



ELECTIVES

LOKMANYA TILAK
MUNICIPAL GENERAL
HOSPITAL & MEDICAL
COLLEGE

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Head of Electives Committee
Head of the Department
Anaesthesiology



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ANATOMY

Head of the Department: Dr. Rucha Kulkarni

Extension number: 3237

Name of Block	01
Name of Elective	Histology staining techniques
Location of Hospital lab or research facility	Histology lab, Anatomy room, Dept Of Anatomy
Name of internal preceptors	Dr Kishor D. Khushale Dr. R. R. Kulkarni Dr. M. A. Mahendrakar Dr. J. S. Charania Dr. S.D. Sakore Dr. V. V. Kulkarni Dr. D. N. Khedekar Dr. R. A. Gole Dr. M. G. Lone Dr. P. M. Meshram Dr. M.R. Khandode Dr. Md. Arboddin Smt. Nisha Randhir Smt. Rohini Shete
Learning objective of elective	Identifying tissues which will helps in identifying lesions better
Number of students that can be accommodate in this elective	05
Learning resources for students	Anatomy departmental library Histology fully equipped lab
List of activities in which students will participate	Self-directed learning Teaching first MBBS students Hands on training
Portfolio entries required	Knowledge of First MBBS and Pathology
Log book entries required	Yes
Assessment	Attendance and summative assessment

Name of Block	01
Name of Elective	Neuromind
Location of Hospital lab or research facility	Museum, Dept of Anatomy
Name of internal preceptors	Dr Kishor D. Khushale
	Dr. R. R. Kulkarni
	Dr. M. A. Mahendrakar
	Dr. J. S. Charania
	Dr. S.D. Sakore
	Dr. V. V. Kulkarni
	Dr. D. N. Khedekar
	Dr. R. A. Gole
	Dr. M. G. Lone
	Dr. P. M. Meshram
	Dr. M.R. Khandode
	Dr. Md. Arboddin
Learning objective of elective	To train students towards MD Psychiatry
	To go through research work done to date related to mind
Number of students that can be accommodate in this elective	05
Learning resources for students	Anatomy departmental library
	Museum, Dept of Anatomy
List of activities in which students will participate	Self-directed learning
	Teaching first MBBS students (Time based)
Portfolio entries required	Knowledge of First MBBS Neuroanatomy and at least one Psychiatry posting
	(It can be a primer to Psychiatry posting)
Log book entries required	Yes
Assessment	Attendance and summative assessment

BIOCHEMISTRY

Head of the Department: Dr.Pramod Ingale

Extension number: 3222

Name of Block	Block 1
Name of Elective	Interpretation of lab reports
Location of hospital Lab/research facility	Department of Biochemistry, LTM Medical college hospital
Name of internal preceptor(s)	<p>Faculty of Dept of Biochemistry, Anatomy, Physiology, Medicine, Chest Medicine & Paediatrics</p> <p>1) Laboratory safety & pre-analytical variables- Dr Sarvabhai, Dr Snehal</p> <p>2) Quality control & orientation to laboratory with instrumentation-Dr Pooja Rai, Dr Pooja L</p> <p>3) Liver Function Test- Dr N.Karnik, Dr Megha</p> <p>4) Renal Function Test- Dr Vaishnavi, Dr Mayuri</p> <p>5) Lipid profile-Dr N.Karnik, Dr Nandan</p> <p>6) Thyroid profile- Dr Manoj L</p> <p>7) Iron Profile-Dr N Karnik, Dr Subarna</p> <p>8) ABG- Dr Jayraj, Dr Sarvabhavi</p> <p>9) New-born screening -Dr P Ingale</p> <p>10) Reflection- Dr P Ingale</p>

Learning objectives of elective	<p>The learner should be able to</p> <ul style="list-style-type: none"> a) know the anatomy of various organs like liver, kidney, endocrine glands etc. b) know the physiology of various organs like liver, kidney, endocrine glands etc. c) Understand the pathophysiology of various disorders affecting these organs. d) Understand the equipment, Principle, and procedure of measurement of various biochemical tests e) understand quality control practices & necessary corrective & preventive actions f) independently analyze sample testing g) know the sample acceptance and rejection criteria's. h) know the various other equipments - POCT/non POCT for analysis i) Should be able to interpret lab reports as per the clinical status of the patient. j) Should be able to comment on calculated parameters and their importance.
Number of students that can be accommodated in this elective	20
Prerequisites for elective	Knowledge of standard work precautions and good clinical practice skills
List of activities of student participation	<ul style="list-style-type: none"> a. Observation of collection and transport of sample to the laboratory. b. To accept or reject samples based on Acceptance or Rejection criteria. c. Hands on working on lab equipment d. Interpretation of lab reports. <p>To take decision and necessary corrective and preventive actions for IQC outliers</p>

Learning Resource	<ul style="list-style-type: none"> a. Guided discussions & observation of procedure with preceptor and lab staff. b. Textbooks of Biochemistry, Physiology, Medicine & Pediatrics Equipment manuals
Portfolio entries required	Nil
Log book entry require	Satisfactory completion of posting authenticated by preceptor
Assessment	<p>Assessment: Total 100 marks</p> <ul style="list-style-type: none"> 1. Regular ongoing assessment by observation (DOAP) - 50 marks <ul style="list-style-type: none"> a. Accepting /Rejecting samples b. Performing analysis of blood samples c. Maintaining the equipment d. Quality control practices e. Ability to carry out corrective and preventive actions f. Interpretation of Laboratory reports, co-ordination with clinicians 2. Written examination /assessment - 20 marks 3. Presentation -20 marks 4. Logbook-10 marks
Other comment	---

PHYSIOLOGY

Head of the Department: Dr.Amit Fadia

Extension number: 3240

Name of Block	Block 1
Name of Elective	ECG
Location of Hospital lab or research facility	Lab II, Dept of Physiology
Name of internal preceptors	Dr Neela Iyer
Learning objective of elective	To understand the physiology of ECG To record ECG in normal & diseased individual Students to understand physiology of ECG& record it
Number of students that can be accommodate in this elective	5
Learning resources for students	Dept library & patients
List of activities in which students will participate	To record & learn NORMAL ECG recording in healthy volunteers & patients
Portfolio entries required	yes
Log book entries required	yes
Assessment	Recording & interpretation of ECG of a patient

Name of Block	Block 1
Name of Elective	Autonomic function tests
Location of Hospital lab or research facility	Dept of Physiology, LTMMC
Name of internal preceptors	Dr Noorin Bhimani
Learning objective of elective	<ol style="list-style-type: none"> 1. To understand Autonomic Nervous system 2. To know & record Heart rate variability
Number of students that can be accommodate in this elective	5
Learning resources for students	Library, laboratory, online
List of activities in which students will participate	To record & interpret autonomic functions
Portfolio entries required	yes
Log book entries required	yes
Assessment	Recording of HRV

Name of Block	Block 1
Name of Elective	Physiology of Yoga & Meditation
Location of Hospital lab or research facility	Dept of Physiology, LTMMC
Name of internal preceptors	Dr Laxmi Patel
Learning objective of elective	To learn the basic yogic practices & Hatha yoga To record various physiological parameters pre & post yoga
Number of students that can be accommodate in this elective	5
Learning resources for students	Department library, laboratory
List of activities in which students will participate	To learn Hatha Yoga To collect data before & after yogic practices & analyze
Portfolio entries required	yes
Log book entries required	yes
Assessment	Practical examination Satisfactory completion of the project

Name of Block	Block 1
Name of Elective	Pulmonary function test
Location of Hospital lab or research facility	Dept of Physiology LTMMC,
Name of internal preceptors	Dr Momi Baruah
Learning objective of elective	<ol style="list-style-type: none"> 1. To understand physiology of PFT 2. To record & interpret normal PFT 3. To interpret PFT in a patient
Number of students that can be accommodate in this elective	10
Learning resources for students	Library, laboratory & online
List of activities in which students will participate	To record & learn normal PFT in healthy volunteer
Portfolio entries required	
Log book entries required	yes
Assessment	Recording & interpretation of PFT

MICROBIOLOGY

Head of the Department: Dr.Dilip Turbadkar

Extension number: 3243/3244

Name of Block	Block 1
Name of Elective	Laboratory based antimicrobial resistance surveillance
Location of hospital Lab/research facility	Dept. of Microbiology, LTM Medical college hospital
Name of internal preceptor(s)	Dr.Desma D Souza
Name of external preceptor if applicable	--
Learning objectives of elective	<ol style="list-style-type: none"> 1. Surveillance of antimicrobial resistance in clinical isolates of common nosocomial pathogens 2. Phenotypic characterization of Antimicrobial resistance in these nosocomial pathogens 3. Understanding the antibiogram
Number of students that can be accommodated in this elective	02
Prerequisites for elective	Knowledge of standard work precautions and good clinical practice skills
List of activities of student participation	<ol style="list-style-type: none"> 1. Selection of appropriate clinical specimens for analysis 2. Working up cultures in the laboratory 3. Reading and interpreting antimicrobial susceptibility testing results 4. Interpreting phenotypic tests for drug resistance – MRSA, ICR, VRE and CRE 5. Preparing and interpreting a sample antibiogram
Learning Resource	ICMR SOP Bacteriology – AMRSN, NCDC – National program on AMR containment
Portfolio entries required	<ol style="list-style-type: none"> 1. Data of Antimicrobial susceptibility results 2. Sample antibiogram
Log book entry require	Satisfactory completion of posting authenticated by preceptor
Assessment	Attendance Successful verification of required portfolio entries, Successful completion of the posting as certified in the log book with a “meets expectation ‘M’ grade”
Other comment	---

Name of Block	Block 1
Name of Elective	HIV testing – NACO Strategies
Location of hospital Lab or research facility	Department of Microbiology, Lokmanya Tilak Municipal Medical College & General Hospital
Name of internal preceptor(s)	Dr.Dilip Turbadkar
Name of external preceptor if applicable	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. Understand National AIDS Control Program 2. Understand modes of transmission of HIV infection 3. Understand the different strategies in HIV testing and its application in clinical settings 4. Understand significance of pre and post-test counselling of client (patient)
Number of students that can be accommodated in this elective	02
Prerequisites for elective	Knowledge of Standard precautions and immunization for Hepatitis B
List of activities of student participation	<ol style="list-style-type: none"> 1. Participate in laboratory activities including collection of samples, separation of serum and HIV testing 2. Work with counsellor for pre and post-test counselling 3. Present at least 2 cases in department academic forum
Learning Resources	National AIDS Control Organization Ministry of Health & Family Welfare, Government of India
Portfolio entries required	Case record of at least 2clients (patient)
Log book entry required	Satisfactory completion of posting by preceptor.
Assessment	Attendance, Successful verification of required portfolio entries, Successful completion of the posting as certified in the log book with a “meets expectation ‘M’ grade”
Other comments	-

Name of Block	Block 1
Name of Elective	Infection Prevention and Control
Location of hospital Lab/research facility	Dept. of Microbiology, LTM Medical college hospital
Name of internal preceptor(s)	Dr.Mrudul Randive
Name of external preceptor if applicable	---
Learning objectives of elective	<ol style="list-style-type: none"> 1. Understand the importance of IPC In ICU setups 2. To understand the importance of hand hygiene in decreasing the healthcare associated infections 3. To monitor the hand hygiene practices with the help of WHO tool
Number of students that can be accommodated in this elective	02
Prerequisites for elective	Knowledge of standard work precautions and good clinical practice skills
List of activities of student participation	<ol style="list-style-type: none"> 1. Participate in IPC rounds in ICU along with microbiologist 2. Observe and document the compliance/ noncompliance to hand hygiene practices.
Learning Resource	NCDC and ICMR guidelines on IPC And CDC / WHO IPC reference material
Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of IPC rounds in a facility 2. Documentation of observation of Hand hygiene compliance as per WHO toolkit
Log book entry require	Satisfactory completion of posting authenticated by preceptor
Assessment	Attendance Successful verification of required portfolio entries, Successful completion of the posting as certified in the log book with a “meets expectation ‘M’ grade”
Other comment	---

Name of Block	Block 1
Name of Elective	Rapid tests for diagnosis of Infectious diseases
Location of hospital Lab or research facility	Department of Microbiology, Lokmanya Tilak Municipal Medical College & General Hospital
Name of internal preceptor(s)	Dr. Anita Ramchandran
Name of external preceptor if applicable	--
Learning objectives of elective	<ol style="list-style-type: none"> 5. Understand the various Infectious Diseases prevalent in India. 6. Understand application of rapid tests for diagnosis of Infectious Diseases. 7. Understand the basic principles of rapid tests
Number of students that can be accommodated in this elective	04
Prerequisites for elective	Knowledge of Standard Precautions and Good laboratory practices.
List of activities of student participation	<ol style="list-style-type: none"> 4. Participate in laboratory activities including sample collection, sample processing for rapid tests. 5. Present at least two cases of infectious diseases in departmental academic forum 6. Participate in academic programs of the department
Learning Resources	<ol style="list-style-type: none"> 1. WHO guidelines for rapid diagnostic tests in infectious diseases 2. Mandell, Douglas and Bennett's Infectious Disease Essentials 8th Edition 3. Monica Cheesebrough, District Laboratory Practice in Tropical Countries. 2nd Edition
Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of the testing activity 2. Documentation of case presentation
Log book entry required	Satisfactory completion of posting by preceptor.
Assessment	Attendance, Successful verification of required portfolio entries, Successful completion of the posting as certified in the log book with a "meets expectation 'M' grade"
Other comments	-

Name of Block	Block 1
Name of Elective	Emerging viral infections- Special reference to SARS CoV 2
Location of hospital Lab or research facility	Department of Microbiology, Lokmanya Tilak Municipal Medical College & General Hospital
Name of internal preceptor(s)	Dr.Anjali Swami
Name of external preceptor if applicable	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 8. Work as a part of laboratory team in diagnosis of SARS CoV 2 9. Understand the principles of investigation of SARS CoV 2 10. Understand the algorithm for diagnosis of SARS CoV 2
Number of students that can be accommodated in this elective	02
Prerequisites for elective	Knowledge of Standard precautions and Good Laboratory Practices
List of activities of student participation	<ol style="list-style-type: none"> 7. Participate in laboratory activities including sample collection, sample processing for Antigen testing. 8. Participate in academic programs of the department 9. Write up the laboratory work up of two patients with viral illness 10. Present at least two cases in departmental academic forum
Learning Resources	ICMR, CDC, WHO guidelines
Portfolio entries required	Case record of at least 2patients
Log book entry required	Satisfactory completion of posting by preceptor.
Assessment	Attendance, Successful verification of required portfolio entries, Successful completion of the posting as certified in the log book with a “meets expectation ‘M’ grade”
Other comments	-

