, clinical presentation and management of Diarrheal diseases in children	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva</li> <li>• OSCE</li> </ul>

  
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SKILLS	
Examine Normal Neonate physical and Neuromuscular criteria, and demonstrate Neonatal Reflexes.	<ul style="list-style-type: none"> <li>• Bedside Practical examination.</li> <li>• OSCE</li> </ul>
Examine a Case of PEM, and assess signs of Kwashiorkor and Marasmus.	<ul style="list-style-type: none"> <li>• Bedside Practical examination</li> <li>• OSCE</li> </ul>
Describe various routes of administration of Vaccines and Perform IM Injection .	<ul style="list-style-type: none"> <li>• Practical examination and viva.</li> </ul>
Describe methods of Neonatal Resuscitation, and Perform Ambu Bag & mask Ventilation on Mannequin.	<ul style="list-style-type: none"> <li>• Viva and Practical Examination.</li> </ul>
Discuss Causes of Hepatosplenomegaly, and demonstrate methods of Palpation of Liver, and Spleen.	<ul style="list-style-type: none"> <li>• SAQs &amp; LAQs.</li> <li>• Viva</li> </ul>

  
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**ASSESSMENT METHODS OF LEARNING OUTCOME- II MBBS  
(SURGERY)**

Learning Outcome	Assessment
<b>Knowledge</b>	
<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 presents as common surgical problems in outpatients.</p>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative assessment, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
<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"> <li>• Formative &amp; Summative assessment, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva</li> </ul>
<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 cases scenarios.</p>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative assessment comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva</li> <li>• Practical examination</li> <li>• OSPE</li> <li>• OSCE</li> </ul>
<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"> <li>• Formative &amp; Summative assessment, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>

5. Understand mechanisms of common surgical disorders and develop a logical approach in their diagnosis and management.

- Formative & Summative assessment, comprising of MCQ, BAQ, SAQ & LAQ
- OSPE
- OSCE
- Clinical viva

*Sachin*

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Skills	
1. Demonstrate & perform various clinical assessments of organ systems in common surgical patients.	<ul style="list-style-type: none"> <li>• Practical examination</li> <li>• OSCE</li> <li>• OSPE</li> </ul>
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"> <li>• Pre and post MCQ test</li> <li>• OSPE</li> </ul>
3. Perform simple bedside tests on in ward patients to elicit specific signs of common surgical diseases.	<ul style="list-style-type: none"> <li>• Practical examination and viva</li> </ul>
4. Recognize morbid anatomical and radiological changes for the diagnosis of common surgical disorders	<ul style="list-style-type: none"> <li>• Gross specimen viva</li> <li>• Radiological diagnosis and viva</li> </ul>
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"> <li>• Formative &amp; Summative assessment, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Viva</li> </ul>

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**ASSESSMENT METHODS OF LEARNING OUTCOME (MBBS  
OBSTETRICS & GYNAECOLOGY)**

LEARNING OUTCOME		ASSESSMENT
KNOWLEDGE	SLO	
Anatomy of the female reproductive tract,	Describe the anatomy of female reproductive tract  Describe relationship of pelvic organs to one another  Describe the blood supply, nerve supply, and lymphatic drainage of female genital organs  Describe the development of female reproductive tract  Applied anatomy	LAQ, SAQ, MCQs
Physiology of menstruation	Describe physiology of menstruation and its neuroendocrine control through HPO axis.	LAQ, SAQ, MCQs
Physiology of gametogenesis, Ovulation, conception, implantation, & reproductive endocrinology	Describe spermatogenesis, oogenesis, fertilization, implantation and early decidual changes	LAQ, SAQ, MCQs
Early development of embryo and fetus, development of placenta, amniotic fluid, cord		LAQ, SAQ, MCQs



<b>Embryology and developmental defects of female genital tract</b>	<b>List investigation for diagnosis of Mullerian duct anomalies</b>  <b>Clinical significance of Mullerian duct anomalies</b>	<b>LAQ, SAQ, MCQs</b>
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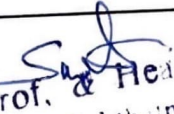
<b>Technical Domain</b>  20 Credits 20 Credits 20 Credits 20 Credits	<ul style="list-style-type: none"> <li>• Practical and viva</li> <li>• Day to day assessment</li> </ul>
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Diagnosis of pregnancy	Describe clinical features of pregnancy correctly  Discuss d/d of suprapubic lump in women  Describe chemical tests of pregnancy
<b>SKILL</b>	
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

<b>Psychomotor Domain</b>	
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"> <li>• Practical and viva</li> <li>• Day to day assessment</li> </ul>

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

  
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**Department of Psychiatry**  
**MIMER Medical College, Talegaon Dabhade**  
**Student Outcomes - UG**

Learning Outcome	Assessment Method
<b>General Psychiatric Skills:</b>	
1. Obtain, document, and resent an age and gender-appropriate psychiatric history.	Skill Station/Practical exam/OSCE/OSPE
2. Do a complete mental status examination.	Skill Station/Practical exam/OSCE/OSPE
3. Assess suicidal and homicidal ideation, across the lifespan.	Skill Station/Practical exam/OSCE/OSPE
4. Apply differential diagnosis skills using specific history and physical exam findings	Skill Station/Practical exam/OSCE/OSPE
5. Select appropriate diagnostic and laboratory tests and interpret results.	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.	Skill Station/Practical exam/OSCE/OSPE
7. Select appropriate treatment (medication and/or therapy) and, if necessary, refer to specialty care.	Written/Viva Voce
8. Develop skills for enhancing treatment adherence	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.	Written/Viva Voce
10. Understand the confidentiality requirements of psychiatric diagnoses.	Written/Viva Voce
11. Understand legal requirements of civil commitment and competency evaluations.	Written/Viva Voce

## Learning Outcomes:

1. 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.   | Written/Viva Voce                      |
| 2. Identify various presentations and the natural history, onset, and prognostic features of depression across the life span.   | Written/Viva Voce                      |
| 3. Select and monitor appropriate psychiatric medications used in treating depression.  | Written/Viva Voce                      |
| 4. Assess an individual patient's potential risk for subsequent depression.   | 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.                                    | 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. | Skill Station/Practical exam/OSCE/OSPE |
| 7. Assess a patient's risk for suicide and be able to appropriately respond to high risk patients.  | Skill Station/Practical exam/OSCE/OSPE |
| 8. Assess the impact of depression upon the patient's level of function.  | Written/Viva Voce                      |
| 9. Recognize that depression may be a potentially life-threatening illness.   | Written/Viva Voce                      |
| 10. Recognize that uncomplicated depression can be diagnosed and treated by non-psychiatrists.  | Written/Viva Voce                      |
| 11. Recognize that treatment of depression is interdisciplinary.  | Written/Viva Voce                      |

### Anxiety Disorders:

- |  |                   |
|--|-------------------|
| 1. Differentiate between normal anxiety and specific anxiety disorders.  | 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 | Written/Viva Voce |

(OCD) and post-traumatic stress disorder (PTSD).	
3. Recognize the ways in which anxiety disorders may present in primary care and other medical settings.	Written/Viva Voce
4. Recognize the general medical conditions and substances commonly associated with anxiety symptoms.	Written/Viva Voce
5. Describe anxiety disorder symptom presentations as they vary across the life span (e.g. child and elderly).	Written/Viva Voce
6. Describe major characteristics of anxiety disorders unique to childhood, including separation anxiety disorder and overanxious disorder of childhood.	Written/Viva Voce
7. Recognize the precipitating factors and functional impact (e.g. work, school, family relationships) of anxiety disorders.	Written/Viva Voce
8. Identify major classes of psychiatric medications used in treating anxiety disorders and discuss potential side effects of each.	Written/Viva Voce
9. Select and monitor appropriate psychiatric medications used in treating anxiety disorders.	Written/Viva Voce
10. Identify the primary psychosocial therapies used to treat anxiety disorders.	Written/Viva Voce
<b>Substance Abuse</b>	
1. Understand the major models of substance dependence and implications for treatment.	Written/Viva Voce
2. Differentiate between substance abuse and substance dependence (addiction).	Written/Viva Voce
4. Have working knowledge and an approach to the differential diagnosis of substance dependent patients with co-morbid psychiatric disorders.	Written/Viva Voce
5. Know the signs, symptoms, clinical course, and treatment of withdrawal (outpatient detoxification) for the various drugs of abuse.	Written/Viva Voce
6. Understand the difference between addiction to prescription drugs and taking medications due to legitimate medical need.	Written/Viva Voce
7. Differentiate between abstinence and sobriety.	Written/Viva Voce
8. Have a working knowledge of self-help groups such as Alcoholics Anonymous and Alanson and understand basic concepts in recovery.	Written/Viva Voce

