

Biochemistry 58 to 65

MGMIHS, Navi Mumbai

Electives Module

Anatomy, Physiology a Biochemistry for Phase 3 part 1

(as per CBME syllabus)



MGMIHS, Navi Mumbai

<u>List of Electives Anatomy</u>, <u>Physiology and Biochemistry</u> <u>for Phase 3 part 1 – as per CBME syllabus are as follows</u>

Name of Department Elective Sr no 1 Department of Anatomy, 1.Karyotyping. MGM Medical college Navi 2.Neuroanatomy Mumbai **3.Developmental anatomy of genito-urinary** system 2 Department of Anatomy, 1.Anatomical basis of imaging in health. 2.Basic Genetics and future of medicine. MGM Medical College, **3.**Computer application in healthcare. Aurangabad 4.Neuroanatomy in clinical perspective 3 Department of Physiology MGM **1.Fitness testing.** 2. Nerve Conduction Study and needle Medical college Navi Mumbai **Electromyography.** Department of Physiology, MGM 1.Development of teaching skill. Medical College, Aurangabad 2. Cardiovascular autonomic neuropathy. **3.ECG.** 4 Department of Biochemistry **1.**Clinical Nutrition 2. Electives on Special techniques in MGM Medical college Navi Mumbai **Biochemistry** 5 Department of Biochemistry 1. Liver Function Test. MGM Medical College, 2.Thyroid Function Test. Aurangabad **3.**Quality Control. 4. Preanalytical variables.

ELECTIVES ANATOMY

MGM, MC, Navi Mumbai Electives- Anatomy

Anatomy Elective 1

Block 1 - Name of Elective – Medical Genetics - Karyotyping

Location of the Hospital Lab – Genetics Laboratory, 1st floor MGM Medical College, Navi Mumbai

Duration: 1 month.

Name of Internal preceptor

Dr. Anjali Sabnis& Dr. Charushila Shinde

Goal/ Competency

To develop understanding of the basic of modes of inheritance and role of karyotyping in medical genetics

Learning objectives

- 1. To enumerate commonly available genetic tests
- 2. To enumerate indications for common genetic tests
- 3. To enumerate the testing protocol for commonly performed genetic tests
- 4. To observe & describe the correct method to perform a karyotype
- 5. To present a genetic history and determine the nature of inheritance of a given simulated condition

No of students that can be accommodated - 4

Prerequisites:

- 1. Have knowledge of basic DNA & chromosome structure
- 2. Have knowledge of cell structure and cell division

Learning resources:

Handouts of resource material

Activities:

- 1. Work daily with a supervisor in observing and assisting genetic tests
- 2. Participate in case discussions
- 3. Present at least two genetic histories done by student as a case work up

Portfolio Entry:

- 1. Schedule of activities with attendance
- 2. Documentation of case discussions done
- 3. Documentation of presentation done

Logbook entry required:

- 1. Day wise entry of activities in the logbook,
- 2. Completion of posting signed by preceptor with 'M meets Expectation' grade.

Formative assessment

Based on attendance, day-to-day participation in departmental activity, performance of assigned tasks and presentation of worked up case in department

Anatomy Elective 2

Block 1 - Name of Elective – Neuroanatomy

Location of the Hospital Lab – Anatomy dissection hall, 1st floor MGM Medical College, Navi Mumbai

Duration: 1 month.

Name of Internal preceptor

Dr. Bhavana Junagade& Dr. Mini Mol

Goal/ Competency

To develop understanding of the detailed structure of nervous system through prosection and cross sectional study

Learning objectives

- 6. To enumerate parts of CNS
- 7. To describe & demonstrate external features of all parts of CNS
- 8. To describe & demonstrate features of ventricular system of brain
- 9. To describe & demonstrate deep structures of CNS as seen in sagittal, horizontal and coronal sections of different parts of CNS
- 10. To describe functional anatomy of CNS along with clinical correlation

No of students that can be accommodated - 4

Prerequisites:

1. To have basic knowledge of structure and function of parts of CNS

Learning resources:

Handouts of resource material

Activities:

- 4. Work with a supervisor during prosection of Neuro anatomy specimens
- 5. Participate in discussion sessions
- 6. Present at least two clinical case scenarios with explanation of anatomical basis

Portfolio Entry:

- 4. Schedule of activities with attendance
- 5. Documentation of prosection sessions
- 6. Documentation of clinical case scenario presentations done

Logbook entry required:

- 3. Day wise entry of activities in the logbook,
- 4. Completion of posting signed by preceptor with 'M meets Expectation' grade.

Formative assessment

Based on attendance, day-to-day participation in departmental activity, performance of assigned tasks and presentation of worked up case in department

Anatomy Elective 3

Block 1 - Name of Elective – Developmental anatomy of genito-urinary system

Location of the Hospital Lab – Anatomy Embryology Lab, 1st floor MGM Medical College, Navi Mumbai

Duration: 1 month.