Name of Block	Block 1
Name of Elective	National Tuberculosis Elimination Program (NTEP)
Location of hospital Lab or research facility	Department of Microbiology, Lokmanya Tilak Municipal Medical College & General Hospital
Name of internal preceptor(s)	Dr. Alka Shinde
Name of external preceptor if applicable	Mr. Parshuram Nikole – Senior treatment supervisor
Learning objectives of elective	<ol style="list-style-type: none"> 11. Understand the principles of National Tuberculosis Elimination Program (NTEP) 12. Be part of team managing cases of TB as per NTEP 13. Learn the principles and indications of different tests available for diagnosis of Tuberculosis
Number of students that can be accommodated in this elective	02
Prerequisites for elective	Knowledge of Airborne Precautions.
List of activities of student participation	<ol style="list-style-type: none"> 11. Participate in laboratory activities including sample collection, sample processing for TB. 12. Write up the laboratory work up of two patients with suspected tuberculosis 13. Participate in academic programs of the department 14. Present at least two cases in departmental academic forum
Learning Resources	WHO TB guidelines NTEP guidelines
Portfolio entries required	<ol style="list-style-type: none"> 3. Documentation of the work done in laboratory 4. Documentation of patients seen in TB OPD
Log book entry required	Satisfactory completion of posting by preceptor.
Assessment	Attendance, Successful verification of required portfolio entries, Successful completion of the posting as certified in the log book with a “meets expectation ‘M’ grade”
Other comments	-

Name of Block	Block 1
Name of Elective	Vector borne disease -Malaria
Location of hospital Lab or research facility	Department of Microbiology, Lokmanya Tilak Municipal Medical College & General Hospital
Name of internal preceptor(s)	Dr.Kanchan Joshi
Name of external preceptor if applicable	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. Understand the National Vector Borne Disease Control Program 2. Understand clinical approach and investigations in a suspected case of Malaria 3. Get hands on Laboratory diagnosis of Malaria 4. Understand the principles of management of Malaria.
Number of students that can be accommodated in this elective	02s
Prerequisites for elective	Knowledge of Standard precautions, good clinical & laboratory practices
List of activities of student participation	<ol style="list-style-type: none"> 1. Participate in laboratory activities including sample collection, sample processing for malaria testing. 2. Participate in academic programs of the department 3. Write and present the laboratory work up of two patients with suspected malaria.
Learning Resources	<ol style="list-style-type: none"> 1. https://main.mohfw.gov.in 2. Textbook of Parasitology-Dr.K.D. Chatterjee,13th Edition 3. Essentials of Medical Microbiology-Dr.Apurba Sastry,20th Edition
Portfolio entries required	<ol style="list-style-type: none"> 5. Documentation of the work done in laboratory 6. Case record of at least 2 patients
Log book entry required	Satisfactory completion of posting by preceptor.
Assessment	Attendance, Successful verification of required portfolio entries, Successful completion of the posting as certified in the log book with a “meets expectation ‘M’ grade”
Other comments	-

PATHOLOGY

Head of the Department: Dr. Anjali Amrapurkar

Extension number: 3177

Name of Block	Block 1
Name of Elective	Phlebotomy
Location of hospital Lab or research facility	Ground floor, OPD building., Lokmanya Tilak Municipal Medical College & General Hospital
Name of internal preceptor(s)	Dr. Anjali Amrapurkar
Name of external preceptor if applicable	--
Learning objectives of elective	To learn the correct technique and skill of Phlebotomy.
Number of students that can be accommodated in this elective	02
Prerequisites for elective	The students should have cleared 2 nd year MBBS
List of activities of student participation	Phlebotomy
Learning Resources	Handbook of laboratory technique - Mukherjee
Portfolio entries required	-
Log book entry required	Satisfactory completion of posting by preceptor.
Assessment	Attendance, Done by In charge at the end of the project.
Other comments	-

Name of Block	Block 1
Name of Elective	Transfusion reaction and blood banking
Location of hospital Lab or research facility	Blood bank (no. 4), 1 st floor, emergency services building. , Lokmanya tilak municipal medical college & general hospital
Name of internal preceptor(s)	Dr. Ankita Shende
Name of external preceptor if applicable	--
Learning objectives of elective	1. To explain the students the importance of detailed sample labeling and as to when a transfusion reaction should be suspected. 2. To make the students aware as to what should be done immediately upon suspicion of transfusion reactions. 3. To provide information so that the students get acquainted to the transfusion reaction work-up to be followed in our hospital.
Number of students that can be accommodated in this elective	05
Prerequisites for elective	The students should have cleared 2 nd year MBBS and must be willing to acquire basic knowledge about transfusion reactions in blood banking.
List of activities of student participation	.1. Sample acquisition and label checking. 2. Getting acquainted with the number of samples/ forms required and details of investigations needed in case of transfusion reactions. 15.
Learning Resources	1. Provision of details about Requisition forms to be filled by the clinicians and the blood bank technicians when transfusion reaction occurs. 2. Provision of Standard Operating 3. Procedures about transfusion reaction work-up currently followed in our Blood center.
Portfolio entries required	Yes
Log book entry required	Satisfactory completion of posting by preceptor.
Assessment	Attendance, Done by In charge at the end of the project.
Other comments	-

Name of Block	Block 1
Name of Elective	Basics in Hematology
Location of hospital Lab or research facility	Pathology department, Room no. 226, 2 nd floor, College building. Lokmanya Tilak Municipal Medical College & General Hospital
Name of internal preceptor(s)	Dr. Milind V.Patil
Name of external preceptor if applicable	--
Learning objectives of elective	<ol style="list-style-type: none"> 1. To explain the importance of detailed hematology sample processing of 3 and 5 Cell counters. 2. Interpretation of 15 differential graphs on 5-part cell counter. 3. To provide information so that the students get acquainted to the peripheral smear and bone marrow reporting in Hematology department. 4. To know the basic concepts of coagulation, processing of samples in automated coagulometer and interpretation of coagulation parameters.
Number of students that can be accommodated in this elective	02
Prerequisites for elective	The students should have cleared 2 nd year MBBS
List of activities of student participation	-
Learning Resources	<ol style="list-style-type: none"> 1. Blood and bone marrow samples of patients with hematological disorders. 2. Microscope
Portfolio entries required	5 interesting cases seen during postings
Log book entry required	Yes Satisfactory completion of posting by preceptor.
Assessment	Attendance, Microscopic examination of 5 differential graphs on 5-part cell counter.
Other comments	-

PHARMACOLOGY

Head of the Department: Dr. Sudhir Pawar

Extension number: 3160/3161

Name of Block	Phase II MBBS
Name of Elective	Drug safety and Pharmacovigilance
Location of Hospital lab or research facility	Department of Pharmacology, LTMMC & GH, Sion, Mumbai
Name of internal preceptors	Dr Sudhir Pawar, Professor and Head Dr Neha Kadhe, Professor (Addl) Dr Swati Patil, Associate Professor (Addl)
Learning objective of elective	<p>Broadly the drug safety and pharmacovigilance aspects in spontaneous reporting, and clinical trial will be covered. At the end of the electives the student should be able to:</p> <ol style="list-style-type: none"> 1. Identify and evaluate ADR for seriousness, causality, expectedness of an ADR presence of drug interaction. 2. To report an ADR case: filling up of Suspected ADR reporting form and uploading the same on Vigiflow (under supervision). 3. Understand and explain various terminology and processes in ADR reporting including adverse event following immunization (AEFI), hemovigilance and materiovigilance. <p>Explain the drug safety regulatory processes and requirements as academician (spontaneous reporting) and as investigator (clinical trial).</p>
Number of students that can be accommodate in this elective	15
Learning resources for students	<ul style="list-style-type: none"> • Training material developed by the Department • Training material on WHO UMC website • Standard Textbooks of Pharmacology • Books related to Adverse Drug Reaction monitoring and reporting • Drug interaction checker software and textbooks

List of activities in which students will participate	<ol style="list-style-type: none"> 1. Identification of ADR cases and Suspected ADR form filling 2. Evaluation of ADR cases for seriousness and causality 3. Uploading a case on Vigiflow software under supervision 4. Evaluation drug safety literature and preparing ADR case report
Log book entries required	<ol style="list-style-type: none"> 1. Reflections and SDL activities 2. Suspected ADR reporting form filling for 5 cases 3. One ADR case report
Assessment	<ol style="list-style-type: none"> 1. Logbook assessment at the end of posting 2. Viva at the end of the posting

FORENSIC MEDICINE

Head of the Department: Dr. Rajesh Dere

Extension number: 3170

Name of the block	Block 1
Name of the elective	Postmortem examination
Location of hospital lab or research facility	Mortuary, Medical college hospital
Name of the internal preceptor (s)	Dr Rajesh C Dere
Name of the External preceptor	
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To enumerate the types of autopsies. 2. To enumerate the objectives of autopsies. 3. To enumerate legal requirements to conduct Autopsies. 4. To enumerate the various instruments required for performing autopsies. 5. To demonstrate external examination of dead body. 6. To demonstrate various incisions used for autopsy. 7. To demonstrate various autopsy techniques. 8. To demonstrate collection, preservation, packing, labeling and sealing of samples in autopsy cases. 9. To demonstrate various incisions used for autopsy. 10. To demonstrate various autopsy techniques. 11. To demonstrate collection, preservation, packing, labeling and sealing of samples in autopsy cases.
Number of students that can be accommodated in this elective	10
Prerequisites for the elective	Nil
List of activities in which the student will participate	<ol style="list-style-type: none"> 1, Observing and assisting Forensic doctors in conducting Autopsies. 2. Observing and assisting Forensic doctors in filling up Provisional cause of death certificates & Viscera forms) 3. Participate in department teaching activities.
Learning resources for the students	1. Forensic textbooks.

	2. Hospital Autopsy, Fundamental of Hospital Autopsy Practice. 3. Hospital Administration Manual of Maharashtra.
Portfolio entries required	Documentation of autopsies assisted.
Log book entry required	Completion of posting signed by preceptor.
Assessment	-Attendance, participation Attendance, in academic activities and presentation of autopsies assisted.
Other comments	

Name of the block	Block 1
Name of the elective	Documentation in Medical Practice
Location of hospital lab or research facility	Forensic Medicine & Toxicology
Name of the internal preceptor (s)	Dr Hemant G Kukde
Name of the External preceptor (if any)	
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To know about the medical records. 2. To know about the procedures of handling medical records. 3. Digitalization of medical record. 4. To know about the issues related with medical records.
Number of students that can be accommodated in this elective	10
Prerequisites for the elective	Nil
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Observing and assisting Forensic doctors in handling medicolegal records in Department. 2. Observing and assisting Forensic doctors in various procedures adopted for medicolegal record handling. 3. Participate in department activities.
Learning resources for the students	<ol style="list-style-type: none"> 1. Forensic textbooks. 2. Medical Record Manual, A WHO Guide for Developing Countries. 3. Medlegal yearbook. 4. Hospital administration manual of Maharashtra. 5. Electronic Health Records in India, GOI Guidelines 6. Medlegal yearbook. 7. Hospital administration manual of Maharashtra. 8. Electronic Health Records in India, GOI Guidelines
Portfolio entries required	Documentation of activities carried out.
Log book entry required	Completion of posting signed by preceptor.
Assessment	- attendance, participation attendance, participation in academic activities and evaluation by summative assessment.
Other comments	

Name of the block	Block 1
Name of the elective	Examination In Medicolegal Cases
Location of hospital lab or research facility	Forensic Medicine & Toxicology
Name of the internal preceptor (s)	Dr Sachin S. Patil
Name of the External preceptor (if any)	-
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To know about medicolegal cases and non-medicolegal cases. 2. To know about legal requirement for conducting medicolegal examination 3. To know about procedure adopted for examination 4. To demonstrate examination procedure in medicolegal cases. 5. To demonstrate collection, preservation, packing, labeling and sealing of medicolegal samples.
Number of students that can be accommodated in this elective	10
Prerequisites for the elective	Nil
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Observing and assisting Forensic doctors in handling medicolegal records in Department. 2. Observing and assisting Forensic doctors in various procedures adopted for medicolegal record handling. 3. Participate in department activities.
Learning resources for the students	<ol style="list-style-type: none"> 1. Forensic Textbooks, 2. Clinical Forensic Medicine, A Physician Guide. 3. POSCO Act. 4. Indian Penal Code. 5. Criminal Procedure Code
Portfolio entries required	Documentation of assisted medicolegal cases.
Log book entry required	Completion of posting signed by preceptor.
Assessment	- attendance, participation in academic activities and presentation of cases assisted.
Other comments	

Name of the block	Block 1
Name of the elective	Collection and Preservation of Medicolegal Evidences in Medical Profession.
Location of hospital lab or research facility	Forensic Medicine & Toxicology
Name of the internal preceptor (s)	Dr. N. B. Kumar
Name of the External preceptor (if any)	-
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To know the procedure of collection of samples. 2. To know various methods for preservation of samples. 3. To know the procedure for dispatch of samples to police for further analysis. 4. To know regarding chain of custody. 5. To demonstrate collection, preservation and sealing of samples.
Number of students that can be accommodated in this elective	10
Prerequisites for the elective	Nil
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Observing and assisting Forensic doctors in collection, packing, labeling, sealing and handing over the samples to Police. 2. Participate in department teaching activities.
Learning resources for the students	Forensic Textbooks, Hospital Administration Manual of Maharashtra.
Portfolio entries required	Documentation of activities carried out.
Log book entry required	Completion of posting signed by preceptor.
Assessment	<ul style="list-style-type: none"> -Attendance, participation in academic activities -Demonstration of procedures involved in sample collection.
Other comments	

PREVENTIVE & SOCIAL MEDICINE
 Head of the Department: Dr. Seema Bansode
 Extension number: 3123

Name of the block	Block 1
Name of the elective	Preventive diabetology at Community clinic: Urban Health Training Centre: Adult OPD, Dept. of Community Medicine
Location of hospital lab or research facility	UHTC, Dharavi
Name of the internal preceptor (s)	Dr Vijaykumar Singh
Name of the External preceptor (if any)	Ambika Yoga Kutir, Wadala Branch
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To provide primary care to known cases of Diabetes mellitus patients with special emphasis on “Lifestyle modification” in a resource limited setting under supervision 2. To function as a member of a health care team in Adult OPD in an UHTC 3. To participate in health outreach activities of field practice area of an UHTC
Number of students that can be accommodated in this elective	6
Prerequisites for the elective	Required immunizations to be taken, BSL (Bio-Safety Level), Pathophysiology of DM, Treatment protocol of MCGM DM clinics
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Opportunistic Screening to identify the undiagnosed DM at UHTC-OPD 2. Provide patient care under supervision of the internal preceptor at UHTC-OPD and out-reach level in field practice area 3. Timely referral to specialty and super-specialty OPDs and Follow Up 4. Counselling patient on self- care in DM (in Hindi/Marathi/English or their own language with the help of a Community Health Volunteer of local Health Post of MCGM) including

	<ul style="list-style-type: none"> -explaining the nature and treatment modality of DM -Lifestyle modifications needed especially diet and exercise - care of eyes, feet - avoiding complications - role of patient and family in managing DM - Yogic Management of DM
Learning resources for the students	<ul style="list-style-type: none"> -Treatment protocol of MCGM DM clinics -Dietary Guidelines for Indians by National Institute of Nutrition, ICMR, Hyderabad, India -ICMR Guidelines for management of Type 2 Diabetes, 2018 -Integration of AYUSH (Ayurveda) with National Programme for Prevention and Control of Cancer, Diabetes, Cardiovascular Diseases and Stroke (NPCDCS)
Portfolio entries required	<ul style="list-style-type: none"> -Case records of at least four patients - Record of Patient Counselling sessions of the recorded cases at OPD and community level (Home visit) - Ensuring individual dietary plan by dietician of LTMGH, Sion and to put it on record -organizing group Yoga sessions as a part of holistic approach
Log book entry required	Satisfactory completion of posting by preceptor
Assessment	<ul style="list-style-type: none"> -Attendance -Successful verification of required portfolio entries -successful completion of the posting as certified in the log book with a “meets expectation ‘M’ grade”
Other comments	<p>This elective posting will give an opportunity to a medical UG student</p> <ul style="list-style-type: none"> -to learn clinico-epidemiological skills -observe implementation of National Program for Prevention and Control of Cancer, Diabetes, Cardiovascular Diseases and Stroke (NPCDCS), 2010 by Govt of India.