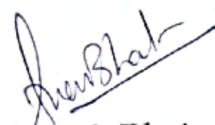
9. Know the indications, contraindications, and efficacies of pharmacotherapy to treat substance abuse.	Written/Viva Voce
10. Become knowledgeable of community resources for treatment of addiction.	Skill Station/Practical exam/OSCE/OSPE, Written/Viva Voce
<b>Psychosis</b>	
1. State the definition of psychosis and describe how to recognize and diagnose psychotic conditions.	Skill Station/Practical exam/OSCE/OSPE
2. Perform an initial diagnostic evaluation of a patient with psychotic symptoms, including history and mental status examination.	Skill Station/Practical exam/OSCE/OSPE
3. Give a medical and psychiatric differential diagnosis for psychosis.	Written/Viva Voce
4. Summarize the epidemiology, diagnostic criteria, clinical features, course and complications of schizophrenia.	Written/Viva Voce
5. Recognize current theories of the ethology and pathophysiology of schizophrenia.	Written/Viva Voce
6. Recognize the common substances associated with psychosis during intoxication or withdrawal.	Written/Viva Voce
7. Recognize the other major primary psychotic disorders including mood disorders, schizoaffective disorder, brief psychotic disorder, and delusional disorder.	Written/Viva Voce
8. Describe common and serious side effects of frequently used antipsychotic medications.	Written/Viva Voce
9. Recognize the pharmacologic and psychosocial treatments of schizophrenia and other psychotic disorders.	Written/Viva Voce
10. Describe the initial and maintenance treatment of a manic episode.	Written/Viva Voce
<b>Personality Disorders:</b>	
1. State the definitions of personality trait and personality disorder.	Written/Viva Voce
1. State the definitions of personality trait and personality disorder.	Written/Viva Voce
3. Describe the basic characteristics of each personality disorder.	Written/Viva Voce
4. Describe the clinical features, epidemiology, diagnostic criteria,	Written/Viva Voce

comorbidities, and treatments of borderline personality disorder.	
5. Demonstrate a working knowledge of Dialectical Behaviour Therapy (DBT).	Skill Station/Practical exam/OSCE/OSPE
6. Recognize the treatments for other personality disorders.	Written/Viva Voce
7. Describe the implications for the doctor-patient relationship of each personality disorder.	Written/Viva Voce
8. Conduct a suicide assessment that differentiates between acute and chronic suicidal ideation.	Skill Station/Practical exam/OSCE/OSPE
<b>Child/Adolescent Component:</b>	
1. Describe major characteristics of disorders first presenting in childhood or adolescence including ADHD, Pervasive Developmental Disorders, Learning Disorders, and Mental Retardation.	Written/Viva Voce
2. Describe symptoms of mood, anxiety, and psychotic disorders presenting in children.	Written/Viva Voce
3. Recognize the ways in which a specific psychiatric disorder may present differently in childhood/adolescence.	Written/Viva Voce
4. Conduct and interpret a child/adolescent mental status exam with a child and conduct a parent interview.	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.	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.	Written/Viva Voce
<b>Consultation Liaison / Emergency Services Component:</b>	
1. Recognize medical symptoms of psychiatric disorders.	Written/Viva Voce
2. Recognize psychiatric symptoms of medical disorders.	Written/Viva Voce
3. Recognize, assess and manage the delirious patient.	Written/Viva Voce

4. Conduct and interpret a Mini-Mental Status Exam or MOCA to assess cognitive function.	Skill Station/Practical exam/OSCE/OSPE
5. Review commitment laws for involuntary treatment, and evaluate a patient's capacity to give informed consent.	Skill Station/Practical exam/OSCE/OSPE
6. Recognize psychiatric symptoms that are side effects of medications.	Written/Viva Voce
7. Recognize the following somatoform disorders: somatization disorder, conversion disorder, hypochondriasis, pain disorder, body dimorphic disorder.	Written/Viva Voce
8. Discuss the management of somatoform disorders.	Written/Viva Voce
<b>Geriatric Psychiatry Component:</b>	
1. Demonstrate proficiency in taking a past/family psychiatric history from older adults.	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.	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.	Written/Viva Voce
4. Perform standardized cognitive screening tools (e.g. MMSE and MOCA).	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.	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.	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.	Skill Station/Practical exam/OSCE/OSPE



8. Recognize the complexity of the neuropsychiatric patient and the interactions between medical, neurological, and psychiatric illnesses.	Written/Viva Voce
9. Demonstrate understanding of how physiological changes with aging and medical comorbidities affect psychotropic prescribing.	Skill Station/Practical exam/OSCE/OSPE
10. Recognize, assess, and treat delirium.	Written/Viva Voce
11. Categorize the differential diagnosis of late onset psychosis.	Written/Viva Voce
<b>How students will be evaluated to ensure that each objective is met:</b>	
1. Students will be given opportunities to participate in direct patient care under attending and resident. Supervision. This will include individual interviews with patients, written initial evaluations and progress notes, review of diagnostic test results, contact with families and outside care providers, presentation of cases to attending and other staff, and participation in patient-related meetings and discussions.	

  
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**Department of Anaesthesiology**

**Learning Outcomes For Under Graduate Students**

Sr. No	Learning Outcome	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	Written/ Viva voce
2	Perform the Basic Life Support effectively on adults, children and neonate manikin. Advanced Life Support in adults and children manikin	OSCE/ Viva voce
3	Describe the principles of preoperative evaluation , elicit appropriate history demonstrate and document clinical examination in a patient undergoing General Surgery	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.	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.	Written/ Viva voce
6	Describe the principles of monitoring and resuscitation in the recovery room Describe the common complications encountered by patients in the recovery room	Written/ Viva voce
7	Enumerate and describe the functions of an Intensive Care Unit Observe and describe the principles of monitoring in an ICU	Written/ Viva voce
8	Describe the anatomical correlates , physiologic principles , pharmacology and use of drugs in the management of pain	Written/ Viva voce
9	Describe the principles of fluid therapy in the perioperative period. Establish intravenous access, central venous access in a simulated environment. Enumerate blood products and describe the use of blood products	OSCE/ Viva voce
10	Describe the role of communication in patient safety.	Written/ Viva voce

  
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**ASSESSMENT METHODS OF LEARNING OUTCOME- Post Graduation –MS  
(Ophthalmology)**

Learning Outcome	Assessment
<b>Knowledge</b>	
1. Understanding the correct method of performing indirect ophthalmoscopy	<ul style="list-style-type: none"> <li>• OSCE</li> <li>• OSPE</li> </ul>
2. Describe the importance and method of eye irrigation in cases of chemical injury	<ul style="list-style-type: none"> <li>• OSPE</li> <li>• OSCE</li> </ul>
3. Understanding of various layers of retina on OCT and interpretation of various retinal diseases	<ul style="list-style-type: none"> <li>• OSPE</li> </ul>
4. Interpretation of visual field defects in Glaucoma in perimetry and its clinical correlation	<ul style="list-style-type: none"> <li>• OSCE</li> <li>• OSPE</li> </ul>
5. Assist/observe therapeutic procedures such as subconjunctival injection in post cataract surgery patient	<ul style="list-style-type: none"> <li>• OSPE</li> </ul>
<b>Skills</b>	
1. Performing corneo scleral tunnel in goats eye	<ul style="list-style-type: none"> <li>• Practical examination</li> </ul>
2. Fluorescein staining in cases of corneal ulcer	<ul style="list-style-type: none"> <li>• Practical examination and viva</li> </ul>
3. Demonstrate correct procedure in step wise fashion to remove corneal foreign body	<ul style="list-style-type: none"> <li>• Practical Examination</li> </ul>

4. Procedure of epilation in cases of trichiasis	• Practical Examination
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<p>5. Correct method of performing B-scan</p>	<ul style="list-style-type: none"> <li>• Practical Examination</li> <li>• Formative &amp; Summative examination, comprising of SAQ &amp; LAQ</li> </ul>
<p>2. Describe the overview of different types of diets.</p>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of SAQ &amp; LAQ</li> <li>• Viva</li> </ul>
<p>3. Nutrition - Clinical significance</p>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination comprising of SAQ &amp; LAQ</li> <li>• Viva</li> <li>• Practical examination</li> </ul>
<p>4. Understanding of molecular biology</p>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of SAQ &amp; LAQ</li> </ul>
<p>5. Advance biochemistry and their role in diagnosis and management</p>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of SAQ &amp; LAQ</li> </ul>
<p>1. Demonstrate &amp; perform various biochemical diagnostic laboratory tests</p>	<ul style="list-style-type: none"> <li>• Practical examination</li> <li>• Log book</li> </ul>
<p>2. Interpret molecular diagnostic technique</p>	<ul style="list-style-type: none"> <li>• Viva</li> <li>• Microteaching</li> </ul>