Name of Block	Block 1
Name of Elective	International health regulations and yellow fever vaccination
Location of hospital, lab or research facility	<ol style="list-style-type: none"> 1. GSMC & KEM Hospital, Parel 2. Sr.JJ Hospital,Byculla 3. National Institute of Public Health Training & Research, Khetwadi, Girgaon, Mumbai-04.
Name of internal preceptors	Dr Seema S Bansode
Name of external preceptor (if any)	I/C of the Vaccine Centre
Learning objectives of the elective	<p>Phase II student in Community Medicine should be able to: - Choose vaccination as a preventive method in areas where there is evidence of persistent or periodic yellow fever virus transmission with potential risk of international spread</p> <ol style="list-style-type: none"> 1. Discuss and Counsel indications of immunization in different epidemiological situations peculiar to the travelers 2. Describe the required vaccines, dose, route, schedule, risks, benefits and side effects, indications and contraindications 3. Demonstrate the correct administration of different vaccines 4. Define cold chain and discuss the methods of safe storage and handling of vaccines 5. Practice Infection control measures and appropriate handling of the sharps
Number of students that can be accommodated in this elective	6
Prerequisites for the elective	<ol style="list-style-type: none"> 1)Govt. of India (2008), Immunization Handbook/or Medical Officers, Ministry of Health and Family Welfare, New Delhi. 2)WHO (2006), International travel and Health 2006 3) WHO (1982). Vaccination Certificate Requirements for International Travel and Health Advice to Travelers.

Learning resources for students	World Health Organization; Department of Immunization, Vaccines, Biologicals CH-1211 Geneva Switzerland www.who.int/vaccines-documents/
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Checks the Vial Viability Marker 2. The required amount of diluents mixed in the vial with 5ml disposable plastic syringe. 3. All the bio-medical waste are segregated and collected/disposed in the respective bags at the time of procedure only as per biomedical waste rules. 4. The water swab is used to clean the inoculation area. 5. The vaccination dose i.e. 0.5ml for everybody is inoculated to the vaccinee with 1ml disposable/AD plastic syringe. 6. After inoculation the vaccinees are asked to wait for 30 minutes and inform then & there any side effects / adverse reactions to doctor on duty.
Portfolio entries required	Daily log of patients seen and activities participated At least 04 fully worked up patients to be documented
Log book entry required	Satisfactory completion of posting by external preceptor co-signed by institutional preceptor, adequate participation in activities, along with 75 % attendance minimum.
Assessment	Attendance / Successful verification of required portfolio entries, Successful completion of the posting as certified in the log book h "meets expectation 'M' grade" whic
Other comments	
Name and signature of Head of the Department	

ANAESTHESIOLOGY

Head of the Department: Dr. Anila Malde

Extension number: 3262/3258

Name of Block	2
Name of Elective	Anaesthesiology
Location of hospital Lab or research facility	Operation theatres in Lokmanya Tilak Municipal Medical College and Hospital
Name of Internal preceptor(s)	1] Dr Anila Malde 2] Dr Shalaka Nellore 3] Dr Shailendra Modak 4] Dr Deepti Kotwani
Name of external preceptor if applicable	-
Learning objectives of elective	<ol style="list-style-type: none"> 1. To understand the concept of the anaesthesia 2. To understand the components of anaesthesia (analgesia, amnesia, areflexia, unconsciousness etc.) 3. To learn the types of anaesthesia i.e., balanced general anaesthesia, regional anaesthesia and monitored anaesthesia care. 4. To acquire basic knowledge and skills of various steps: Preoperative evaluation, risk stratification, preparation, induction, maintenance, airway management, monitoring, vascular access, maintenance of body physiology, record keeping 5. To describe the steps of general anaesthesia, regional anaesthesia, triple maneuver airway management and intravenous cannula insertion. 6. To describe the modes of oxygen therapy 7. Awareness of the scope of an anaesthesiologist as a perioperative physician, intensivist, role in pain management, resuscitation and as an administrator in designing the operation theatre. 8. Exposure to dynamic decision making and skilled crisis management in anaesthesia
Number of students that can be accommodated in this elective	10
Prerequisites for elective	Students should have an understanding of the pharmacology of the drugs used in anaesthesia and basic physiology.

	They should have taken basic immunization.
List of activities of student's participation	<ol style="list-style-type: none"> 1. To observe and participate the steps of anaesthesia for patients posted for elective surgeries ; <ol style="list-style-type: none"> a) Pre-anaesthetic evaluation b) Pre-operate counseling of patients and informed consent c) Preparation of the anaesthesia equipments as per the case d) Pre-medication, induction & maintenance of anaesthesia and recovery 2 To assist the conduct of general/regional anaesthesia and monitored anaesthetic care in a supervised manner. 3 To monitor heart rate, blood pressure, oxygen saturation, respiratory rate, temperature and end tidal carbondioxide of the patient under supervision of a qualified anaesthesiologist. 4 To participate in the post operative recovery rounds.
Learning Resources	<ol style="list-style-type: none"> 1] Clinical Anaesthesiology by Morgan & Mikhail 2] Pharmacology and physiology in anesthetic practice- Stoelting 3]Understanding anaesthesia equipments & procedures- Baheti and Laheri
Portfolio entries required	<ul style="list-style-type: none"> -Assignments provided -Number of procedures seen such as triple manoeuver, Intubation, Intravenous cannulation, subarachnoid and epidural blocks and peripheral blocks. -Documentation of self-directed learning as summary and reflection
Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"
Assessment	<p>Formative: Attendance: Day to day participation in the operation theatre during elective surgeries</p> <p>Describing the steps of</p> <ol style="list-style-type: none"> a) Pre-anaesthetic evaluation b) Pre-operate counseling of patients and informed consent c) Preparation of the anaesthesia equipment as per the case d) Pre-medication, induction & maintenance of anaesthesia and recovery

	<p>Describing the steps of the procedures attended</p> <ul style="list-style-type: none">a) Triple maneuver and intubationb) Intravenous access-peripheral and centralc) Peripheral blocksd) Central neuraxial blocks <p>Describe in ten sentences</p> <ul style="list-style-type: none">a) Concept of balanced general anaesthesiab) Concept of Central neuraxial block <p>Performance of assigned task</p>
Other comments	Students will be rotated amongst various operation theatres to get the exposure of general anaesthesia, regional anaesthesia and monitored anaesthetic care.

Name of Block	2
Name of Elective	Assessment and management in trauma ICU
Location of hospital, lab, research facility	Trauma ICU, Lokmanya Tilak Municipal Medical college, and General Hospital.
Name of Internal Preceptors	Dr H. Karnik Dr D. Thakare
Name of External Preceptors (if any)	-
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To be able to manage airway and oxygen therapy 2. To be able to resuscitate a patient from hypovolemic shock 3. To be able to Cardio-Pulmonary Resuscitation in case of cardiac arrest 4. To know massive transfusion protocols 5. To be able to monitor adequacy of Resuscitation
The number of students that can be accommodated in this elective	10
Prerequisites of the elective	Minimum 4 hours of working per day in Trauma ICU for 4 weeks
Learning resources for students	ACLS – 2020 ATLS Guidelines in ATLS 10th Edition Student Manual
List of activities in which students will participate	<p>A. Manikin Training –</p> <ol style="list-style-type: none"> 1. External Cardiac Massage 2. Bag – Mask Ventilation 3. Endotracheal Intubation 4. Arrhythmias Identification & Defibrillation 5. Intravenous Access <p>B. Theory/ Clinical activities</p> <ol style="list-style-type: none"> 1. Oxygen therapy – Indications & Various methods 2. Airway management – Basic & Advanced. Identifying difficult airway 3. Identifying respiratory adequacy & need for ventilatory support 4. Basics of Mechanical Ventilation

	<ol style="list-style-type: none"> 5. Intravenous access – peripheral and care. Sites for Central venous access 6. Know various intravenous fluids for volume resuscitation 7. Identification of Hypovolemia and fluid management 8. Role of vasoactive drugs in resuscitation 9. Cardiac arrest – Identification & Management 10. Measurement of acute blood loss and management 11. Massive blood transfusion protocols 12. Monitoring of adequacy of resuscitation – <ol style="list-style-type: none"> a. Hemodynamic monitoring b. Monitoring of microcirculation
Portfolio entries required Logbook	<ol style="list-style-type: none"> a. All types of Manikin Training b. Theory class attended c. Resuscitation witnessed d. Cardiac arrest management attended e. ICU monitoring attended f. Assignments and Logbook entry
Logbook entry required	Satisfactory completion of posting with remarks by a preceptor
Assessment	Attendance Participation in case management and team activities Presentation of worked up cases, documentation of attendance, required portfolio and logbook entries.
Other comments	

Name of Block	2
Name of Elective	Airway Management
Location of hospital Lab or research facility	Anaesthesia Dept, College Building and Operation theatres of LTMGH, SOTRR/ E Wd
Name of Internal preceptor(s)	Dr. Kanchan Rupawate Dr. Urvi Desai Dr. Surita Mandhyan
Name of external preceptor if applicable	-
Learning objectives of elective	<ol style="list-style-type: none"> 1. Assessment of airway and identification of anticipated difficult airway 2. Introduction to airway gadgets 3. Airway management in routine, emergency, ICU patients & Trauma patients 4. Hands on training on manikins <ol style="list-style-type: none"> A) Mask holding B) Bag mask Ventilation C) Airway/ Supraglottic Airway insertion D) Steps of intubation E) Oxygen Therapy
Number of students that can be accommodated in this elective	2
Prerequisites for elective	Knowledge about Airway anatomy essential Immunization
List of activities of student's participation	<ol style="list-style-type: none"> 1. Participate in preoperative airway assessment 2. Participate in afternoon teaching sessions on manikins in the department 3. Observe and assist airway management in OT/ ICU
Learning Resources	Airway Management by Rashid Khan 6th Edition Anaesthesiology by David Longnecker Anaesthesia Management

Portfolio entries required	1 Present at least 5 cases of anticipated difficult airway 2. Assignments allocated eg use of devices & description
Log book entry required	Maintain log book about airway assessment Meets the expectations of preceptors. M Grade
Assessment	Attendance Formative: Participation in OT/ ICU & manikin workshops Documentation of attendance and required portfolio and log book entries
Other comments	Nil

Name of Block	2
Name of Elective	Anaesthesia Chronic pain management
Location of hospital Lab or research facility	LTMMC OPD 10, Pain OT- 3 rd floor hospital building
Name of Internal preceptor(s)	Dr. Nilam Virkar Dr. Preeti Rustagi
Name of external preceptor if applicable	-
Learning objectives of elective	<ol style="list-style-type: none"> 1. To know different types of chronic pain, their pathophysiology, and pain pathway. 2. To take history and carry examination of patients with chronic pain in a supervised manner. 3. To understand the measurement and assessment of pain 4. To know most commonly used medication in chronic pain management and their side effects 5. To know the principle and role of physiotherapy and occupational therapy in chronic pain. 6. To function effectively as a team member in assisting the procedures done in the opd and pain OT for the treatment of chronic pain. 7. To understand the importance of patient education, counseling, and effective communication regarding patient's condition and treatment options.
Number of students that can be accommodated in this elective	2
Prerequisites for elective	Basic life support training
List of activities of student's participation	<ol style="list-style-type: none"> 1. Participate in patient assessment during opd days. 2. Assist in opd procedures and procedures carried out in pain ot. 3. Participate in teaching sessions of the department. 4. Participate in education and counseling of patient to deal with chronic pain. 5. Present at least 2 cases that are worked up in the teaching session.

Learning Resources	Handbook of pain management by G. P. Dureja Clinical methods in pain medicine by G. Das
Portfolio entries required	Assignments provided Two worked up case records that have been presented Documentation of self-directed learning as summary and reflection
Log book entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	Attendance Formative: Participation in OPD & OT and team activities, Presentation of worked up cases, Documentation of attendance and required portfolio and log book entries
Other comments	

Name of Block	2
Name of Elective	Postsurgical Intensive Care Unit
Location of hospital Lab or research facility	PACU and SICU, Hospital Building, Third floor
Name of Internal preceptor(s)	Dr. Aparna Nerurkar Dr. Deepali Thakur Dr. Ruchi Jain
Name of external preceptor if applicable	-
Learning objectives of elective	<ol style="list-style-type: none"> 1. To provide care for postoperative patients in the PACU in a supervised manner. 2. To have orientation about basics of acute pain management 3. Monitoring of patients in PACU 4. Knowledge about basic procedures required in ICU, common complications in PACU, monitoring to identify those complications and their management including airway management, oxygen therapy, intravenous access
Number of students that can be accommodated in this elective	2
Prerequisites for elective	Immunization
List of activities of student's participation	<ol style="list-style-type: none"> 1. Participate in postoperative ICU rounds, case discussions and record keeping 2. Present at least two cases that are worked up in the teaching session and present stepwise description of two procedures 3. Communication & counselling of relatives 4. Participate in patient monitoring 5. Assist in various procedures like care of endotracheal tube, peripheral IV cannulation, blood sampling, tracheostomy, ventilatory care

Learning Resources	ICU Book Paul Marino
Portfolio entries required	Assignments provided Two worked up case records that have been presented Documentation of self-directed learning as summary and reflection
Log book entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	Attendance Formative: Participation in OP & IP rounds and team activities, Presentation of worked up cases, Documentation of attendance and required portfolio and log book entries
Other comments	

CARDIOLOGY

Head of the Department: Dr. Pratap Nathani

Extension number: 3806

Name of Block	2
Name of Elective	Cardiology, The ECG – Basics and Beyond
Location of hospital Lab or research facility	L.T.M.M.C & L.T.M.G.H, Cardiology Department.
Name of Internal preceptor(s)	Dr. P. J. Nathani, Dr. Milind Phadake, Dr Pooja Mankame, Dr Siddhant Yadav
Name of external preceptor if applicable	-
Learning objectives of elective	<ol style="list-style-type: none"> 1. To understand the genesis of the ECG and the physiology involved in the same 2. To analyze the components of an ECG tracing 3. To identify common abnormalities that are likely to be encountered in day-to-day practice: Arrhythmias, chamber enlargement and hypertrophy, myocardial ischemia, bundle branch blocks and hemiblocks, effect of drugs and metabolic disorders on the ECG 4. To correlate ECG findings with the clinical profile of the patient, and understand what role the ECG plays in the diagnostic algorithm and management plan
Number of students that can be accommodated in this elective	10
Prerequisites for elective	<ol style="list-style-type: none"> 1. Knowledge of cardiac physiology taught at the 1st year MBBS level, which includes action potentials, the cardiac conducting system, and the cardiac cycle

	<ol style="list-style-type: none"> 2. Knowledge about the pathology of common cardiac disorders, which is taught in IInd year MBBS.
List of activities of student's participation	<ol style="list-style-type: none"> 1. Participate in indoor patient rounds, attend OPDs, work as observers in the ICCU, where they will learn practical applications of the ECG 2. Participate in twice weekly teaching lessons in department. 3. Present seminars on ECG. 4. Interpret at least 10 ECGs daily and get the interpretation checked from the faculty members. In the 4 week posting, the students are expected to have interpreted, under supervision, at least 200 ECGs and recorded their interpretations in writing.
Learning Resources	<ol style="list-style-type: none"> 1. ECG bank of Department of cardiology 2. Daily ECGs taken in ICCU and Cardiac wards. 3. Didactic Lectures taken by the Faculty 4. Books on General Cardiology and ECG from the Department of Cardiology
Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of self-directed learning as summary and reflection 2. Seminars presented in department.
Log book entry required	Maintain log book about airway assessment Meets the expectations of preceptors. M Grade
Assessment	<ol style="list-style-type: none"> 1. Attendance 2. Participation in OP and IP rounds. 3. Presentation of seminars. 4. Knowledge of cardiac physiology, normal ECG and ECG findings in common cardiac conditions.

Name of Block	2
Name of Elective	Cardiology, Basics of Echocardiography
Location of hospital Lab or research facility	L.T.M.M.C & L.T.M.G.H, Cardiology Department.
Name of Internal preceptor(s)	Dr. P. J. Nathani, Dr. Milind Phadake, Dr Pooja Mankame, Dr. Siddhant Yadav
Name of external preceptor if applicable	-
Learning objectives of elective	<ol style="list-style-type: none"> 1. Principles of cardiovascular ultrasound. 2. To learn how echocardiographic images are acquired 3. To understand what constitutes a normal echocardiographic study 4. Common echocardiographic abnormalities – recognition and correlation with clinical findings and other investigations e.g. IHD, chamber enlargement and hypertrophy, common valvular conditions, intracardiac shunts
Number of students that can be accommodated in this elective	10
Prerequisites for elective	<ol style="list-style-type: none"> 1. Knowledge of cardiac physiology taught at the 1st year MBBS level. 2. Knowledge of cardiac anatomy taught at the 1st year MBBS level. 3. Knowledge about the pathology of common cardiac disorders, which is taught in 2nd year MBBS

List of activities of student's participation	<ol style="list-style-type: none"> 1. Participate in ICCU rounds and to observe 2D echocardiogram performed and with its clinical correlation. 2. To take brief history and perform clinical cardiac evaluation of patients attending 2D echo room. 3. To observe 2D echocardiogram performed in ICCU and 2D echo room with its clinical correlation. 4. Present seminars on 2D echocardiography. 5. Participate in twice weekly teaching lessons in department. 6. In the 4 week posting, the students are expected to have interpreted, observed under supervision, at least 100 2D echocardiograms to perform at least 10 echocardiograms.
Learning Resources	<ol style="list-style-type: none"> 1. ECG bank of Department of cardiology 2. Daily ECGs taken in ICCU and Cardiac wards. 3. Didactic Lectures taken by the Faculty 4. Books on General Cardiology and ECG from the Department of Cardiology
Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of self-directed learning as summary and reflection 2. Seminars presented in department.
Log book entry required	<p>Maintain log book about airway assessment Meets the expectations of preceptors. M Grade</p>
Assessment	<ol style="list-style-type: none"> 1. Attendance 2. Participation in OP and IP rounds. 3. Presentation of seminars. 4. Knowledge of cardiac physiology, normal 2D Echo and 2D Echo findings in common cardiac conditions

CARDIO-VASCULAR-THORACIC SURGERY

Head of the Department: Dr. Jayant Khandekar

Extension number: 3097

Name of Block	2
Name of Elective	Basics of Cardiac Surgery
Location of hospital Lab or research facility	CVTS OT, Casualty building, 2 nd Floor, LTMGH, Sion
Name of Internal preceptor(s)	Dr J V Khandekar, Dr Prashant Mishra
Name of external preceptor if applicable	-
Learning objectives of elective	<ol style="list-style-type: none"> 1. History of Cardiac Surgery 2. Introduction to Heart Lung Machine 3. Basic steps of open-heart surgery 4. List of cardiac surgeries 5. Recent advances in cardiac surgery in brief
Number of students that can be accommodated in this elective	4
Prerequisites for elective	<ol style="list-style-type: none"> 1. Must know the cardiac anatomy and physiology 2. Clinical knowledge of adult and pediatric heart diseases
List of activities of student's participation	<ol style="list-style-type: none"> 1. Observing open heart surgery 2. Post operative management of cardiac surgery patients 3. Seminar presentation
Learning Resources	<ol style="list-style-type: none"> 1. Cardiac Surgery; Kirklin/Barratt-Boyes, 4th edition 2. Cardiopulmonary Bypass, Principles and Practice; Glenn Gravlee, 4th edition
Portfolio entries required	<ol style="list-style-type: none"> 1. List of cardiac surgeries observed 2. List of seminars attended/presented
Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"
Assessment	Attendance Formative Successful verification of required portfolio entries
Other comments	-

Name of Block	2
Name of Elective	Basics of Vascular Surgery
Location of hospital Lab or research facility	CVTS OT, Casualty building, 2 nd Floor, LTMGH, Sion
Name of Internal preceptor(s)	Dr J V Khandekar, Dr Prashant Mishra
Name of external preceptor if applicable	-
Learning objectives of elective	<ol style="list-style-type: none"> 1. History of Vascular Surgery 2. Introduction to vascular anastomosis 3. Introduction to intervention vascular radiology 4. Post-operative vascular outcomes
Number of students that can be accommodated in this elective	4
Prerequisites for elective	<ol style="list-style-type: none"> 1. Must know the peripheral circulation anatomy 2. Knowledge of peripheral vascular diseases
List of activities of student's participation	<ol style="list-style-type: none"> 1. Observing open heart surgery 2. Post operative management of cardiac surgery patients 3. Seminar presentation
Learning Resources	1. Rutherford's Vascular Surgery and Endovascular Surgery 9 th edition
Portfolio entries required	<ol style="list-style-type: none"> 1. List of vascular surgery observed 2. List of seminars attended/presented
Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"
Assessment	Attendance Formative Successful verification of required portfolio entries
Other comments	-

DERMATOLOGY

Head of the Department: Dr. Rachita Dhurat

Extension number: 3671

Name of Block	2
Name of Elective	Dermatology
Location of hospital Lab or research facility	OPD 16, 2 nd floor, OPD building
Name of Internal preceptor(s)	Dr. Mithali M Jage Dr. Saba Ansari
Name of external preceptor if applicable	-
Learning objectives of elective	<ol style="list-style-type: none"> 1. Theory topic - Hair (Anatomy of hair follicle, physiology of hair cycle, Hair disorders) 2. Dermatology procedures (Skin biopsy, nail clippings, skin scrapings, Intralesional steroids, hair mount preparation)
Number of students that can be accommodated in this elective	5
Prerequisites for elective	-
List of activities of student's participation	<ol style="list-style-type: none"> 1. Participate in indoor patient rounds. 2. Observe patient management in OPD 3. Present at least 2 cases that are worked up in the teaching session.
Learning Resources	<ol style="list-style-type: none"> 1. Skin disease and sexually transmitted infection with MCQs by Dr Uday Khopkar 2. For further reference – Andrew's Diseases of the skin clinical dermatology
Portfolio entries required	Assignments provided Two worked up case records that have been presented Documentation of self-directed learning as summary and reflection
Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"
Assessment	Attendance Formative: Participation in OP & IP rounds and team activities, Presentation of worked up cases, Documentation of attendance and required portfolio and log book entries
Other comments	-

EAR,NOSE,THROAT-HEAD AND NECK SURGERY

58

Head of the Department: Dr. Renuka Bradoo

Extension number: 3269

Name of Block	Block 2
Name of Elective	Otology
Location of hospital, lab or research facility	Department of ENT, LTMGH
Name of internal preceptors	Dr. Renuka Bradoo, Dr.Anagha Joshi, Dr Kshitij Shah
Name of external preceptor (if any)	NA
Learning objectives of the elective	To orient UG students to the scope and expand their horizons about the subject of otology.
Number of students that can be accommodated in this elective	4
Prerequisites for the elective	Must have completed clinical rotations in ENT surgery satisfactorily and done the compulsory rotational internship program in ENT
Learning resources for students	Clinical exposure in ENT OPD, ward & ENT OT Textbook of ENT by Dhingra Scott Brown's Otorhinolaryngology, Head & Neck surgery
List of activities in which the student will participate	The student will get to understand the basic anatomy and physiology of ear. They will get to see the basic otological procedures of myringoplasty, tympanoplasty and mastoidectomy. They will get exposed to advanced ontological procedures like stapedotomy, Facial nerve decompression, cochlear implant, Glomus tumour excision, etc. Student will be offered a chance to actively assist certain otology surgeries.
Portfolio entries required	Documentation of self-directed learning as summary and reflection
Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"
Assessment	Clinical viva voce assessment at the end of the rotation
Comments	The exposure that the UG students experience is about 10% of the scope in our branch. It is necessary for the students to get insight about the recent advancements in the scope of ENT

Name of Block	Block 2
Name of Elective	Rhinology and skull base
Location of hospital, lab or research facility	Department of ENT, LTMGH
Name of internal preceptors	Dr. Renuka Bradoo, Dr. Anagha Joshi, Dr Kshitij Shah
Name of external preceptor (if any)	NA
Learning objectives of the elective	To orient UG students to the scope and expand their horizons about the subject of rhinology and skull base.
Number of students that can be accommodated in this elective	4
Prerequisites for the elective	Must have completed clinical rotations in ENT surgery satisfactorily and done the compulsory rotational internship program in ENT
Learning resources for students	Clinical exposure in ENT OPD, ward & ENT OT Textbook of ENT by Dhingra Scott Brown's Otorhinolaryngology, Head & Neck surgery
List of activities in which the student will participate	The student will get to understand the basic anatomy and physiology of nose. They will get to see the basic endonasal procedures of septoplasty, FESS. They will get exposed to learning advanced skull base surgeries like angiofibroma excision, CSF leak repair, optic nerve decompression and pituitary surgeries. Student will be offered a chance to actively assist certain rhinology surgeries.
Portfolio entries required	Documentation of self-directed learning as summary and reflection
Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"
Assessment	Clinical viva voce assessment at the end of the rotation
Comments	The exposure that the UG students experience is about 10% of the scope in our branch. It is necessary for the students to get insight about the recent advancements in the scope of ENT

Name of Block	Block 2
Name of Elective	Head and Neck surgery
Location of hospital, lab or research facility	Department of ENT, LTMGH
Name of internal preceptors	Dr Kshitij Shah, Dr Shivali Patekar, Dr Gopi shankar
Name of external preceptor (if any)	NA
Learning objectives of the elective	To orient UG students to the scope and expand their horizons about the subject of Head and Neck surgery.
Number of students that can be accommodated in this elective	4
Prerequisites for the elective	Must have completed clinical rotations in ENT surgery satisfactorily and done the compulsory rotational internship program in ENT
Learning resources for students	Clinical exposure in ENT OPD, ward & ENT OT Textbook of ENT by Dhingra Scott Brown's Otorhinolaryngology, Head & Neck surgery
List of activities in which the student will participate	The student will get to understand the basic anatomy of the Head and Neck. They will get to see the basic procedures of Tonsillectomy, Incision and drainage of deep neck abscesses. They will get exposed to learning advanced surgeries like Thyroidectomy, Parotidectomy, Wide local excisions of oral cavity malignancies and Neck dissection. Student will be offered a chance to actively assist certain surgeries
Portfolio entries required	Documentation of self-directed learning as summary and reflection
Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"
Assessment	Clinical viva voce assessment at the end of the rotation
Comments	The exposure that the UG students experience is about 10% of the scope in our branch. It is necessary for the students to get insight about the recent advancements in the scope of ENT

Name of Block	Block 2
Name of Elective	Laryngology
Location of hospital, lab or research facility	Department of ENT, LTMGH
Name of internal preceptors	Dr Anagha Joshi, Dr Gopishankar
Name of external preceptor (if any)	NA
Learning objectives of the elective	To orient UG students to the scope and expand their horizons about the subject of Head and Neck surgery.
Number of students that can be accommodated in this elective	4
Prerequisites for the elective	Must have completed clinical rotations in ENT surgery satisfactorily and done the compulsory rotational internship program in ENT
Learning resources for students	Clinical exposure in ENT OPD, ward & ENT OT Textbook of ENT by Dhingra Scott Brown's Otorhinolaryngology, Head & Neck surgery
List of activities in which the student will participate	The student will get to understand the basic anatomy of larynx and the physiology of voice. They will get to see the basic procedures of Microlaryngoscopy surgeries for vocal cord lesions. They will get exposed to learning advanced surgeries like Laryngectomy, Thyroplasty, etc. Student will be offered a chance to actively assist certain surgeries.
Portfolio entries required	Documentation of self-directed learning as summary and reflection
Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"
Assessment	Clinical viva voce assessment at the end of the rotation
Comments	The exposure that the UG students experience is about 10% of the scope in our branch. It is necessary for the students to get insight about the recent advancements in the scope of ENT

GASTROENTEROLOGY

Head of the Department: Dr. Meghraj Ingale

Extension number: 3077/3088

Name of Block	Block 2
Name of Elective	Introduction to hepatology
Location of hospital, lab or research facility	Department of gastroenterology, LTMGH
Name of internal preceptors	Dr. Meghraj Ingale
Name of external preceptor (if any)	NA
Learning objectives of the elective	<ol style="list-style-type: none"> 1. An introduction to the field of hepatology 2. Overview of various diseases in hepatology and their management
Number of students that can be accommodated in this elective	1
Prerequisites for the elective	3 rd year MBBS and above
Learning resources for students	Sheila Sherlocks textbook of hepatology
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Attending Liver clinic & ward rounds with senior residents 2. Assisting in various endoscopic procedures like variceal banding, glue injection, diagnostic OGD scopy 3. To learn the workup for liver transplant
Portfolio entries required	Documentation of self-directed learning as summary and reflection
Log book entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	<p>Attendance</p> <p>Formative: Identification of various instruments used in endoscopy</p>

Name of Block	Block 2
Name of Elective	Introduction to gastroenterology
Location of hospital, lab or research facility	Department of gastroenterology, LTMGH
Name of internal preceptors	Dr. Meghraj Ingale
Name of external preceptor (if any)	NA
Learning objectives of the elective	<ol style="list-style-type: none"> 1. An introduction to the field of gastroenterology 2. Overview of various endoscopic procedures
Number of students that can be accommodated in this elective	1
Prerequisites for the elective	3 rd year MBBS and above
Learning resources for students	Practical Gastrointestinal Endoscopy-the Fundamentals by Peter Cotton
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Observation of endoscopic procedures, assisting in various endoscopic procedures like biopsy taking. 2. Performing rapid urease test 3. Attending OPD and ward rounds with senior residents 4. Class on various endoscopy instruments
Portfolio entries required	Documentation of self-directed learning as summary and reflection
Log book entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	Attendance Formative: Identification of various instruments used in endoscopy

MEDICINE

Head of the Department: Dr. Karnik N.D.