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### ASSESSMENT METHODS OF LEARNING OUTCOME- MD (BIOCHEMISTRY)

Learning Outcome	Assessment
<b>Knowledge</b>	
1. Explain the Biochemical basis of life	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of SAQ &amp; LAQ</li> </ul>
2. Describe the overview of different metabolism	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of SAQ &amp; LAQ</li> <li>• Viva</li> </ul>
3. Nutrition – Clinical significance	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination comprising of SAQ &amp; LAQ</li> <li>• Viva</li> <li>• Practical examination</li> <li>• Oral presentation in conference</li> </ul>
4. Understanding of molecular biology	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of SAQ &amp; LAQ</li> </ul>
5. Advance biochemistry and their role in diagnosis and management	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of SAQ &amp; LAQ</li> </ul>
<b>Skills</b>	
1. Demonstrate & perform various biochemical diagnostic laboratory tests	<ul style="list-style-type: none"> <li>• Practical examination</li> <li>• Log book</li> </ul>
2. Interpret molecular diagnostic technique	<ul style="list-style-type: none"> <li>• Viva</li> <li>• Microteaching</li> </ul>

3. Perform special tests on blood, urine and other biological fluid samples.	<ul style="list-style-type: none"> <li>• Practical examination and viva</li> </ul>
4. Collection & storage of different biological fluids. Exposure to biomedical waste & quality control in labs	<ul style="list-style-type: none"> <li>• Viva</li> <li>• Log book</li> </ul>
5. Exposure to various instruments CCL. Exposure to CCL procedures & hand on training with various equipments.	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of             <ul style="list-style-type: none"> <li>• SAQ &amp; LAQ</li> </ul> </li> <li>• Viva</li> <li>• Log book</li> </ul>
6. Analyze, discuss research work	<ul style="list-style-type: none"> <li>• Thesis</li> <li>• Oral presentation in conference</li> <li>• Log book</li> </ul>

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## ASSESSMENT METHODS OF LEARNING OUTCOME- PG( MD Medicine)

Learning outcome	Assessment
Cognitive domain	
1. Detailed history taking with relevant examination and management plan	<ul style="list-style-type: none"> <li>• Viva voce</li> </ul>
2. Clinic pathologic and radiological correlation and treatment plan.	<ul style="list-style-type: none"> <li>• Clinical chart interpretation</li> <li>• Viva</li> <li>• Log book</li> </ul>
3. Analysing complicated cases and cases having multiple organ involvement . Management including medical as well as surgical treatment	<ul style="list-style-type: none"> <li>• Clinical case examination</li> <li>• Viva voce</li> <li>• Log book</li> </ul>
4. Cases requiring the super specialty in depth knowledge and complicated cases .	<ul style="list-style-type: none"> <li>• Clinical case examination</li> <li>• Viva voce</li> <li>• Log book</li> </ul>
5. Should be able to teach Medicine to undergraduates, nurses and paramedical staff	<ul style="list-style-type: none"> <li>• Microteaching</li> </ul>
6. Plan, execute, analyse and present research work.	<ul style="list-style-type: none"> <li>• Thesis</li> <li>• Oral paper presentation in conferences</li> <li>• Log book</li> </ul>
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"> <li>• Formative assessment by observation in day to day working</li> </ul>



<b>Affective Domain</b>	
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"> <li>• Formative assessment by observation in day to day working</li> </ul>
<b>Psychomotor Domain</b>	
1. Able to do basic ward procedures like pleural and ascetic tapping liver and kidney biopsy.	<ul style="list-style-type: none"> <li>• Skill assessment in ward procedures</li> </ul>
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"> <li>• Skill assessment in ICU procedures</li> <li>• Viva voce</li> </ul>

## ASSESSMENT METHODS OF LEARNING OUTCOME- PG (MD PATHOLOGY)

Learning outcome Cognitive domain	Assessment
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"> <li>• Interpretation of reports</li> <li>• Slide seminars-Hematology, histopathology, cytology</li> </ul>
2. Interpret and correlate clinical and laboratory data so that clinical manifestations of diseases can be explained.	<ul style="list-style-type: none"> <li>• Clinical chart interpretation</li> <li>• Viva</li> <li>• Log book</li> </ul>
3. Advise on the appropriate specimens and tests necessary to arrive at a diagnosis in a problematic case.	<ul style="list-style-type: none"> <li>• Clinical case examination</li> </ul>
4. Correlate clinical and laboratory findings with pathology findings at autopsy, identify misrelations and the causes of death due to diseases (apart from purely metabolic causes)	<ul style="list-style-type: none"> <li>• Practical examination of autopsy – case based</li> <li>• Log book</li> </ul>
5. Should be able to teach Pathology to undergraduates, postgraduates, nurses and paramedical staff including laboratory personnel.	<ul style="list-style-type: none"> <li>• Microteaching</li> </ul>
6. Plan, execute, analyse and present research work.	<ul style="list-style-type: none"> <li>• Thesis</li> <li>• Oral paper presentation in conferences</li> <li>• Log book</li> </ul>

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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"> <li>• Formative assessment by observation in day to day working</li> </ul>
<p>Affective Domain</p>	
<p>1. Develop communication skills toward 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"> <li>• Formative assessment by observation in day to day Working</li> </ul>
<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"> <li>• Practical and viva on histotechniques</li> <li>• Day to day assessment of grossing of Specimens</li> </ul>
<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"> <li>• Formative assessment while doing procedure.</li> <li>• Viva</li> </ul>

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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	
3. Perform an autopsy, dissect various organ complexes and display the gross findings	<ul style="list-style-type: none"><li>• Practical examination</li><li>• Viva</li></ul>
4. Should be familiar with the function, handling and routine care of equipments in the laboratory.	<ul style="list-style-type: none"><li>• Formative assessment by observation in day to day working</li></ul>

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## ASSESSMENT METHODS OF LEARNING OUTCOME- PG (MD PARMACOLOGY)

Learning outcome	Assessment
<b>Cognitive domain</b>	
<ul style="list-style-type: none"> <li>• Explain pharmacodynamics and pharmacokinetics of drugs</li> </ul>	<ul style="list-style-type: none"> <li>• Seminars</li> </ul>
<ul style="list-style-type: none"> <li>• Acquire knowledge on pharmacovigilance</li> </ul>	<ul style="list-style-type: none"> <li>• ADR reporting</li> <li>• Log book</li> </ul>
<ul style="list-style-type: none"> <li>• Apply and integrate knowledge of pathophysiology of diseases and its modulation by drugs</li> </ul>	<ul style="list-style-type: none"> <li>• Seminars</li> </ul>
<ul style="list-style-type: none"> <li>• Acquire knowledge on essential medicines</li> </ul>	<ul style="list-style-type: none"> <li>• Preparation of essential drug list for various diseases</li> </ul>
<ul style="list-style-type: none"> <li>• Acquire knowledge on rational use of drugs and prescription auditing.</li> </ul>	<ul style="list-style-type: none"> <li>• Microteaching</li> </ul>
<ul style="list-style-type: none"> <li>• Plan, execute, analyse and present research work.</li> </ul>	<ul style="list-style-type: none"> <li>• Thesis</li> <li>• Oral paper presentation in conferences</li> <li>• Log book</li> </ul>
<ul style="list-style-type: none"> <li>• Acquire knowledge on the legal and ethical issues involved in drug development and research.</li> </ul>	<ul style="list-style-type: none"> <li>• Seminar</li> </ul>
<b>Affective Domain</b>	
<ol style="list-style-type: none"> <li>1. Effectively explain to patients, the effects and side effects of drugs, including the need for medication adherence</li> </ol>	<ul style="list-style-type: none"> <li>• Formative assessment</li> </ul>
<b>Psychomotor Domain</b>	
<ol style="list-style-type: none"> <li>1. Able to predict efficacy and adverse effects associated with use of drugs, along with causality assessment</li> </ol>	<ul style="list-style-type: none"> <li>• Practical and viva</li> </ul>
<ol style="list-style-type: none"> <li>2. Perform major in vivo and invitro animal experiments</li> </ol>	<ul style="list-style-type: none"> <li>• Formative assessment while doing procedure.</li> <li>• Viva</li> </ul>

<p>3. Demonstrate presentation skills at academic meetings, publications and writing research projects for funding agencies.</p>	<ul style="list-style-type: none"> <li>• Research workpresentation</li> </ul>
<p>4. Demonstrate skills for prescription writing</p>	<ul style="list-style-type: none"> <li>• Formative assessment</li> </ul>

epidemiology, pathogenesis, etiology, investigations & treatment of all infectious diseases i.e. bacterial, viral & parasitic

- MCQ, SAQ, LAQ



- Formative examination conducted at the end of 1 yr

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- Case presentations

epidemiology, etiology, clinical features, diagnosis & management of various skin disorders like eczema, psoriasis, bullous disorders

- Formative examination conducted at the end of 1 yr
- Summative examination
- MCQ, SAQ, LAQ
- Long & short case presentations during formative & summative examination

epidemiology, etiology, clinical features, diagnosis & management of various respiratory tract infections like pneumonia, tuberculosis, pertussis, influenza, etc.