Extension number: 3076

Name of Block	Block 2
Name of Elective	Intensive Care Unit (ICU)
Location of hospital, lab or research facility	MICU, LTMGH
Name of internal preceptors	Dr. Trupti Trivedi, Dr. N.D. Karnik
Name of external preceptor (if any)	NA
Learning objectives of the elective	<ol style="list-style-type: none"> 1. Demographics of the patients 2. Risk factors of diseases presenting in the MICU 3. Pattern of various diseases presenting in the MICU 4. Investigations (Routine and special) 5. ICU management of various critically ill patients 6. Counselling relatives for poor prognosis of patients in ICU
Number of students that can be accommodated in this elective	5
Prerequisites for the elective	Baseline understanding of critical care medicine
Learning resources for students	<ol style="list-style-type: none"> 1. Harrison's text book of Internal Medicine 2. The ICU book- Paul Maurinho 3. Hutchison's clinical methods 4. Physical diagnosis- A textbook of symptoms and signs by Vakil Golwala 5. Videos, online articles 6. Patient interaction
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. History taking skills from informant of patients 2. Clinical examination 3. Procedural skills- IV insertion, nasogastric tube insertion, urinary catheter insertion. 4. Observation of emergency/elective intubation, defibrillation, CPR, central line insertion, ventilator management. 5. Interpretation of Electrocardiogram, arterial blood gases. 6. Counseling skills

Portfolio entries required	Documentation of self-directed learning as summary and reflection
Log book entry required	case record of patients, procedures.
Assessment	<ol style="list-style-type: none">1. Case presentation2. Viva voce3. Procedural skills-4. Log book assessment5. Attendance

Name of Block	Block 2
Name of Elective	Nephrology
Location of hospital, lab or research facility	AKD ward, Dialysis unit, AKD rounds, LTMGH
Name of internal preceptors	Dr. Mayuri Trivedi
Name of external preceptor (if any)	NA
Learning objectives of the elective	<ol style="list-style-type: none"> 1. Demographics of the patients 2. Risk factors of renal diseases 3. Pattern of various renal diseases 4. Investigations (Routine and special) 5. Learning the process and mechanism of Hemodialysis 6. Counselling relatives of patients with renal diseases and regarding renal transplant requirement
Number of students that can be accommodated in this elective	5
Prerequisites for the elective	Baseline understanding of nephrology
Learning resources for students	<ol style="list-style-type: none"> 1. Harrison's text book of Internal Medicine 2. The ICU book- Paul Maurinho 3. Hutchison's clinical methods 4. Physical diagnosis- A textbook of symptoms and signs by Vakil Golwalla 5. Videos, online articles 6. Patient interaction
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. History taking skills 2. Clinical examination 3. Procedural skills- IV insertion, urinary catheter insertion, input-output charting. 4. Observation of Dialysis catheter insertion, patients on Hemodialysis 5. Interpretation of arterial blood gases, urine investigations. 6. Counselling skills
Portfolio entries required	Documentation of self-directed learning as summary and reflection
Log book entry required	case record of patients, procedures.
Assessment	<ol style="list-style-type: none"> 1. Case presentation 2. Viva voce 3. Procedural skills- 4. Log book assessment 5. Attendance

Name of Block	Block 2
Name of Elective	Neurology
Location of hospital, lab or research facility	Neurology OPD, ward rounds, neurology dept, EEG & EMG-NCV lab, Room no. 419, 4 th floor, OPD building., LTMGH
Name of internal preceptors	Dr. Harish Bharote, Dr. Dnyaneshwar Asole
Name of external preceptor (if any)	NA
Learning objectives of the elective	<ol style="list-style-type: none"> 1. Demographics of the patients 2. Risk factors of CNS diseases 3. Pattern of various Neurological diseases 4. Neurological examination in detail. 5. Investigations (Routine and special) 6. Counseling relatives of patients
Number of students that can be accommodated in this elective	5
Prerequisites for the elective	Baseline understanding of neurology
Learning resources for students	<ol style="list-style-type: none"> 1. Harrison's text book of Internal Medicine 2. Neurological Examination made easy by Geriant Fuller 3. Neurological Examination in Clinical Practice by Bickerstaff 4. Hutchison's clinical methods 5. Physical diagnosis- A textbook of symptoms and signs by Vakil Golwalla 6. Videos, online articles 7. Patient interaction 8. Observation of EEG, EMG.
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. History taking skills 2. Clinical neurological examination 3. Assessment of patients using- MMSE, FAB 4. Observation skills- EMG, EEG procedure and interpretation 5. CT and MRI- clinic radiological correlation 6. Counseling skills
Portfolio entries required	Documentation of self-directed learning as summary and reflection
Log book entry required	case record of patients, procedures.
Assessment	<ol style="list-style-type: none"> 1. Case presentation 2. Viva voce 3. Procedural skills- 4. Log book assessment 5. Attendance

Name of Block	Block 2
Name of Elective	Rheumatology
Location of hospital, lab or research facility	Rheumatology OPD and ward building, LTMGH
Name of internal preceptors	Dr. Yojana Gokhale, Dr. Lalana Kalekar, Dr. Amruta Digole
Name of external preceptor (if any)	NA
Learning objectives of the elective	<ol style="list-style-type: none"> 1. Demographics of the patients 2. Risk factors of rheumatologic diseases 3. Pattern of various rheumatologic diseases 4. Investigations (Routine and special) 5. Counseling relatives of patients with rheumatologic disease
Number of students that can be accommodated in this elective	5
Prerequisites for the elective	Baseline understanding of rheumatology
Learning resources for students	<ol style="list-style-type: none"> 1. Harrison's text book of Internal Medicine 2. Oxford Handbook of Internal Medicine 3. API textbook of medicine 4. Oxford manual of Rheumatology 5. Physical diagnosis- A textbook of symptoms and signs by Vakil Golwalla 6. Videos, online articles 7. Patient interaction
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. History taking skills 2. Clinical examination 3. Procedural skills-Schoeber's est, Chest expansion 4. Observation of joint tap, skin biopsy 5. Interpretation of blood investigations 6. Counseling skills
Portfolio entries required	Documentation of self-directed learning as summary and reflection
Log book entry required	case record of patients, procedures.
Assessment	<ol style="list-style-type: none"> 1. Case presentation 2. Viva voce 3. Procedural skills 4. Log book assessment & Attendance
Comments	--

Name of Block	Block 2
Name of Elective	Endocrinology
Location of hospital, lab or research facility	Endocrine OPD 6 (Fridays 1.30 pm), Medicine dept., LTMGH
Name of internal preceptors	Dr. Avesh Shingare, Dr. Sonal Thakur
Name of external preceptor (if any)	NA
Learning objectives of the elective	Learning objectives of the elective 1. Demographics of the patients 2. Risk factors of endocrine diseases 3. Pattern of various endocrine diseases 4. Investigations (Routine and special) 5. Counselling relatives of patients with endocrine diseases
Number of students that can be accommodated in this elective	5
Prerequisites for the elective	Baseline understanding of endocrinology
Learning resources for students	1. Harrison's text book of Internal Medicine 2. Oxford Handbook of Internal Medicine 3. API textbook of medicine 4. Hutchison's clinical methods 5. Williams textbook of endocrinology 6. Physical diagnosis- A textbook of symptoms and signs by Vakil Golwala 7. Videos, online articles 8. Patient interaction
List of activities in which the student will participate	1. History taking skills 2. Clinical examination 3. Procedural skills- 5 point HGT charting, anthropometry 4. Observation of insulin administration, management of endocrine emergencies 5. Interpretation of blood investigations 6. Counseling skills
Portfolio entries required	Documentation of self-directed learning as summary and reflection
Log book entry required	case record of patients, procedures.
Assessment	1. Case presentation 2. Viva voce 3. Procedural skills- 4. Log book assessment 5. Attendance

Name of Block	2
Name of Elective	Geriatrics
Location of Hospital lab or research facility	OPD and ward building
Name of internal preceptors	Dr. Sangeeta Pednekar, Dr. Dharmendra, residents of Dr. Pednekar unit
Name of external preceptor (if any)-	Nil
Learning objectives of the elective	<ol style="list-style-type: none"> 1. Demographics of the patients 2. Risk factors of Geriatric diseases 3. Pattern of various geriatric diseases 4. Investigations (Routine and special) 5. Counseling of patients with geriatric diseases regarding life style modifications, assessment of their routine daily functions
Learning objective of elective	
Number of students that can be accommodate in this elective	5
Prerequisites for the elective-	Baseline understanding of geriatrics
Learning resources for students	<ol style="list-style-type: none"> 1. Harrison's text book of Internal Medicine 2. Oxford Handbook of Internal Medicine 3. API textbook of medicine 4. Hutchison's clinical methods 5. Physical diagnosis- A textbook of symptoms and signs by Vakil Golwalla 6. Videos, online articles 7. Patient interaction
List of activities in which students will participate	<ol style="list-style-type: none"> 1. History taking skills 2. Clinical examination 3. Procedural skills- BMD score calculation 4. Observation of basic procedures 5. Interpretation of blood investigations 6. Counselling skills
Portfolio entries required	
Log book entries required	Case record of patients, procedures.
Assessment	<ol style="list-style-type: none"> 1. Case presentation 2. Viva voce 3. Procedural skills- 4. Log book assessment 5. Attendance

Name of Block	2
Name of Elective	Hematology
Location of Hospital lab or research facility	OPD and ward building
Name of internal preceptors	Dr. Namita Padwal, Dr.Prerana Bhavsar
Name of external preceptor (if any)-	Nil
Learning objectives of the elective	<ol style="list-style-type: none"> 1. Demographics of the patients 2. Risk factors of hematological disorders 3. Pattern of various hematological disorders 4. Investigations (Routine and special) 5. Counseling relatives of patients with hematologic diseases
Number of students that can be accommodate in this elective	5
Prerequisites for the elective-	Baseline understanding of hematology
Learning resources for students	<ol style="list-style-type: none"> 1. Harrison's text book of Internal Medicine 2. Bethesda handbook of hematology 3. API textbook of medicine 4. Hutchison's clinical methods 5. Physical diagnosis- A textbook of symptoms and signs by Vakil Golwalla 6. Videos, online articles 7. Patient interaction
List of activities in which students will participate	<ol style="list-style-type: none"> 1. History taking skills 2. Clinical examination 3. Procedural skills- peripheral smear preparation, phlebotomy 4. Observation of bone marrow aspiration and biopsy, chemotherapy administration 5. Interpretation of blood investigations 6. Counselling skills
Portfolio entries required	
Log book entries required	Case record of patients, procedures.
Assessment	<ol style="list-style-type: none"> 1. Case presentation 2. Viva voce 3. Procedural skills- 4. Log book assessment 5. Attendance

Name of Block	2
Name of Elective	EMS (Emergency Medical Services)
Location of Hospital lab or research facility	EMS
Name of internal preceptors Name of external preceptor (if any)-	Dr. Swati Chavan, Dr. Dharendra, EMS residents
Learning objectives of the elective	Nil
	1. Demographics of the patient
	2. Risk factors of diseases presenting in the EMS
	3. Pattern of various diseases presenting in the EMS
	4. Investigations (Routine and special)
	5. Emergency management of various medical illnesses
	6. Counselling relatives for poor prognosis f patients in EMS
Number of students that can be accommodate in this elective	5
Prerequisites for the elective-	Baseline understanding of emergency medicine
Learning resources for students	1. Harrison's text book of Internal Medicine
	2. The Washington manual of emergency medicine
	3. Hutchison's clinical methods
	4. Physical diagnosis- A textbook of symptoms and signs by Vakil Golwalla
	5. Videos, online articles
	6. Patient interaction
List of activities in which students will participate	1. History taking skills
	2. Clinical examination
	3. Procedural skills- IV insertion, nasogastric tube insertion, urinary catheter insertion.
	4. Observation of emergency intubation, defibrillation, CPR.
	5. Interpretation of Electrocardiogram, arterial blood gases.
	6. Counselling skills
Portfolio entries required	
Log book entries required	case record of patients, procedures.
Assessment	1. Case presentation 2. Viva voce 3. Procedural skills- 4. Log book assessment 5. Attendance

Name of Block	2
Name of Elective	Infectious diseases and HIV
Location of Hospital lab or research facility	Infectious disease OPD, ART OPD, Ward building for indoor patients
Name of internal preceptors Name of external preceptor (if any)-	Faculty – Dr. Swati Chavan, Dr. Rupal Padhiyar, residents of Dr. Swati Chavan unit
Learning objectives of the elective	Nil
	1. Demographics of the patients
	2. Risk factors of infectious diseases
	3. Pattern of various infectious diseases
	4. Investigations (Routine and special)
	5. Counseling relatives of patients with Infectious diseases
	6. Understanding of first line ART, second line ART regimen and its indications in HIV patients as well as post exposure prophylaxis in health care workers
Learning objective of elective	
Number of students that can be accommodate in this elective	5
Prerequisites for the elective-	Baseline understanding of infectious diseases
Learning resources for students	1. Harrison's text book of Internal Medicine 2. Oxford Handbook of Internal Medicine 3. API textbook of medicine 4. NACO guidelines for ART 5. Infectious disease essentials by Mandell 6. Videos, online articles 7. Patient interaction
List of activities in which students will participate	1. History taking skills 2. Clinical examination 3. Procedural skills- Blood cultures, Wound cultures 4. Observation of sterile procedures 5. Interpretation of blood investigations, radiological investigation 6. Counselling skills
Portfolio entries required	
Log book entries required	case record of patients, procedures.
Assessment	1. Case presentation 2. Viva voce 3. Procedural skills- 4. Log book assessment 5. Attendance

NEONATOLOGY

Head of the Department: Dr. Swati Manerkar

Extension number: 3154

Name of Block	Block 2
Name of Elective	Neonatology
Location of hospital, lab or research facility	Neonatal and Post natal care wards
Name of internal preceptors	Dr. Swati Manerkar, Dr Thaslima Kalathingal
Name of external preceptor (if any)	NA
Learning objectives of the elective	<ol style="list-style-type: none"> 1. Care of normal newborn in PNC 2. To identify high risk newborns 3. Labour room care of a normal newborn 4. Neonatal resuscitation 5. Care of high-risk newborns in the NICU 6. Care of low birth weight babies 7. Counseling 8. To function effectively in a team
Number of students that can be accommodated in this elective	08
Prerequisites for the elective	Necessary immunizations
Learning resources for students	Cloherty and Stark's Manual of neonatal care
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Daily rounds in PNC and Neonatal unit 2. Participate in teaching activities of the dept 3. Participate in LR management of newborns 4. Participate in patient education and team meetings
Portfolio entries required	<ol style="list-style-type: none"> 1. Present 1 case observed being managed in the NICU and 1 case managed in step down care 2. Counseling of parents about baby care practices 3. Documentation of self-directed learning as summary and reflection
Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"
Assessment	Attendance Formative: Participation in OP & IP rounds and team activities, Presentation of worked up cases, Documentation of attendance and required portfolio and log book entries