- Formative examination conducted at the end of 2 years
- Summative examination
- MCQ, SAQ, LAQ
- Case presentations

## ASSESSMENT METHODS OF LEARNING OUTCOME- PG (DERMATOLOGY)

Learning Outcome	Assessment
<b>Knowledge</b> 1. Basic sciences- Explain structure functions & development of human skin including its microscopic & ultra-microscopic structures.	<ul style="list-style-type: none"> <li>• Formative examination conducted at the end of 1 yr.</li> <li>• Summative examination</li> <li>• MCQ, SAQ, LAQ</li> </ul>
2. Describe epidemiology, pathogenesis, clinical features, investigations & management of all infectious diseases i.e. bacterial, fungal, viral & parasitic infestations.	<ul style="list-style-type: none"> <li>• Formative examination conducted at the end of 1 yr.</li> <li>• Summative examination</li> <li>• MCQ, SAQ, LAQ</li> <li>• Viva</li> <li>• Spotters</li> <li>• Case presentations</li> </ul>
3. Describe epidemiology, pathogenesis, clinical features, investigations & management of inflammatory skin disorders like psoriasis, vesicobullous disorders.	<ul style="list-style-type: none"> <li>• Formative examination conducted at the end of 1 yr.</li> <li>• Summative examination</li> <li>• MCQ, SAQ, LAQ</li> <li>• Long &amp; short case presentations during formative &amp; summative exams</li> </ul>
4. Describe epidemiology, pathogenesis, clinical features, investigations & management of contact allergic & irritant dermatitis, photo dermatitis, occupational dermatitis & dermatitis due to other physical factors.	<ul style="list-style-type: none"> <li>• Formative examination conducted at the end of 2 years</li> <li>• Summative examination</li> <li>• MCQ, SAQ, LAQ</li> <li>• Spotters</li> </ul>

<p>5. Describe epidemiology, pathogenesis, clinical features, investigations &amp; management of precancerous &amp; cancerous skin conditions like Squamous cell carcinoma, Basal cell carcinoma.</p>	<ul style="list-style-type: none"> <li>• Formative examination conducted at the end of 2 years</li> <li>• Summative examination</li> <li>• MCQ, SAQ, LAQ</li> <li>• Spotters</li> </ul>
<p>6. Describe various disorders associated with systemic diseases – renal cardiovascular, pulmonary system &amp; rheumatology, vasculitis, collagen vascular disorders.</p>	<ul style="list-style-type: none"> <li>• Formative examination conducted at the end of 2 years</li> <li>• Summative examination</li> <li>• MCQ, SAQ, LAQ</li> <li>• Spotters</li> <li>• Case presentation (Long case &amp; short case)</li> </ul>
<p>7. Describe epidemiology, pathogenesis, clinical features, investigations &amp; management of Leprosy &amp; Sexually transmitted diseases.</p>	<ul style="list-style-type: none"> <li>• Formative examination conducted at the end of 1 yr.</li> <li>• Summative examination</li> <li>• MCQ, SAQ, LAQ</li> <li>• Viva</li> <li>• Spotters</li> <li>• Case presentations</li> </ul>
<p>8. Describe various topical &amp; systemic drug therapy including recent advances.</p>	<ul style="list-style-type: none"> <li>• Formative examination conducted at the end of 1 yr.</li> <li>• Summative examination</li> <li>• MCQ, SAQ, LAQ</li> <li>• Table viva</li> </ul>
<p><b>Skills</b></p>	



<p>1. To be able to perform &amp; order various bed side tests like KOH staining, Giemsa staining &amp; acid-faststaining, Woods lamp, culture, routine lab investigations &amp; skin biopsy.</p>	<ul style="list-style-type: none"> <li>• Practical examination</li> </ul>
<p>2. To be able to order &amp; interpret laboratory test to reach the diagnosis.</p>	<ul style="list-style-type: none"> <li>• OSPE</li> <li>• Pre &amp; post MCQtest</li> </ul>
<p>3. To be able to take incisions, sutures, do peels, acne surgery, vitiligo surgery, radiofrequency, cryotherapy &amp; electrocautery .</p>	<ul style="list-style-type: none"> <li>• Practical examination</li> <li>• Table viva during summative exam</li> <li>• OSPE during formative exam</li> </ul>

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## ASSESSMENT METHODS OF LEARNING OUTCOME- PG (MS- OBSTETRICS&amp;GYNAECOLOGY)

Learning outcome	Assessment
<b>Cognitive domain</b>	
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"> <li>• Ward work</li> <li>• Log book</li> </ul>
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"> <li>• Clinical case interpretation</li> <li>• Viva</li> <li>• Log book</li> </ul>
3. Explain the normal physiologic changes of pregnancy including interpretation of common diagnostic studies.	<ul style="list-style-type: none"> <li>• Clinical case examination</li> </ul>
4. Describe common problems in obstetrics	<ul style="list-style-type: none"> <li>• Practical examination</li> <li>• Log book</li> </ul>
5. Demonstrate knowledge of intrapartum care. 8. Demonstrate knowledge of postpartum care of the mother and newborn.	<ul style="list-style-type: none"> <li>• Management of Labour room</li> <li>• IPD Patient</li> </ul>
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"> <li>• Formative assessment by observation in day to day working</li> </ul>
7. Plan, execute, analyse and present research work.	<ul style="list-style-type: none"> <li>• Thesis</li> <li>• Oral paper presentation in conferences</li> <li>• Log book</li> </ul>
8. Demonstrate knowledge of perioperative care and familiarity with gynecological procedures.	<ul style="list-style-type: none"> <li>• Formative assessment by observation in day to day working</li> </ul>
9. Describe gynecological malignancies including risk factors, signs and symptoms and initial evaluation.	<ul style="list-style-type: none"> <li>• Formative assessment by observation in day to day working</li> </ul>



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

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**ASSESSMENT METHODS OF LEARNING OUTCOME- POST GRADUATE(MD MICROBIOLOGY)**

Learning outcome	Assessment
<b>Cognitive domain/ Knowledge</b>	
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"> <li>• DOAP</li> <li>• Interpretation of reports</li> <li>• Slide seminars</li> </ul>
2) Explain the principles of immunological phenomenon.	<ul style="list-style-type: none"> <li>• Formative and Summative assessment</li> </ul>
3) Practice Laboratory medicine for diagnosis of infectious diseases in hospital & community	<ul style="list-style-type: none"> <li>• Clinical case examination</li> </ul>
4) Interpret and correlate clinical and laboratory data so that clinical manifestations of diseases can be explained.	<ul style="list-style-type: none"> <li>• Clinical chart interpretation</li> <li>• Viva</li> <li>• Log book</li> </ul>
5) Advise on the appropriate specimens and tests necessary to arrive at a diagnosis in a problematic case.	<ul style="list-style-type: none"> <li>• Clinical case examination</li> </ul>
6) Prevention and control of communicable diseases in Community	<ul style="list-style-type: none"> <li>• Log book</li> <li>• Viva</li> </ul>
7) Principal of Prevention and control of health care associated infections and rational antibiotic policy	<ul style="list-style-type: none"> <li>• Formative &amp; summative assessment</li> <li>• Viva</li> </ul>
8) Recent advances in medical Microbiology	<ul style="list-style-type: none"> <li>• Formative &amp; summative assessment</li> </ul>
9) Should be able to teach Microbiology to undergraduates, postgraduates, nurses and paramedical staff including laboratory personnel.	<ul style="list-style-type: none"> <li>• Microteaching</li> </ul>

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10) Plan, execute, analyse and present research work.	<ul style="list-style-type: none"> <li>• Thesis</li> <li>• Oral paper presentation in conferences</li> <li>• Log book</li> </ul>
11) 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.	<ul style="list-style-type: none"> <li>• Formative assessment by observation in day to day working</li> </ul>
<b>Affective Domain</b>	
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"> <li>• Formative assessment by observation in day today working</li> </ul>
<b>Psychomotor Domain</b>	
1) Able to perform routine tests to arrive at the etiological diagnosis of infectious diseases causes by micro-organisms	<ul style="list-style-type: none"> <li>• Day to day assessment of practical and viva</li> <li>• Log book</li> </ul>
2) Operation of routine and sophisticated instruments in laboratory	<ul style="list-style-type: none"> <li>• Day to day formative assessment.</li> <li>• Practical and Viva</li> </ul>

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**Department of Community Medicine**

**ASSESSMENT METHODS OF LEARNING OUTCOME- POST GRADUATE**

**(MD Community Medicine)**

<b>Learning outcome</b>	<b>Assessment</b>
<b>Cognitive domain</b>	
1. Describe conceptual (and applied) understanding of public health community Medicineclinical and disease –oriented approach preventive approach &health promotion, disease control & promotion.	<ul style="list-style-type: none"> <li>• Lecture,</li> <li>• Practicals,</li> <li>• seminars</li> </ul>
2. Apply the principles of epidemiology, health research and Bio- statistics, application of qualitative researchmethods.	<ul style="list-style-type: none"> <li>• Interpretationofreports</li> <li>• Research projects</li> </ul>
3. Knowledge about communicable andnon-communicable diseases, their epidemiology.	<ul style="list-style-type: none"> <li>• Clinical case examination</li> </ul>
4. To describe the concept of environmental healthand its varioushealth issues.	<ul style="list-style-type: none"> <li>• Entomology practical</li> <li>• Log book</li> </ul>



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<p>5. Should be able to teach Community Medicine to undergraduates, postgraduates, nurses and paramedical staff including laboratory personnel.</p>	<ul style="list-style-type: none"> <li>• Thesis</li> <li>• Microteaching</li> <li>• Log book</li> <li>• by observation: in day to day working</li> </ul>
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<p>Domain</p> <p>to word reports and professional opinion as well as to interact with patients, families, peers and paramedical staff and for effective teaching.</p>	<p>Formative assessment by observation in day to day working</p>
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<p>Director Domain</p> <p>to perform routine work in a Public health laboratory.</p>	<p>Research project in urban and rural area</p>
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<p>52 6. Plan, execute, analyse and present researchwork.</p>	<ul style="list-style-type: none"> <li>• Thesis</li> <li>• Oral paper presentation conferences</li> <li>• Log book</li> </ul>
<p>7. Make and record observations systematically and maintain accurate records of tests and their results for reasonable periods of time.</p>	<ul style="list-style-type: none"> <li>• Formative assessment by observation in day to day working</li> </ul>
<p><b>Affective Domain</b></p>	
<p>1. Develop communication skills to write 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"> <li>• Formative assessment by observation in day to day working</li> </ul>
<p><b>Psychomotor Domain</b></p>	
<p>Able to carry out research and report Writing</p>	<p>Research projects in urban and rural area</p>
<p>1. Able to perform routine tests in a Public Health Laboratory.</p>	<ul style="list-style-type: none"> <li>• Practical and viva on chlorination, insecticides, nutrition specimens, Biomedical waste management</li> </ul>



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<p>2. Able to collect water specimens, Plan a diet ,Detect adulteration offoods and study of entomology specimens</p>	<ul style="list-style-type: none"> <li>• Formative assessment while doing procedure.</li> <li>• Viva</li> <li>• Practical</li> </ul>
<p>3. Perform data collection, carry out</p>	<ul style="list-style-type: none"> <li>• <del>Research</del> projects</li> </ul>
<p>4 Be familiar with</p>	<ul style="list-style-type: none"> <li>• Formative</li> </ul>
<p>epidemiology publichealth legislations, occupational health</p>	<p>assessment byobservation in day to day working</p> <ul style="list-style-type: none"> <li>• Seminar , Microteaching</li> </ul>

  
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**ASSESSMENT METHODS OF LEARNING OUTCOME - POST GRADUATE(MS  
SURGERY)**

Learning outcome	Assessment
Cognitive domain	
<p>1. Diagnose routine and complex clinical problems on the basis of presenting clinical symptoms and elicit various relevant clinical signs in OPD patients.</p>	<ul style="list-style-type: none"> <li>• Interpretation of reports</li> <li>• Interpretation of Clinical Signs</li> <li>• Arriving at a clinical diagnosis</li> <li>• Mapping a Management Plan</li> </ul>
<p>2. Interpret and correlate clinical and laboratory data so that clinical manifestations of diseases can be explained.</p>	<ul style="list-style-type: none"> <li>• Clinical chart interpretation</li> <li>• Viva</li> <li>• Log book</li> </ul>
<p>3. Advise on the appropriate laboratory and radiological tests necessary to arrive at a diagnosis in a problematic case.</p>	<ul style="list-style-type: none"> <li>• Clinical case examination</li> <li>• Practical exams</li> </ul>
<p>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)</p>	<ul style="list-style-type: none"> <li>• Practical examination</li> <li>• Surgical Pathology Specimen viva</li> <li>• Log book</li> </ul>
<p>5. Should be able to teach Surgery to undergraduates.</p>	<ul style="list-style-type: none"> <li>• Microteaching</li> <li>• Log book</li> </ul>
<p>6. Plan, execute, analyse and present research work.</p>	<ul style="list-style-type: none"> <li>• Thesis</li> <li>• Oral paper presentation in</li> </ul>

	<p>conferences</p> <ul style="list-style-type: none"> <li>• Case Reports</li> <li>• Log book</li> </ul>
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"> <li>• Formative assessment by observation in day to day working</li> </ul>
<b>Affective Domain</b>	
1. Develop communication skills toward 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"> <li>• Formative assessment by observation in day to day working</li> </ul>
<b>Psychomotor Domain</b>	
1. Able to perform routine clinical tests in OPD and Ward setting.	<ul style="list-style-type: none"> <li>• Practical and viva</li> <li>• Day to day assessment of grossing of specimens</li> </ul>
2. Able to perform common interventions in emergent and elective patients.	<ul style="list-style-type: none"> <li>• Formative assessment while doing procedure.</li> <li>• Viva</li> </ul>
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"> <li>• Practical examination</li> <li>• Viva</li> </ul>
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"> <li>• Formative assessment by observation in day to day working</li> </ul>

*Sachin N*


**DR. SACHIN NAIK**  
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Professor & Head, Dept. of Gen. Surgery  
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**MIMER MEDICAL COLLEGE & DR. B. S. T. R. HOSPITAL, TALEGAONDABHADE**


**DEPARTMENT OF ORTHOPAEDICS**

**ASSESSMENT METHODS OF LEARNING OUTCOME-POST GRADUATE(MS ORTHOPAEDICS)**


<b>Learning outcome</b>	<b>Assessment</b>
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/vivavoce/ OSCE/MCQ
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/vivavoce/ OSCE/MCQ
3. Define and describe pathophysiology of shock (circulatory failure)	Written/vivavoce/ OSCE/MCQ
4. Describe the principles and stages of bone and soft tissue healing.	Written/vivavoce/ OSCE/MCQ
5. Enumerate, classify and describe the various bony/ soft tissue injuries affecting the axial and appendicular skeletal system in adults and	Written/vivavoce/ OSCE/MCQ

  
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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
7. Describe the mechanism of homeostasis, fibrinolysis and methods to control haemorrhage.	Written/viva voce/ OSCE/MC Q
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
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/vi va voce/ OSCE/MC Q
10. Describe the pathogenesis, clinical features plan and interpret investigations and institute management in	Written/vi va voce/ OSCE/MC Q

  
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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>12. Identify the diagnosis and describe management of musculoskeletal manifestation of AIDS and HIV infection.</p>	<p>Written/viva voce/ OSCE/MCQ</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>14. Describe the aetiopathogenesis, clinical</p>	<p>Written/viva voce/ OSCE/MCQ</p>

  
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<p>presentation, Identification, Plan investigation and institute treatment for oncologic problems of musculoskeletal system both benign and malignancies, primary and secondary</p>	
<p>15. Understand the basis , principles of biomaterials and orthopaedic metallurgy</p>	<p>Written/viva voce/OSCE/MCQ</p>
<p>16. Describe the principles of normal and abnormal gait and understand the biomedical principles of posture and replacement surgeries.</p>	<p>Written/viva voce/OSCE/MCQ</p>
<p>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</p>	<p>Formative assessment by observation in by day to day working/ mini CEX</p>
<p>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.</p>	<p>Formative assessment by observation in by day to day working/ mini CEX</p>

  
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<p>3. Develop communication skills to ward reports and professional opinion as well as to interact with patients, relatives, peers and paramedical staff, and for</p>	<p>Formative assessment by observation in by day to day working/ mini CEX</p>
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**effective teaching**