Name of Block	Block 2
Name of Elective	Lactation support and human milk banking
Location of hospital, lab or research facility	Zonal Ref Centre and Comprehensive lactation management center, LTMGH
Name of internal preceptors	Dr. Swati Manerkar, Dr Thaslima Kalathingal
Name of external preceptor (if any)	NA
Learning objectives of the elective	Learn benefits of breastfeeding, lactation counselling, supporting BF in normal and high risk newborns, functioning of a human milk bank
Number of students that can be accommodated in this elective	04
Prerequisites for the elective	Necessary immunizations
Learning resources for students	Core curriculum
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Breastfeeding counselling 2. Practical help to mothers for breastfeeding 3. Supporting mothers of normal and high-risk newborns in achieving exclusive breastfeeding 4. Observing processes of human milk banking 5. Participate in patient education and team meeting
Portfolio entries required	<ol style="list-style-type: none"> 1. Present 1 case observed being managed in the NICU and 1 case managed in post natal care area with difficulties in breastfeeding 2. Counseling of parents and families about breastfeeding 3. Counseling of parents and families about breastmilk donation 4. Documentation of self-directed learning as summary and reflection
Log book entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	Attendance Formative: Participation in OP & IP rounds and team activities, Presentation of worked up cases, Documentation of attendance and required portfolio and log book entries

NEUROSURGERY

Head of the Department: Dr. Alok Sharma

Extension number: 3200

76

Name of Block	Block 2
Name of Elective	Neurosurgery
Location of hospital Lab/research facility	4 th Floor, OPD building, LTM Medical college hospital
Name of internal preceptor(s)	Dr. Alok Sharma, Dr. Batuk Diyora
Name of external preceptor if applicable	---
Learning objectives of elective	<ul style="list-style-type: none">-To provide care for the patients with various neurosurgical disorders-To Understand about various neurological disorders, clinical approach to the patients and their management,-To understand about different subspecialities of neurosurgery-To learn and understand the preventive aspects of head injury and stroke
Number of students that can be accommodated in this elective	03
Prerequisites for elective	-
List of activities of student participation	<ul style="list-style-type: none">-To participate in OPD and indoor patient rounds-To participate in the management of ICU patients-To attend the operation theatre and neuroendovascular procedures-To participate in Neurorehabilitation-To prepare and present at least two cases in details during department meet.
Learning Resource	Youmans and Winn Neurological Surgery
Portfolio entries required	<ul style="list-style-type: none">-Documentation of surgeries and endovascular procedures attended-Documentation of overall experience-Cases presented in departmental meeting
Log book entry require	Satisfactory completion of posting authenticated by preceptor
Assessment	Attendance Participation in OPD and IPD Observation in OT and DSA Presentation of worked up cases Portfolio and log book entries
Other comment	---

OBSTETRICS & GYNAECOLOGY

Head of the Department: Dr. Arun Nayak

Extension number: 3052

77

Name of Block	Block 2
Name of Elective	Endoscopy
Location of hospital, lab or research facility	Medical College Hospital(LTMMC and LTMGH)
Name of internal preceptors	Dr Arun H Nayak
Name of external preceptor (if any)	NA
Learning objectives of the elective	1)Knowledge about laparoscopic and hysteroscopic instruments 2)Knowledge about the diagnostic and therapeutic laparoscopic and hysteroscopic procedure assessment. 3)Pre-operative assessment 4)Post-operative monitoring
Number of students that can be accommodated in this elective	2
Prerequisites for the elective	1)basic knowledge of gynecology 2)basic knowledge about operative procedure
Learning resources for students	1)Telinde's operative gynecology
List of activities in which the student will participate	1)Participate in OP and IP rounds 2)Participate in teaching sessions 3)Participate as an observer in operative procedure
Portfolio entries required	Assignment provided 1)Two case record along with operative procedure 2)Documentation of self-directed learning as summary and reflection.
Log book entry required	Satisfactory completion of posting by a preceptor
Assessment	1) Attendance 2)Formative: participate in OP and IP rounds and team activities 3) Presentation of operated cases 4)documentation of attendance and required portfolios and log book entries required
Other comments	

Name of Block	Block 2
Name of Elective	Gynaec oncology
Location of hospital, lab or research facility	Medical College Hospital
Name of internal preceptors	1)Dr Niranjan Chavan
Name of external preceptor (if any)	NA
Learning objectives of the elective	The elective student will have 1) a multidisciplinary experience involving screening tests like Pap smear , colposcopy and surgery. 2) Students will have an understanding of the approach to the diagnosis and surgical management of gynecologic malignancies. 3) will learn general mechanisms of action of different chemotherapeutic agents and radiotherapy
Number of students that can be accommodated in this elective	2
Prerequisites for the elective	1)Basic knowledge about screening test 2)Basic knowledge about pathophysiology of the gynecological malignancy
Learning resources for students	1)Berek and Novaks Gynecology 2)Principles and practice of Gynecologic Oncology- Barakat and Berchuck(optional)
List of activities in which the student will participate	1)Participate in OP and IP rounds 2)Participate in teaching session 3)Interpretation of screening test and colposcopy 4)observing oncology surgeries.
Portfolio entries required	Assignment provided Case record of at least two cases presented
Log book entry required	Satisfactory completion of posting by a preceptor
Assessment	1) Attendance 2)Formative: participate in OPD and IPD rounds and team activities 3) Presentation of gynaec oncology cases
Other comments	

Name of Block	Block 2
Name of Elective	High Risk Obstetrics
Location of hospital, lab or research facility	Medical College Hospital
Name of internal preceptors	Dr Prasad Deshmukh
Name of external preceptor (if any)	NA
Learning objectives of the elective	<ol style="list-style-type: none"> 1) Understand the maternal and fetal implications, clinical course, management and complications of obstetrical, medical or surgical conditions of the patient. 2) perform the initial history and physical examination 3) learn postoperative management of complicated post-surgical obstetrical patients 4) To function effectively as a team member In MDT managing high risk pregnancy
Number of students that can be accommodated in this elective	2
Prerequisites for the elective	<ol style="list-style-type: none"> 1) Basic Life Support Training 2) Good Clinical Practices 3) knowledge about the physiology of Pregnancy and mechanism of labour
Learning resources for students	<ol style="list-style-type: none"> 1) William obstetrics 2) Ian Donald 3) Arias Fernando
List of activities in which the student will participate	<ol style="list-style-type: none"> 1) Participate in the evaluation of inpatient and outpatient high-risk consultations . 2) participate in or observe high-risk deliveries, instrumental deliveries, Obstetric Hysterectomy obstetrical procedures (e.g. cervical cerclage) under supervision. 3) Present cases in ward rounds 4) Participate in teaching session
Portfolio entries required	<p>Assignment provided</p> <p>Case record of atleast two cases presented</p>
Log book entry required	Satisfactory completion of posting by a preceptor
Assessment	<ol style="list-style-type: none"> 1) Attendance 2) Formative : participate in OPD and IPD rounds and team activities 3) Presentation of high risk obstetrics cases
Other comments	

Name of Block	Block 2
Name of Elective	Reproductive Endocrinology and Infertility
Location of hospital, lab or research facility	Medical College Hospital(LTMMC and LTMGH)
Name of internal preceptors	1)Dr Archana Bhosale
Name of external preceptor (if any)	NA
Learning objectives of the elective	1) familiarize the student with the diagnosis and treatment of reproductive endocrine problems female and male infertility, recurrent pregnancy loss, polycystic ovarian syndrome, anovulation, amenorrhea, endometriosis, chronic pelvic pain, abnormal uterine bleeding and uterine leiomyomas. 2)to be able to take history and clinical examination of infertility cases 3)Exposure to Follicular monitoring and IUI techniques.
Number of students that can be accommodated in this elective	2
Prerequisites for the elective	1)basic knowledge of endocrinology
Learning resources for students	1)Speroff's Clinical Gynecologic Endocrinology and Infertility
List of activities in which the student will participate	1)Participate in OPD and IPD team rounds 2)observe and understand principles in diagnosis and management of infertility 3)Participate in management of infertility cases 4)present at least one case of infertility in the OPD 4)counsel patients.
Portfolio entries required	Assignment provided 1)Two case record along with operative procedure 2)Documentation of self-directed learning as summary and reflection.
Log book entry required	Satisfactory completion of posting by a preceptor
Assessment	1) Attendance 2)Formative : participate in OP and IP rounds and team activities 3) Presentation of infertility cases 4)documentation of attendance and required portfolios and log book entries required
Other comments	

Name of Block	Block 2
Name of Elective	Urogynecology
Location of hospital, lab or research facility	Medical College Hospital (LTMMC and LTMGH)
Name of internal preceptors	1)Dr Rahul Mayekar
Name of external preceptor (if any)	NA
Learning objectives of the elective	1)to be able to take history and clinical examination and diagnose urogynaecology cases. 2)To function effectively as a team member in MultidisciplinaryTeam management of urogynaecology cases.
Number of students that can be accommodated in this elective	2
Prerequisites for the elective	1)basic knowledge of pelvic floor anatomy 2)knowledge of pathophysiology of the condition like pelvic organ prolapse, urinary incontinence and of acute chronic and recurrent infection of the urinary tract.
Learning resources for students	1)Telinde's operative gynaecology 2)Ostergard's urogynaecology and pelvic floor dysfunction (optimal
List of activities in which the student will participate	1)Participate in OPD and IPD rounds 2) students participate in the evaluation and treatment of patients with complaints related to pelvic organ prolapse, pelvic floordysfunction, urinary incontinence and urinary tract infection. 3)Observe surgical management of urogynec cases
Portfolio entries required	Assignment provided 1)Two case record along with operative procedure 2)Documentation of self- directed learning as summary and reflection.
Log book entry required	Satisfactory completion of posting by a preceptor
Assessment	1) Attendance 2)Formative:participate in OP and IP rounds and team activities 3)Presentation of urogynec cases 4)documentation of attendance and required portfolios and log book entries required
Other comments	

OPHTHALMOLOGY

Head of the Department: Dr. Chhaya Shinde

Extension number: 3651/3652

Name of Block	Block 2
Name of Elective	Amblyopia
Location of hospital Lab or research facility	Ophthalmology OPD, OPD Building, 2nd floor, LTMMC & GH , Sion
Name of Internal preceptor(s)	Dr. Nayana Potdar Dr. Shruti Shirwadkar
Name of external preceptor if applicable	NA
Learning objectives of elective	<ol style="list-style-type: none"> 1. To understand the pathogenesis of amblyopia 2. To be able to diagnose amblyopia 3. To be able to counsel the patient and parents of the child about amblyopia under supervision 4. To function effectively as a team member in a team managing amblyopia
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Nil.
List of activities of student's participation	<ol style="list-style-type: none"> 1. Participate in OPD and IPD rounds 2. Participate in teaching sessions 3. Take history of patients 4. Document examination findings 3. Present at least two cases that are fully worked up in the teaching session 4. Participate in patient and parents education
Learning Resources	<p>Books</p> <ol style="list-style-type: none"> 1. Parsons' Diseases of the eye 2. Kanski's Clinical Diagnosis in Ophthalmology 3. Nema Textbook of Ophthalmology <p>Youtube videos Small group tutorial Lecture Demonstration</p>

Portfolio entries required	Assignments provided 2 worked up case records that have been presented Documentation of self-directed learning as summary and reflection (Experiences, observations)
Log book entry required	Satisfactory completion of posting verified by a preceptor
Assessment	Formative: Participation in grand rounds, seminars, case records, submission of assignments, reflection on learnings, preparation of abstracts for research posters, design and participation in patient education programs Attendance 75%
Other comments	Nil

Name of Block	Block 2
Name of Elective	Corneal blindness and Eye donation
Location of hospital Lab or research facility	Ophthalmology OPD, OPD Building, 2nd floor, LTMMC & GH, Sion
Name of Internal preceptor(s)	Dr. Chhaya Shinde Dr Harsha Pawar
Name of external preceptor if applicable	NA
Learning objectives of elective	<ol style="list-style-type: none"> 5. To understand the pathogenesis of corneal blindness 6. To be able to diagnose various corneal conditions leading to blindness 7. To be able to counsel the patient and relatives about corneal blindness under supervision 8. To function effectively as a team member in a team managing corneal blindness in the patient 9. To have knowledge of procedure, indications and contraindications of eye donation 10. To function effectively as a team member in cornea retrieval team
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Nil .
List of activities of student's participation	<ol style="list-style-type: none"> 1. Participate in OPD and IPD rounds 2. Participate in teaching sessions 3. Take history of patients 4. Document examination findings with diagrams 3. Present at least two cases that are fully worked up in the teaching session 4. Participate in patient and relatives' education 5. To motivate at least 2 eye donations 6. To attend eye donation call with the team
Learning Resources	<p>Books</p> <ol style="list-style-type: none"> 4. Parsons' Diseases of the eye 5. Kanski's Clinical Diagnosis in Ophthalmology

	<p>6. Nema Textbook of Ophthalmology</p> <p>Youtube videos Small group tutorial Lecture Demonstration</p>
Portfolio entries required	<p>Assignments provided 2 worked up case records that have been presented Documentation of self-directed learning as summary and reflection (Experiences, observations)</p>
Log book entry required	Satisfactory completion of posting verified by a preceptor
Assessment	<p>Formative: Participation in grand rounds, seminars, case records, submission of assignments, reflection on learnings, preparation of abstracts for research posters, design and participation in patient education programs</p> <p>Attendance 75%</p>
Other comments	Nil

Name of Block	Block 2
Name of Elective	Strabismus
Location of hospital Lab or research facility	Ophthalmology OPD, OPD Building, 2nd floor, LTMMC & GH, Sion
Name of Internal preceptor(s)	Dr. Nayana Potdar Dr. Shruti Shirwadkar
Name of external preceptor if applicable	NA
Learning objectives of elective	<ul style="list-style-type: none"> 11. To understand the pathogenesis, types, clinical features of strabismus 12. To be able to diagnose strabismus 13. To be able to counsel the patient and parents of the child about strabismus under supervision 14. To function effectively as a team member in a team managing strabismus
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Nil.
List of activities of student's participation	<ul style="list-style-type: none"> 1. Participate in OPD and IPD rounds 2. Participate in teaching sessions 3. Take history of patients 4. Document examination findings 3. Present at least two cases that are fully worked up in the teaching session 4. Participate in patient and parents education
Learning Resources	<p>Books</p> <ul style="list-style-type: none"> 7. Parsons' Diseases of the eye 8. Kanski's Clinical Diagnosis in Ophthalmology 9. Nema Textbook of Ophthalmology <p>Youtube videos Small group tutorial Lecture Demonstration</p>
Portfolio entries required	<p>Assignments provided</p> <p>2 worked up case records that have been presented</p>