<p><b>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</b></p>	<p>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</p>
<p><b>2. Apply all types of POP casts/ slabs, splints and tractions as per need</b></p>	<p>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</p>
<p><b>3. Perform split thickness skin Grafting</b></p>	<p>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</p>
<p><b>4. Take an informed consent for standard orthopaedic procedures</b></p>	<p>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</p>
<p><b>5. Perform closed/ open biopsies for lesions of bone, joints and soft tissues</b></p>	<p>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</p>
<p><b>6. Perform split thickness skin grafting and local flaps</b></p>	<p>OSCE with simulation based assessment, viva</p>

	Formative assessment by observation in day to day working/ end of final posting examination theory and practical / OSPE/ log book
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
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
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
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
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

<p>12. Perform diagnostic arthroscopy on models and their patients</p>	<p>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</p>
<p>13. Perform carpal tunnel/tarsal tunnel release</p>	<p>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</p>
<p>14. Apply Ilizarov external fixator</p>	<p>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</p>
<p>15. Perform soft tissue releases in contractures, tendon lengthening and correction of deformities</p>	<p>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</p>
<p>16. Perform amputations at different levels.</p>	<p>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</p>
<p>17. Perform corrective surgeries for CTEV, DDH, perthes/ skeletal dysplasia.</p>	<p>OSCE with simulation based assessment, viva Formative assessment by observation in day today working/ end of final posting</p>

	examination theory and practical / OSPE/ log book
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
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
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
21. Assist in operative arthroscopy of variousjoints	Viva, formative assessment by observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester
22. Assist/ perform Arthrodesis of major jointslike 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
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
24. Assist in surgical operations on benign andmalignant 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
25. Assist in open reduction	Viva, formative assessment by

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
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
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
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
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
30. Provide pre and post OP care	Viva, formative assessment by observation in day to day working/ MiniCEX/ log book/ Practical examination at the end of each semester
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



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

**Department of Anaesthesiology**

**PROGRAM SPECIFIC LEARNING OUTCOME- PG( MD Anesthesiology)**

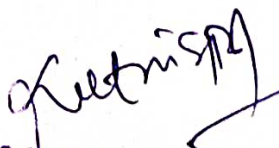
<b>Learning outcome</b>	<b>Assessment</b>
<b>Cognitive domain</b>	
Demonstrate knowledge of Anatomy related to Airway and regional anaesthesia	Viva voce
Demonstrate knowledge of Physiology of various systems and translate its application in a problem solving manner	Viva voce
Demonstrate knowledge of Biochemistry relevant to homeostasis in health and diseases.	Viva voce
Demonstrate knowledge of commonly used drugs in anaesthesia and resuscitation.	OSPE Viva voce
Demonstrate knowledge of 'principles of physics' that govern functions of basic anaesthesia	Viva voce
Demonstrate knowledge of importance of pre-anaesthetic assessment and optimization of a patient	Formative assessment
Demonstrate knowledge of pain management	Practical examination Viva
Demonstrate knowledge of post-operative care in the post-anaesthesia recovery	Formative assessment by observation in day to day working
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
Plan, execute, analyse and present research work.	Thesis Oral paper presentation in conferences Log book

<b>Affective Domain</b>	
Should be able to function as a part of a team	Formative assessment by observation in day to day working
Always adopt ethical principles	Formative assessment by observation in day to day working
Develop communication skills	Formative assessment by observation in day to day working
<b>Psychomotor domain</b>	
Demonstrate ability as a perioperative physician	Formative assessment by observation in day to day working
Demonstrate abilities in Emergency Anaesthesia, Trauma and Resuscitation	Formative assessment DOAP OSCE
Demonstrate ability to provide special sedation /anaesthesia requirements outside operating Room	Formative assessment DOAP OSCE
Demonstrate abilities in the Post Anaesthesia Care Unit (PACU)	Formative assessment DOAP OSCE
Demonstration of abilities in Intensive Care Unit	Formative assessment DOAP OSCE
Demonstration of abilities in Acute and Chronic Pain Management	Formative assessment DOAP OSCE
Demonstrate practice of Regional Anaesthesia	Formative assessment DOAP OSCE
Demonstrate practice of Thoracic Anaesthesia, Cardiovascular Anaesthesia, Paediatric Anaesthesia, Transplant anaesthesia, Neuroanaesthesia	Formative assessment DOAP OSCE
Should be able to perform special skills required in practice of anaesthesia.	Log book DOAP

  
**Dr. Shilpa Gurav**  
 Prof. & HOD  
 Reg. No. 85808  
 Dept. of Anaesthesiology  
 MINER Medical College  
 Talgaon Dehade

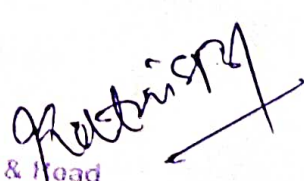
## PROGRAMME SPECIFIC LEARNING OUTCOME- PG-(ENT)

Learning Outcome	Assessment
<b>BROAD</b> 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.	<b>THEORY</b>
<b>Knowledge</b>	
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"> <li>• Didactic lectures</li> <li>• Cadaver demonstrations</li> <li>• Integrated learning sessions</li> <li>• Workshops</li> <li>• Blended learnings</li> <li>• Journal clubs,</li> <li>• Group discussions</li> </ul>
<b>BROAD</b> Knowledge about Hearing loss, Otalgia, 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.	
<b>Knowledge</b>	
Know about Pathology, Clinical features of Common Diseases of External Ear namely <ul style="list-style-type: none"> <li>• Otitis Externa of 2 types</li> <li>• Myringitis of various types</li> <li>• Foreign body in the ear</li> <li>• Exostosis of EAC</li> <li>• Malignant Otitis Externa</li> <li>• BNOE</li> <li>• Congenital deformities of Pinna</li> <li>• Preauricular sinus</li> <li>• Traumatic injuries to pinna</li> <li>• Acute perichondritis of Pinna</li> </ul>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>

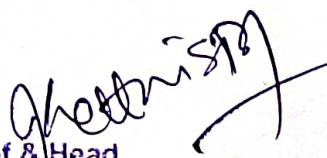
  
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**Department of ENT**  
**MIMER Medical College & BSTRH**  
**Talgaon, Bhabha-410007**



<p>Know about Pathology, Clinical features of Common Diseases of Middle Ear namely</p> <ul style="list-style-type: none"> <li>• Chronic Otitis Media including Cholesteatoma</li> <li>• Acute Otitis Media</li> <li>• Serous Otitis Media</li> <li>• Hemotympanum</li> <li>• Otosclerosis and Tympanosclerosis</li> <li>• Tympanic membrane Perforation</li> <li>• Non-suppurative otitis media</li> <li>• Management of chronic suppurative otitis media</li> </ul>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
<b>Learning Outcome</b>	<b>Assessment</b>
<p><b>BROAD</b></p> <p>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.</p>	
<b>Knowledge</b>	
<p>Know about Pathology, Clinical features of Common Diseases of External Ear namely</p> <ul style="list-style-type: none"> <li>• Otitis Externa of 2 types</li> <li>• Myringitis of various types</li> <li>• Foreign body in the ear</li> <li>• Exostosis of EAC</li> <li>• Malignant Otitis Externa</li> <li>• BNOE</li> <li>• Congenital deformities of Pinna</li> <li>• Preauricular sinus</li> <li>• Traumatic injuries to pinna</li> <li>• Acute perichondritis of Pinna</li> </ul>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
<p>Know about Pathology, Clinical features of Common Diseases of Middle Ear namely</p> <ul style="list-style-type: none"> <li>• Chronic Otitis Media including Cholesteatoma</li> <li>• Acute Otitis Media</li> <li>• Serous Otitis Media</li> <li>• Hemotympanum</li> <li>• Otosclerosis and Tympanosclerosis</li> <li>• Tympanic membrane Perforation</li> <li>• Non-suppurative otitis media</li> <li>• Management of chronic suppurative otitis media</li> </ul>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>

  
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 Talgaon Dabhada-412207

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


  
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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"> <li>5. Interpret Vestibular tests like caloric testing (Water and Air) stopping test, Fukuda's test, Evoked response audiometry</li> <li>6. Ear irrigation for removal of wax, debris, and foreign body</li> <li>7. Ear Packing</li> <li>8. Foreign body removal from the ear</li> <li>9. Repair of wounds of the ear</li> <li>10. Mastoid dressing and bandaging</li> <li>11. Simple removal of aural polyp under local anaesthesia</li> <li>12. Drainage of auricular hematoma or abscess under local anaesthesia</li> <li>13. Simple myringotomy under local anaesthesia</li> <li>14. Excision of sebaceous or dermoid cyst under local anaesthesia</li> <li>15. Cortical mastoidectomy</li> </ol>	
<p><b>EMERGENCY OTOTOLOGY OPERATIONS:</b></p> <ol style="list-style-type: none"> <li>1. Foreign body in ear</li> <li>2. Simple myringotomy under local anaesthesia or general anaesthesia</li> <li>3. Drainage of (under GA) mastoid abscess</li> <li>4. Repair of Pinna injuries (under GA/LA)</li> </ol>	<ul style="list-style-type: none"> <li>• Daily Formative in clinical postings and</li> <li>• Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP</li> </ul>

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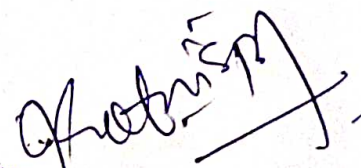
Learning Outcome	Assessment
<p><b>BROAD</b></p> <ol style="list-style-type: none"> <li>1. Know about Pathology, Clinical features of Common E.N.T Diseases of Children</li> <li>2. Appreciate that Pediatric problems are of different patho-mechanics compared to adult and children are not miniaturized adults</li> <li>3. Improving Paediatric Otolaryngological Consultation</li> </ol>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
<p><b>Knowledge</b></p> <p>Know about Pathology, Clinical features of Common ENT Diseases of children like</p> <ul style="list-style-type: none"> <li>• Congenital deafness</li> <li>• Testing Hearing in Children.</li> <li>• Otitis Media with Effusion.</li> <li>• Acute Suppurative Otitis Media in Children</li> <li>• Chronic Suppurative Otitis Media in Children</li> <li>• Foreign Bodies in the Ear</li> <li>• Nose and Throat</li> <li>• Tonsils &amp; Adenoids.</li> <li>• Stertor &amp; Stridor</li> <li>• The Drooling Child</li> </ul>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
<p>Know about Pathology, Clinical features of Common Otological Diseases of children like</p> <ul style="list-style-type: none"> <li>• Hearing Impairment in Preschool Children.</li> <li>• Otitis Media with Effusion.</li> <li>• Acute Suppurative Otitis Media in Children.</li> <li>• Chronic Suppurative Otitis Media in Children.</li> <li>• Surgery of Congenital Abnormalities of the External &amp; Middle Ear.</li> <li>• Management of Hearing Impaired Child.</li> </ul>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>

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


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




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

  
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<p>Know about Pathology, Clinical features of Common Esophageal Diseases of children like</p> <ul style="list-style-type: none"> <li>• Foreign Bodies in the Oesophagus</li> <li>• Achalasia cardia</li> <li>• Barret's oesophagitis</li> <li>• GERD</li> <li>• Dysphagia</li> <li>• Globus hystericus</li> </ul>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
<p>Know about Pathology, Clinical features of Common Head and Neck diseases</p> <ul style="list-style-type: none"> <li>• Craniofacial Anomalies.</li> <li>• Cervical fascia, facial spaces in neck, retro-pharyngeal and parapharyngeal</li> <li>• Abscesses</li> <li>• Goitre and diseases of the thyroid and carcinoma of thyroid</li> <li>• Large blood vessels in neck, thoracic duct development of major cervical and thoracic blood vessels.</li> <li>• Head and neck reconstructive surgery</li> </ul>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
<p><b>Skills</b></p>	
<ol style="list-style-type: none"> <li>1. Perform Examination &amp; Endoscopy of the Upper Aerodigestive Tract and Oral Cavity.</li> <li>2. Indirect Laryngoscopy Examination (IDL)</li> <li>3. Obtain a throat swab for PCR, Culture and Sensitivity</li> </ol>	<ul style="list-style-type: none"> <li>• Daily Formative in clinical postings and Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP</li> </ul>
<ol style="list-style-type: none"> <li>4. Drainage of quinsy</li> <li>5. Endotracheal intubation</li> <li>6. Foreign body in pharynx</li> <li>7. Foreign body in esophagus</li> <li>8. Foreign body in laryngotracheobronchial tree</li> <li>9. Drainage of (under GA/LA) Parapharyngeal abscess</li> <li>10. Drainage of (under GA/LA) Retropharyngeal abscess</li> <li>11. Drainage of (under GA/LA) Parotid abscess</li> </ol>	<ul style="list-style-type: none"> <li>• Daily Formative in clinical postings and Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP</li> <li>• Cadaver dissections</li> <li>• Mannequin demonstration</li> </ul>

  
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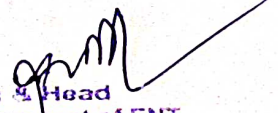


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| <ol style="list-style-type: none"><li>12. Drainage of (under GA/LA Ludwig's angina</li><li>13. Reduction and fixation under general anaesthesia Fracture of facial bone</li><li>14. Fracture of laryngeal framework</li><li>15. Removal of submandibular duct stone under local anaesthesia</li></ol> |  |
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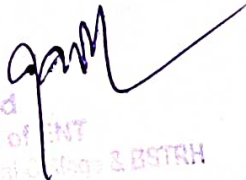
Learning Outcome	Assessment
<b>BROAD</b> Knowledge about <ul style="list-style-type: none"> <li>• Deviated nasal septum,</li> <li>• Acute and Chronic Rhinosinusitis, Epistaxis,</li> <li>• Headache and Facial pain,</li> <li>• nasal polyp,</li> <li>• Tumors of Paranasal Sinuses, granulomatous disease of Nose like Rhinosporidiosis,</li> <li>• Atrophic rhinitis</li> <li>• Nasal myiasis</li> <li>• Disorders of Olfaction and taste</li> <li>• Surgical Management of Sinusitis.</li> <li>• Complications of Sinusitis.</li> <li>• Cerebrospinal Fluid Rhinorrhoea.</li> <li>• Fracture of Facial Skeleton.</li> </ul>	
<b>Knowledge</b> Know about Pathology, Clinical features of Common Diseases of External Nose <ul style="list-style-type: none"> <li>• Deviated nasal pyramid</li> <li>• Saddle nose deformity</li> <li>• Le fort fractures</li> <li>• NOE fractures</li> <li>• Tripod fractures</li> <li>• Fracture of Nasal bones</li> <li>• Rhinoplasty operation</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>• Cadaver dissections Mannequin demonstration</li> </ul>
Know about Pathology, Clinical features of Common Diseases of Nasal septum <ul style="list-style-type: none"> <li>• Septal Perforation</li> <li>• Septal Hematoma and Abscess</li> <li>• Septal fracture</li> <li>• Deviated nasal septum</li> </ul>	<ul style="list-style-type: none"> <li>• Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>

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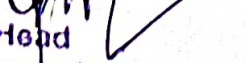
<p>Know about Pathology, Clinical features of Common Diseases of Nasal cavity</p> <ul style="list-style-type: none"> <li>• Congenital Anomalies of the Nose</li> <li>• Acute and Chronic Rhinosinusitis,</li> <li>• Abnormalities of olfaction and taste</li> <li>• Food Allergy &amp; Intolerance</li> <li>•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

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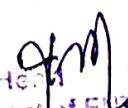
<ol style="list-style-type: none"> <li>5. Anterior Nasal Packing in management of Epistaxis</li> <li>6. Diagnostic Nasal Endoscopy</li> <li>7. Nasal wash or irrigation</li> <li>8. Simple removal of nasal polyp under local anaesthesia</li> <li>9. Excision of sebaceous or dermoid cyst under local anaesthesia</li> <li>10. Nasal cauterization (chemical or electric) under local anaesthesia</li> <li>11. Removal of bleeding polypus of nasal septum under local anaesthesia</li> </ol>	<p>OSCE, Viva, Grand rounds, DOAP</p>
<p><b>EMERGENCY RHINOLOGY OPERATIONS</b></p> <ol style="list-style-type: none"> <li>12. Foreign body in nose</li> <li>13. Drainage of (under GA/LA) Septal hematoma</li> <li>14. Drainage of (under GA/LA) Septal abscess</li> <li>15. Reduction and fixation under (GA/LA) Fracture of nasal bone</li> <li>16. Reduction and fixation under (GA/LA) Fracture of nasal septum</li> <li>17. Active epistaxis management Packing: anterior/posterior</li> <li>18. Cauterization: chemical or electric</li> </ol>	<ul style="list-style-type: none"> <li>• Direct supervised learning</li> <li>• Daily Formative in clinical postings and</li> <li>• Summative clinical examinations, Clinical examination, Direct observation, OSCE, Viva, Grand rounds, DOAP</li> </ul>

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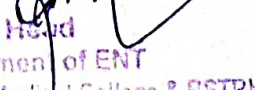
Learning Outcome	Assessment
<p><b>BROAD</b></p> <ul style="list-style-type: none"> <li>➤ Able to perform Common Operations done in Department of E.N.T on a day today basis</li> <li>➤ Perform minor surgical procedures like ear syringing ear Dressing, nasal packing etc.</li> </ul>	<ul style="list-style-type: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