	Documentation of self-directed learning as summary and reflection (Experiences, observations)
Log book entry required	Satisfactory completion of posting verified by a preceptor
Assessment	Formative: Participation in grand rounds, seminars, case records, submission of assignments, reflection on learnings, preparation of abstracts for research posters, design and participation in patient education programs Attendance 75%
Other comments	Nil

Name of Block	Block 2
Name of Elective	Vascular retinopathies
Location of hospital Lab or research facility	Ophthalmology OPD, OPD Building, 2nd floor, LTMMC & GH , Sion
Name of Internal preceptor(s)	Dr. Sujit Murade Dr. Shruti Shirwadkar
Name of external preceptor if applicable	NA
Learning objectives of elective	<ul style="list-style-type: none"> 15. To understand the pathogenesis of vascular retinopathies 16. To be able to diagnose vascular retinopathies 17. To be able to counsel the patient and relative about vascular retinopathies under supervision 18. To function effectively as a team member in a team managing vascular retinopathies
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Nil.
List of activities of student's participation	<ul style="list-style-type: none"> 1. Participate in OPD and IPD rounds 2. Participate in teaching sessions 3. Take history of patients 4. Document retinal findings 3. Present at least two cases that are fully worked up in the teaching session 4. Participate in patient education
Learning Resources	<p>Books</p> <ul style="list-style-type: none"> 10. Parsons' Diseases of the eye 11. Kanski's Clinical Diagnosis in Ophthalmology 12. Nema Textbook of Ophthalmology <p>Youtube videos Small group tutorial Lecture Demonstration</p>
Portfolio entries required	<p>Assignments provided</p> <p>2 worked up case records with retinal drawing that have been presented</p>

	Documentation of self-directed learning as summary and reflection (Experiences, observations)
Log book entry required	Satisfactory completion of posting verified by a preceptor
Assessment	Formative: Participation in grand rounds, seminars, case records, submission of assignments, reflection on learnings, preparation of abstracts for research posters, design and participation in patient education programs Attendance 75%
Other comments	Nil

ORTHOPAEDICS

Head of the Department: Dr. A.B.Goregaonkar

Extension number: 3141

Name of Block	02
Name of Elective	Emergency management of accident cases
Location of hospital, lab, research facility	OPD No.8 , Ground floor, EMS building, LOKMANYA TILAK MUNICIPAL MEDICAL COLLEGE AND GENERAL HOSPITAL.
Name of Internal Preceptors	Dr. A.B. Goregaonkar Dr. Binoti Sheth Dr. Ashok Rathod Dr. Sudhir Sharan
Name of External Preceptors (if any)	-
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To provide emergency stabilization of fracture cases in a supervised manner. 2. To function effectively as a team member in emergency care of polytrauma patients.
The number of students that can be accommodated in this elective	02
Prerequisites of the elective	Nil
List of activities in which students will participate	<ol style="list-style-type: none"> 1. Participate in application of splints 2. Participate in patients' education & counseling
Learning resources for students	Closed treatment of common fractures- John Charnley
Portfolio entries required	Documentation of self –directed learning as summary and reflection
Logbook entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	Documentation of attendance and required portfolio and log book entries.
Other comments	

Name of Block	02
Name of Elective	Management of orthopaedic patients
Location of hospital, lab, research facility	Orthopaedic ward 29,30,3 rd floor, Hospital building, Lokmanya Tilak Municipal Medical College and General Hospital.
Name of Internal Preceptors	Dr. A.B. Goregaonkar Dr. Binoti Sheth Dr. Ashok Rathod Dr. Sudhir Sharan
Name of External Preceptors (if any)	-
Learning objectives of the elective	1. To provide care for patients admitted in ward in a supervised manner. 2. To function effectively as a team member in assisting for application of splints, traction in fracture patients. 3. To Learn management of paraplegic patients. 4. To participate in management of wounds.
The number of students that can be accommodated in this elective	02
Prerequisites of the elective	Nil
List of activities in which students will participate	1. Participate in indoor patient rounds 2. Participate in dressings 3. Participate in patient education and counseling. 4. Participate in post-operative mobilization of patients.
Learning resources for students	Traction and orthopaedic appliances- John D., M, Stewart
Portfolio entries required	Assignments provided Documentation of self –directed learning as summary and reflection
Logbook entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	Attendance Formative: Participation in indoor patient rounds & team activities Documentation of attendance and required portfolio and log book entries.

PAEDIATRIC SURGERY

Head of the Department: Dr. Paras Kothari

Extension number: 3331

Name of Elective	Paediatric Surgery
Location of hospital, lab, research facility	Ward 1a, Snicu And Paediatric Operation Theatre Lokmanya Tilak Municipal Medical College And General Hospital.
Name of Internal Preceptors	Dr Paras Kothari Dr Abhaya Gupta
Name of External Preceptors (if any)	-
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To provide care for neonates & pediatric patients who need surgical care in supervised environment 2. To understand various congenital surgical malformation, common pediatric surgical problems, pediatric surgical reconstructive surgery. 3. To attend OPD, ward and pediatric OT. 4. To understand outcome and follow up care of pediatric patients undergoing surgery
The number of students that can be accommodated in this elective	02
Prerequisites of the elective	Must have received necessary immunization and basic life support training
Learning resources for students	<ol style="list-style-type: none"> 1. The Surgical examination of Children by John Hutson 2. Human Embryology by Inderbir Singh. 3. A Manual of Clinical Surgery S Das

List of activities in which students will participate	<ul style="list-style-type: none"> C. To obtain history and perform examination of pediatric surgery patient in OPD D. Participate in ward work E. To present at least two cases that are fully worked up in the teaching session F. To attend surgeries G. Participate in follow up of patients.
Portfolio entries required	<p>Assignments provided</p> <p>Two worked up case records that has been presented</p> <p>Documentation of self directed leaning as summary and reflection.</p>
Logbook entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	<p>Attendance</p> <p>Formative: Participation in OP & IP rounds and team activities</p> <p>Presentation of worked up cases, documentation of attendance, required portfolio and logbook entries.</p>
Other comments	

PAEDIATRIC MEDICINE

Head of the Department: Dr.Radha Ghildiyal

Extension number: 3151

Name of Block	2
Name of Elective	Hematology, (Thalassemia Day Care Centre)
Location of hospital Lab or research facility	Medical College Building, 1 st floor
Name of Internal preceptor(s)	Dr. Sujata Sharma
Name of external preceptor if applicable	
Learning objectives of elective	<ol style="list-style-type: none"> 1. To provide care for thalassemic children in the Day care center in a supervised manner. 2. To assist in supervision of blood transfusion to thalassemic. 3. To describe the pathophysiological clinical correlates as they apply to care of thalassemic children.
Number of students that can be accommodated in this elective	4
Prerequisites for elective	-
List of activities of student's participation	<ol style="list-style-type: none"> 1. Participate in day care patient rounds. 2. Participate in teaching sessions of the department. 3. Participate in the Hematology Oncology OPD 4. Present at least 2 cases that are worked up in the teaching session. 5. Participate in Parent education and counselling.
Learning Resouces	Nathan and Oski textbook of Hematology in Infancy and Childhood
Portfolio entries required	<p>Assignments provided</p> <p>Two worked up case records that have been presented</p> <p>Documentation of self-directed learning as summary and reflection</p>

Log book entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	Attendance Formative: Participation in OP & IP rounds and team activities, Presentation of worked up cases, Documentation of attendance and required portfolio and log book entries
Other comments	

Name of Block	2
Name of Elective	Pediatric Intensive Care Unit
Location of hospital Lab or research facility	PICU, Casualty Building, First floor
Name of Internal preceptor(s)	Dr. Sanjeevani Masavkar Dr. Savita Khadse
Name of external preceptor if applicable	-
Learning objectives of elective	<ol style="list-style-type: none"> 1. To provide care for children in the PICU in a supervised manner. 2. To function effectively as a team member in assisting for Cardio pulmonary resuscitation in children. 3. To describe the pathophysiological clinical correlates as they apply to care of children in the PICU.
Number of students that can be accommodated in this elective	2
Prerequisites for elective	Must have received Basic Life support training
List of activities of student's participation	<ol style="list-style-type: none"> 1. Participate in indoor patient rounds. 2. Participate in afternoon teaching sessions of the department. 3. Present at least 2 cases that are worked up in the teaching session. 4. Participate in Parent education and counselling. 5. Participate in death audit meetings.
Learning Resources	IAP Pediatric Intensive care book
Portfolio entries required	Assignments provided Two worked up case records that have been presented Documentation of self-directed learning as summary and reflection
Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"
Assessment	Attendance Formative: Participation in OP & IP rounds and team activities, Presentation of worked up cases, Documentation of attendance and required portfolio and log book entries
Other comments	

Name of Block	2
Name of Elective	Urban Health Centre (NRRTC)
Location of hospital Lab or research facility	UHC, Dharavi
Name of Internal preceptor(s)	Dr. Alka Jadhav, Dr. Yashwant Gabhale Dr. Prachi Karnik
Name of external preceptor if applicable	-
Learning objectives of elective	1. To provide care for children with Severe acute malnutrition in a supervised manner. 2. To counsel parents regarding the importance of nutrition and dietary advice. 3. To describe the pathophysiological clinical correlates as they apply to care of children with severe acute malnutrition.
Number of students that can be accommodated in this elective	4
Prerequisites for elective	-
List of activities of student's participation	1. Participate in indoor patient rounds. 2. Participate in the Nutrition OPD clinical case taking. 3. Participate in afternoon teaching sessions of the department. 4. Present at least 2 cases that are worked up in the teaching session. 5. Participate in Parent education and counselling.
Learning Resources	1. Text book of Pediatric Nutrition in clinical practice by K. Elizabeth 2. Nutrition Module 10: Managing severe Acute malnutrition by WHO/UNICEF
Portfolio entries required	Assignments provided Two worked up case records that have been presented Documentation of self-directed learning as summary and reflection
Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"
Assessment	Attendance Formative: Participation in OP & IP rounds and team activities, Presentation of worked up cases, Documentation of attendance and required portfolio and log book entries

PLASTIC SURGERY

Head of the Department: Dr.Mukund Jagannathan

Extension number: 3274

Name of Block	2
Name of Elective	Reconstructive Microsurgery (Plastic And Reconstructive Surgery)
Location of hospital Lab or research facility	Plastic Surgery Department, Lokmanya Tilak Municipal Medical College And General Hospital.
Name of Internal preceptor(s)	Dr Maksud Devale Dr Amarnath Munoli Dr Sarika Mayekar
Name of external preceptor if applicable	-
Learning objectives of elective	<ol style="list-style-type: none"> 1. To understand scope of reconstructive micro surgery as therapeutic modality 2. To understand post op care for patients who need reconstructive micro surgical care 3. To counsel and obtain consent from patients undergoing reconstructive micro surgery 4. To understand outcome and follow up care of patients undergoing reconstructive micro surgery
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Must have done general surgery/orthopedics/ obgy clinical rotations. Must be immunized against hepatitis
List of activities of student's participation	<ol style="list-style-type: none"> A. To obtain history and consent from patient B. Participate in work up of patients C. To present at least two cases that are fully worked up in the teaching session D. To attend reconstructive micro surgeries E. Participate follow up of patients till their discharge.

Learning Resources	10 th edition, McGregor's fundamental techniques of plastic surgery Grabb and smiths
Portfolio entries required	Assignments provided Two worked up case records that has been presented Documentation of self-directed leaning as summary and reflection.
Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"
Assessment	Attendance Formative: Participation in OP & IP rounds and team activities Presentation of worked up cases, documentation of attendance, required portfolio and logbook entries.
Other comments	

Name of Block	02
Name of Elective	Definitive Treatment Of Maxillofacial Fractures (Plastic And Reconstructive Surgery)
Location of hospital, lab, research facility	Plastic Surgery Department, Lokmanya Tilak Municipal Medical College And General Hospital.
Name of Internal Preceptors	Dr Mukund Jagannathan Dr Rohit Munot Dr Sanket Ekhande
Name of External Preceptors (if any)	-
Learning objectives of the elective	<ul style="list-style-type: none"> A. To know assessment of maxillofacial injuries B. To know primary care of maxillofacial injuries C. To know instrumentation and surgical approaches for patients who need surgical care D. To counsel and obtain consent from patients undergoing surgery
The number of students that can be accommodated in this elective	05
Prerequisites of the elective	Must have done general surgery/orthopedics/obgy clinical rotations
Learning resources for students	10 th Edition, Mcgregor's Fundamental Techniques Of Plastic Surgery Grabb and smiths
List of activities in which students will participate	<ul style="list-style-type: none"> A. To obtain history and consent from patient B. Participate in work up of patients C. To present at least two cases that are fully worked up in the teaching session D. To attend maxillofacial surgeries E. Participate follow up of patients till their discharge

Portfolio entries required	Assignments provided Two worked up case records that has been presented Documentation of self directed leaning as summary and reflection.
Logbook entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	Attendance Formative: Participation in OP & IP rounds and team activities Presentation of worked up cases, documentation of attendance, required portfolio and logbook entries.
Other comments	

PREVENTIVE & SOCIAL MEDICINE
 Head of the Department: Dr. Seema Bansode
 Extension number:3123

Name of Block	Block 2
Name of Elective	Community Medicine
Location of hospital, lab or research facility	Health post of Rural Health Training center of medical college
Name of internal preceptors	Dr. D. H. Rao
Name of external preceptor (if any)	NONE
Learning objectives of the elective	1.To provide primary care to patients under supervision. 2.To know the role of Health practitioner in delivery of health services in rural area, especially with respect to NHP. 3.To participate in health outreach activities 4.To be able to work as a member of the health team.
Number of students that can be accommodated in this elective	5-6
Prerequisites for the elective	Nil
Learning resources for students	J. Kishore IAPSM Textbook of Community Medicine (2 nd Edition)
List of activities in which the student will participate	1.Outreach activities participation. 2.Document at least 2 patients- one from outreach and one from centre. 3.Participate in health talk to patients.
Portfolio entries required	Assignments -2 worked up case records.
Log book entry required	Satisfactory completion, adequate participation in activities, along with 75 % attendance minimum.
Assessment	1.Participation in activities 2.Presentation of cases. 3.Document of attendance, required portfolio and daily log book entries
Other comments	
Name and signature of Head of the Department	

Name of Block	Block 2
Name of Elective	Community Medicine
Location of hospital, lab or research facility	Health post of Urban Health center of Medical college
Name of internal preceptors	Dr Pallavi Shelke
Name of external preceptor (if any)	NONE
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To provide primary care to patients under supervision. 2. To know the role of Health practitioner in delivery of health services in urban area, especially with respect to NHP. 3. To participate in health outreach activities 4. To be able to work as a member of the health team.
Number of students that can be accommodated in this elective	5-6
Prerequisites for the elective	Nil
Learning resources for students	J. Kishore IAPSM Textbook of Community Medicine (2 nd Edition)
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Outreach activities participation. 2. Document at least 2 patients- one from outreach and one from center 3. Participate in health talk to patients.
Portfolio entries required	Assignments -2 worked up case records.
Log book entry required	Satisfactory completion, adequate participation in activities, along with 75 % attendance minimum.
Assessment	<ol style="list-style-type: none"> 1. Participation in activities 2. Presentation of cases. 3. Document of attendance, required portfolio and daily log book entries
Other comments	

PSYCHIATRY

Head of Department: Dr. Nilesh Shah

Extension number:3724

Name of Block	Psychiatry (02)
Name of Elective	Electroconvulsive Therapy (ECT)
Location of Hospital lab or research facility	OPD 21, 2 nd floor
Name of internal preceptors	Dr. Sagar Karia Dr. Sushma Sonavane
Learning objective of elective	To know indications, contraindications, procedure and side effects of ECT.
Number of students that can be accommodate in this elective	5 (Five)
Learning resources for students	To read chapter on ECT from UG Textbook Short textbook of Psychiatry, Dr. Neeraj Ahuja, 7 th Edition
List of activities in which students will participate	Pre ECT workup, anesthetic evaluation, procedure of ECT, Post ECT car
Portfolio entries required	Yes
Log book entries required	Yes
Assessment	Viva Voice

Name of Block	Psychiatry (02)
Name of Elective	Schizophrenia
Location of Hospital lab or research facility	OPD 21, 2 nd floor, Wards 1 & 19
Name of internal preceptors	Dr. Sushma Sonavane, Dr. Sagar Karia
Learning objective of elective	To know signs and symptoms, criteria for diagnosis, treatment and prognosis of schizophrenia
Number of students that can be accommodate in this elective	10 (Ten)
Learning resources for students	To read chapter on ECT from UG Textbook Short textbook of Psychiatry, Dr. Neeraj Ahuja, 7 th Edition
List of activities in which students will participate	History taking/ case presentation, ward rounds, tutorials, lectures conducted
Portfolio entries required	Yes
Log book entries required	Yes
Assessment	Viva Voice

RADIODIAGNOSIS

Head of the Department: Dr. Anagha Joshi

Extension number: 3437

Name of Block	2
Name of Elective	Imaging Modalities in Learning Radiology
Location of hospital Lab or research facility	Radiology department.
Name of Internal preceptor(s)	Dr. Ashank Bansal (Asst Proff) Dr. Nitesh Jadhav (Asst Proff) Dr Neha Rahatekar (Asst Proff)
Name of external preceptor if applicable	-
Learning objectives of elective	<ol style="list-style-type: none"> 1. To enlist the various imaging modalities available in practice in the field of Radiology. 2. To effectively understand the technical specialties of each modality in brief. 3. To understand the advantages and disadvantages of each imaging modality. 4. To observe the fundamentals of Learning Radiology as a helpful and non invasive adjunct in a clinical diagnosis.
Number of students that can be accommodated in this elective	6.
Prerequisites for elective	<p>Good clinical practice and knowledge aptitude</p> <p>Basic understanding of radiation safety measures.</p>
List of activities of student's participation	<ol style="list-style-type: none"> 1. Participate in case based learning sessions in various subspecialties of department of Radiology on a rotational basis. 2. Participate in patient counseling and history taking and understand its role in good imaging. 3. Work in groups for presentation of two case based scenarios each and selection of appropriate imaging modality for same. 4. Participate in a systematic analysis of patient prerequisites, indications, contraindications and algorithms of various imaging modalities.
Learning Resources	<p>Fundamentals of Xray And Radium Physics by Joseph Selman.</p> <p>Manual of diagnostic Ultrasound by P.E.S.Palmer.</p>

Portfolio entries required	Documentation of group presentations on case based learning. Documentation of self-directed learning as summary and reflection.
Log book entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	Attendance Presentation of case specific for each imaging modality in brief. Documentation of attendance and required portfolio and log book entries.
Other comments	

Name of Block	2
Name of Elective	Chest Radiography
Location of hospital Lab or research facility	OPD 26, Department of Radiology.
Name of Internal preceptor(s)	Dr. Mridula Muthe (Asst Proff) Dr. Ankita Shah.(Asst Proff) Dr. Soniya (Asst Proff)
Name of external preceptor if applicable	-
Learning objectives of elective	<ol style="list-style-type: none"> 1. To understand the clinical indications and contraindications of a chest radiograph. 2. To recognize the normal anatomic structures of a chest x-ray with its normal reporting pattern. 3. To understand basic x- ray features of the most common lung and pleural based pathologies in brief, with emphasis on emergency radiology.
Number of students that can be accommodated in this elective	4
Prerequisites for elective	Good clinical practice and knowledge aptitude. Basic understanding of radiation safety measures.
List of activities of student's participation	<ol style="list-style-type: none"> 1. Participate in case based x-ray interpretation seminars. 2. Observe the basic radiological signs to differentiate the various lung pathologies on the basis of a chest radiograph. 3. Participate in presentations of atleast 2 cases each and learn to formulate a provisional diagnosis on the basis of a chest radiograph.
Learning Resources	Felson's Principles of Chest Roentgenology.
Portfolio entries required	Documentation of group presentations on case based learning. Documentation of self-directed learning as summary and reflection.
Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"
Assessment	Attendance. Presentations of worked up cases. Documentation of attendance and required portfolio and log book entries.
Other comments	

RESPIRATORY MEDICINE

Head of the Department: Dr. Jairaj P. Nair

Extension number: 3085

Name of Block	2
Name of Elective	Respiratory Medicine I
Location of hospital, lab, research facility	Ward No. 40, 2 nd Floor OLD OPD Building, Lokmanya Tilak Municipal Medical College And General Hospital.
Name of Internal Preceptors	Dr Jairaj P. Nair (Professor & Head) Dr. Sonal Karpe(Associate Prfoessor)
Name of External Preceptors (if any)	-
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To study clinical profile of patients presenting with cervical lymphadenopathy 2. To observe and learn the procedure of fine needle aspiration. 3. To study cytology and microbiological features of FNA of cervical lymph node. 4. To study the treatment and follow up
The number of students that can be accommodated in this elective	02
Prerequisites of the elective	Knowledge of neck anatomy
Learning resources for students	Textbook of Tuberculosis, Sharma & Mohan 3 rd edition
List of activities in which students will participate	<ol style="list-style-type: none"> 1. To learn history taking in cases of cervical lymphadenopathy and to enlist various causes of it 2. To observe and learn the procedure of fine needle aspiration. 3. To study the cytological features of lymphnode FNA.

Portfolio entries required	Documentation of clinical, radiological, biochemical and microbiological parameters.
Logbook entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	Attendance Formative: Participation in procedure of lymphnode FNAC. Presentation of worked up cases, documentation of attendance and logbook entries.
Other comments	

Name of Block	2
Name of Elective	Respiratory Medicine II
Location of hospital, lab, research facility	Intensive Respiratory Care Unit, Lokmanya Tilak Municipal Medical College And General Hospital.
Name of Internal Preceptors	Dr. Jairaj P. Nair (Professor & Head) Dr. Sonal Karpe(Associate Professor)
Name of External Preceptors (if any)	-
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To evaluate clinical profile of patients with pleural effusion 2. To study biochemical parameters of pleural fluid 3. To study microbiological yield of pleural fluid 4. To study radiological changes on treatment 5. To study outcome of treatment
The number of students that can be accommodated in this elective	02
Prerequisites of the elective	Anatomy and Physiology of lungs
Learning resources for students	Textbook of pleural diseases : Richard Light
List of activities in which students will participate	<ol style="list-style-type: none"> 1. To obtain history from patient 2. Observe and learn procedure of pleural tapping 3. To collect and analyze pleural fluid reports 4.To follow up of patients till treatment completion
Portfolio entries required	Documentation of clinical, radiological, biochemical and microbiological parameters.
Logbook entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	Attendance Formative: Participation in procedure of pleural tapping. Presentation of worked up cases, documentation of attendance and logbook entries.
Other comments	

SURGERY

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Head of the Department: Dr. S.Prabhakar

Extension number: 3102

Name of Block	02
Name of Elective	Burns
Location of hospital, lab, research facility	Burns Ward, Lokmanya Tilak Municipal Medical College And General Hospital.
Name of Internal Preceptors	Dr Ranjeet Kamble Dr Chetan Rathod Dr Nitin Akamyawar
Name of External Preceptors (if any)	-
Learning objectives of the elective	<ul style="list-style-type: none">A. To provide care for patients with burns in supervised environmentB. To function effectively as a team member for managing burns patientsC. To counsel patients about minor burns care appropriatelyD. To access and manage burns patients in emergency and OPD
The number of students that can be accommodated in this elective	02
Prerequisites of the elective	Must have received necessary immunization and basic life support training
Learning resources for students	27 th Edition, Bailey And Love's Short Practice Of Surgery
List of activities in which students will participate	<ul style="list-style-type: none">A. To obtain history and consent from patientB. Participate in teaching sessions of the departmentC. Participate in OPD and IPD roundsD. To present at least two cases that are fully worked up in the teaching sessionE. To participate in patient education and multidisciplinary team meetingsF. Participate in audit meetings

Portfolio entries required	Assignments provided Two worked up case records that has been presented Documentation of self directed leaning as summary and reflection.
Logbook entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	Attendance Formative: Participation in OP & IP rounds and team activities Presentation of worked up cases, documentation of attendance, required portfolio and logbook entries.
Other comments	

Name of Block	02
Name of Elective	Emergency Surgery
Location of hospital, lab, research facility	Emergency Medical Services, Lokmanya Tilak Municipal Medical College And General Hospital.
Name of Internal Preceptors	Dr S.Prabhakar Dr Vineet Kumar
Name of External Preceptors (if any)	-
Learning objectives of the elective	A. To provide care for patients who need emergency surgical care in supervised environment B. To understand need of emergency surgery as diagnostic and therapeutic modality C. To counsel and obtain consent from patients undergoing emergency surgery D. To understand outcome and follow up care of patients undergoing emergency surgery
The number of students that can be accommodated in this elective	02
Prerequisites of the elective	Must have received necessary immunization and basic life support training
Learning resources for students	27 th Edition, Bailey And Love's Short Practice Of Surgery
List of activities in which students will participate	A.To obtain history and consent from patient B.Participate in resuscitation of patients C. To present at least two cases that are fully worked up in the teaching session D. To attend emergency surgeries E. Participate follow up of patients till their hospital disposition
Portfolio entries required	Assignments provided Two worked up case records that has been presented Documentation of self directed leaning as summary and reflection.
Logbook entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"

Assessment	Attendance Formative: Participation in OP & IP rounds and team activities Presentation of worked up cases, documentation of attendance, required portfolio and logbook entries.
Other comments	

Name of Block	02
Name of Elective	Gastrointestinal Endoscopy
Location of hospital, lab, research facility	Endoscopy Room, Department Of Surgery, Lokmanya Tilak Municipal Medical College And General Hospital.
Name of Internal Preceptors	Dr Minakshi Gadahire Dr Vishwajeet Pawar
Name of External Preceptors (if any)	-
Learning objectives of the elective	<ul style="list-style-type: none"> A. To provide care for patients who need endoscopy in supervised environment B. To understand need of endoscopy as diagnostic and therapeutic modality C. To counsel and obtain consent from patients undergoing endoscopic procedures D. To understand outcome and follow up care of patients undergoing endoscopic procedures
The number of students that can be accommodated in this elective	02
Prerequisites of the elective	Must have received necessary immunization and basic life support training
Learning resources for students	27 th Edition, Bailey And Love's Short Practice Of Surgery

List of activities in which students will participate	<ul style="list-style-type: none"> A. To obtain history and consent from patient B. Participate in teaching sessions of department C. To present at least two cases that are fully worked up in the teaching session D. To participate in patient education and multidisciplinary team meetings E. Participate in audit meetings
Portfolio entries required	<p>Assignments provided</p> <p>Two worked up case records that has been presented</p> <p>Documentation of self directed leaning as summary and reflection.</p>
Logbook entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	<p>Attendance</p> <p>Formative: Participation in OP & IP rounds and team activities</p> <p>Presentation of worked up cases, documentation of attendance, required portfolio and logbook entries.</p>
Other comments	

Name of Block	01
Name of Elective	Vein Clinic
Location of hospital, lab, research facility	Vein Clinic, Department Of Surgery, Lokmanya Tilak Municipal Medical College And General Hospital.
Name of Internal Preceptors	Dr Dev Adhikari Dr Pallavi Shambhu
Name of External Preceptors (if any)	-
Learning objectives of the elective	<ul style="list-style-type: none"> A. To provide care for patients who need management of varicose veins in supervised environment B. To understand need of EVLT, sclerotherapy as therapeutic modality C. To counsel and obtain consent from patients undergoing EVLT, sclerotherapy and compression D. To understand outcome and follow up care of patients undergoing EVLT, sclerotherapy and compression
The number of students that can be accommodated in this elective	02
Prerequisites of the elective	Must have received necessary immunization and basic life support training
Learning resources for students	27 th Edition, Bailey And Love's Short Practice Of Surgery

List of activities in which students will participate	<ul style="list-style-type: none"> A. To obtain history and consent from patient B. Participate in assessment of varicose veins of patients by clinical methods ad Doppler scanning C. To present at least two cases that are fully worked up in the teaching session D. To assess appropriate modality of treatment E. Participate in EVLT, sclerotherapy
Portfolio entries required	<p>Assignments provided</p> <p>Two worked up case records that has been presented</p> <p>Documentation of self directed learning as summary and reflection.</p>
Logbook entry required	<p>Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”</p>
Assessment	<p>Attendance</p> <p>Formative: Participation and team activities</p> <p>Presentation of worked up cases, documentation of attendance, required portfolio and logbook entries.</p>
Other comments	

UROLOGY

Head of the Department: Dr. Ajit Sawant

Extension number: 3190

Name of Block	Block 2
Name of Elective	Genito Urinary Diseases
Location of hospital, lab or research facility	New OPD building, Ward 36
Name of internal preceptors	<ol style="list-style-type: none"> 1. Dr Ajit Sawant (Professor & HOD) 2. Dr Prakash Pawar (Professor) 3. Dr Sunil Patil (Associate Professor) 4. Dr Mohd.Hamid (Assistant Professor)
Name of external preceptor (if any)	N/A
Learning objectives of the elective	<ol style="list-style-type: none"> 1. UTI 2. Stone diseases 3. Prostatomegaly 4. Urethral stricture 5. Urological malignancy 6. Renal transplant
Number of students that can be accommodated in this elective	10
Prerequisites for the elective	N/A
Learning resources for students	<ol style="list-style-type: none"> 1. Bailey & Love's Short Practice of Surgery 2. Campbell-Walsh Urology
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Work daily with a supervisor in observing, assisting & performing simple urological procedure 2. Participation in departmental academic activities
Portfolio entries required	N/A
Log book entry required	Yes
Assessment	Ongoing Formative Assessment
Other comments	--