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

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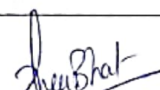
<ol style="list-style-type: none"> <li>9. Canalization of congenital choanal atresia</li> <li>10. Septorhinoplasty</li> <li>11. External frontoethmoidectomy</li> <li>12. Functional endoscopic sinus surgery</li> <li>13. Excision of dental of dentigerous cyst</li> </ol>	
<p><b>PHARYNGEAL OPERATIONS</b>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

  
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Programme Specific Learning Outcome – PG (MD Psychiatry)

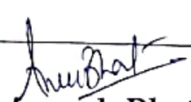
Learning Outcome	Assessment Method
1. Identify various presentations and the natural history, onset, and prognostic features of depression across the life span.	Written/Viva Voce
2. Select and monitor appropriate psychiatric medications used in treating depression.	Written/Viva Voce
3. Recognize the signs and symptoms of major depression, bipolar illness, and dysthymia so that given a patient description you can recognize these syndromes.	Skill Station/Practical exam/OSCE/OSPE
4. Assess a patient's risk for suicide and be able to appropriately respond to high risk patients.	Skill Station/Practical exam/OSCE/OSPE
5. Assess the impact of depression upon the patient's level of function.	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).	Written/Viva Voce
7. Describe anxiety disorder symptom presentations as they vary across the life span (e.g. child and elderly).	Written/Viva Voce
8. Identify major classes of psychiatric medications used in treating anxiety disorders and discuss potential side effects of each.	Written/Viva Voce
9. Select and monitor appropriate psychiatric medications used in treating anxiety disorders.	Written/Viva Voce
10. Identify the primary psychosocial therapies used to treat anxiety disorders.	Written/Viva Voce
11. Understand the major models of substance dependence and implications for treatment.	Written/Viva Voce
12. Know how to screen for alcohol and drug problems in general medical practice.	Written/Viva Voce
13. Have working knowledge and an approach to the differential diagnosis of substance dependent patients	Written/Viva Voce

  
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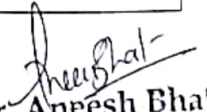




with co-morbid psychiatric disorders.	
14. Know the signs, symptoms, clinical course, and treatment of withdrawal (outpatient detoxification) for the various drugs of abuse	Written/Viva Voce
15. Know the indications, contraindications, and efficacies of pharmacotherapy to treat substance abuse	Written/Viva Voce
16. Become knowledgeable of community resources for treatment of addiction.	Skill Station/Practical exam/OSCE/OSPE, Written/Viva Voce
17. State the definition of psychosis and describe how to recognize and diagnose psychotic conditions.	Skill Station/Practical exam/OSCE/OSPE
18. Perform an initial diagnostic evaluation of a patient with psychotic symptoms, including history and mental status examination.	Skill Station/Practical exam/OSCE/OSPE
19. Summarize the epidemiology, diagnostic criteria, clinical features, course and complications of schizophrenia.	Written/Viva Voce
20. Recognize the other major primary psychotic disorders including mood disorders, schizoaffective disorder, brief psychotic disorder, and delusional disorder.	Written/Viva Voce
Describe common and serious side effects of frequently used antipsychotic medications.	Written/Viva Voce
22. Recognize the pharmacologic and psychosocial treatments of schizophrenia and other psychotic disorders.	Written/Viva Voce
23. Describe each personality disorder cluster and name its component disorders.	Written/Viva Voce
24. Describe the basic characteristics of each personality disorder.	Written/Viva Voce
25. Demonstrate a working knowledge of Dialectical Behaviour Therapy (DBT).	Skill Station/Practical exam/OSCE/OSPE
26. Recognize the treatments for other personality disorders.	Written/Viva Voce
27. Conduct a suicide assessment that Differentiates between acute and chronic suicidal ideation.	Skill Station/Practical exam/OSCE/OSPE

  
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28. Describe major characteristics of disorders first presenting in childhood or adolescence including ADHD, Pervasive Developmental Disorders, Learning Disorders, and Mental Retardation.	Written/Viva Voce
29. Recognize the ways in which a specific psychiatric disorder may present differently in childhood/adolescence.	Written/Viva Voce
30. Conduct and interpret a child/adolescent mental status exam with a child and conduct a parent interview.	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.	Written/Viva Voce
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.	Written/Viva Voce
33. Recognize medical symptoms of psychiatric disorders.	Written/Viva Voce
34. Recognize psychiatric symptoms of medical disorders.	Written/Viva Voce
35. Recognize, assess and manage the delirious patient.	Written/Viva Voce
36. Conduct and interpret a Mini-Mental Status Exam or MOCA to assess cognitive function.	Skill Station/Practical exam/OSCE/OSPE
37. Review commitment laws for involuntary treatment, and evaluate a patient's capacity to give informed consent.	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.	Written/Viva Voce
39. Recognize the complexity of the neuropsychiatric patient and the interactions between medical, neurological, and psychiatric illnesses.	Written/Viva Voce
40. Recognize, assess, and treat delirium.	Written/Viva Voce

  
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# PGDMLT

## ASSESSMENT METHODS OF LEARNING OUTCOME- DMLT (BIOCHEMISTRY)

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

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## ASSESSMENT METHODS OF LEARNING OUTCOME - PG DMLT (PATHOLOGY)

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

*Shikha*

**ASSESSMENT METHODS OF LEARNING OUTCOME -  
PG DMLT(MICROBIOLOGY)**

<b>Learning outcome</b>	<b>Assessment</b>
1. Able to describe principles of technical procedures of diagnostic Bacteriology, Mycology, Parasitology, Immunology & Virology	<ul style="list-style-type: none"> <li>• Formative &amp; Summative assessment (BAQ, SAQ &amp; LAQ)</li> <li>• Practical examination</li> <li>• Viva</li> </ul>
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"> <li>• Formative &amp; Summative assessment (BAQ, SAQ &amp; LAQ)</li> <li>• Practical examination</li> <li>• Viva</li> </ul>
3. Able to prepare routinely required culture media e.g. BAMAC, CH, MH, NA, & also special media	<ul style="list-style-type: none"> <li>• Practical examination</li> <li>• Viva</li> </ul>
4. Able to perform culture techniques, biochemicals and ABST	<ul style="list-style-type: none"> <li>• Practical examination</li> <li>• Viva</li> </ul>

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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"><li>• Practical examination</li><li>• Viva</li><li>• Formative and Summative assessment (BAQ,SAQ &amp; LAQ)</li></ul>
<p>6. Able to understand laboratory management, receiving and recording of specimens and maintaining of records</p>	<ul style="list-style-type: none"><li>• Practical examination</li><li>• Viva</li><li>• Formative and Summative assessment</li><li>• (BAQ,SAQ &amp; LAQ)</li></ul>

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## CCMP

## ASSESSMENT METHODS OF LEARNING OUTCOME- CCMP

## Dept. of Pharmacology

Learning Outcome	Assessment
<b>Knowledge</b>	
Describe Absorption, distribution, Metabolism, Excretion of drugs	<ul style="list-style-type: none"> <li>Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
Describe principles of Pharmacovigilance & ADR reporting systems	<ul style="list-style-type: none"> <li>Formative &amp; Summative examination comprising of MCQ, BAQ, SAQ &amp; LAQ</li> <li>Viva</li> <li>Practical examination</li> <li>OSPE</li> </ul>
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"> <li>Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
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"> <li>Drugs used in anemias</li> <li>Colony stimulating factors</li> </ol>	<ul style="list-style-type: none"> <li>Formative &amp; Summative examination, comprising of MCQ, BAQ, SAQ &amp; LAQ</li> </ul>
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
<b>Skills</b>	
Demonstrate understanding of the use of various dosage forms (oral/local/parenteral: solid/liquid)	<ul style="list-style-type: none"> <li>Skill assessment</li> </ul>
Prepare oral rehydration solution from ORS packet and explain its use.	<ul style="list-style-type: none"> <li>Skill assessment</li> </ul>
Perform a critical evaluation of the drug promotional literature	<ul style="list-style-type: none"> <li>OSPE</li> </ul>

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

# M.I.M.E.S. COLLEGE TALEGAON (D)

## Outcome based education and courses in last five years

- The learning objectives, outcomes and course outcomes for the
- Systems, procedures, standards, national regulatory authority (NMC) are followed in each course.
- At the beginning of each course, students are made aware of the learning objectives and outcomes.
- MIEY training
- Interns and faculty
- Regular meetings
- department.
- Special teaching methods
- Evaluation methods
- Various methods
- Feedback



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