Name of Internal preceptor

Dr. Pradeep Pawar& Dr. Rekha Mane

Goal/ Competency

To develop understanding of the detailed developmental anatomy of genito-urinary system

Learning objectives

- 11. To describe development of urinary system
- 12. To describe development of male & female reproductive system
- 13. To demonstrate developmental anatomy of genito-urinary system using models
- 14. To describe congenital anomalies of genito-urinary system with their developmental basis

No of students that can be accommodated - 4

Prerequisites:

1. Knowledge of Gross anatomy of genito urinary system

Learning resources:

Genito-urinary system development models

Activities:

- 7. Work with a supervisor in embryology lab to study genito-urinary system models
- 8. Participate in discussion sessions
- 9. Present at least two clinical case scenarios with explanation of developmental basis

Portfolio Entry:

- 7. Schedule of activities with attendance
- 8. Documentation of discussion sessions
- 9. Documentation of clinical case scenario presentations done

Logbook entry required:

- 5. Day wise entry of activities in the logbook,
- 6. Completion of posting signed by preceptor with 'M meets Expectation' grade.

Formative assessment

Based on attendance, day-to-day participation in departmental activity, performance of assigned tasks and presentation of worked up case in department

MGM, MC, Aurangabad Electives- Anatomy

Block/Anat/01: Neuroanatomy in Clinical Perspective

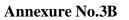
Sr. No.	Name of the Block	Block/Anat/01
1	Name of Elective	Neuroanatomy in Clinical Perspective
2	Location	Department of Anatomy
3	Name of Internal Preceptor	Dr. V. S. Mandhana Dr. Suvarna Gulanikar Dr. Sana Khan
4	Name of External Preceptor	-
5	Learning Objectives	 At the end of the session students should be able to- Recollect the Neuroanatomy at a glance. To correlate the Anatomy of nervous system and its clinical aspect. To demonstrate Anatomy of specimen like spinal cord, cerebellum and sections of cerebrum. Justify various tests, investigations and reflexes to reach the diagnosis.
6	Number of Students that can be accommodated in the Elective	6
7	Prerequisites for Elective	Basic knowledge of Neuroanatomy.
8	Learning Resources for Students	Departmental Handbook of Neuroanatomy.
9	List of Activities of Students Participation	PBLCase based studyDemo of specimens
10	Portfolio Entries Required	RelationRecord of PBLRecord of CBL
11	Log Book Entry Required	Must be maintained & assessed by preceptor
12	Assessment	Formative assessment MCQ SAQ Viva Voce
13	Other Comments	-

Annexure No.3B

MGM Medical College, Aurangabad Departmetrant of Anatomy

Preclinical Elective: Block/Anat/02: Anatomical basis of imaging in health care

Name of block	Block 2 Anatomy
Name of Elective	Anatomical basis of imaging in health
Location	Department of Anatomy
Name of internal preceptor	Dr Gautam A Shroff
	Dr Smita Shinde
	Dr Shamama Sk
Name of external preceptor	NA
Learning objectives	 Able to explain basic principle of imaging techniques. Able to describe different use of each technique and its advantages and disadvantages. Able to explain technique and able to identify structures in chest X-ray with its clinical application. Able to identify anatomical structure in brain MRI. Able to explain structures identified in USG Abdomen and Obstetric ultrasound and fetal biometry. Able to identify X-ray of long bone with its clinical importance. Able to identify Structure identify for MRI of joints. Able to identify paranasal sinuous in X-ray and CT scan. Able to brief about CECT and HRCT
Number of students that can be accommodated in the elective	6
Prerequisites for elective	Fundamental knowledge of medical terminology and disease process
Learning resources for students	Handbook provided by department
List of activities of student participation	Learn activities so as to improve performance and use effective time and maintain accuracy.
	Expected initiative to identify structure and able to apply for type of investigation to be suggested. Complete project and presentation.
Portfolio entries required	Expected initiative to identify structure and able to apply for type of investigation to be suggested.
Portfolio entries required Log book entry required	Expected initiative to identify structure and able to apply for type of investigation to be suggested. Complete project and presentation. Reflections and what learned
•	Expected initiative to identify structure and able to apply for type of investigation to be suggested. Complete project and presentation. Reflections and what learned Keeping record of activities.



MGM Medical College Aurangabad Department of Anatomy

Preclinical Elective Block/Ant/03: Basic Genetics and Future of Medicine

Sr. No.	Name of the Block	Block/03/ Anatomy
1	Name of Elective	Basic Genetics and Future of Medicine
2	Location	Department of Anatomy
3	Name of Internal Preceptor	Dr. Gautam Shroff
		Dr. Savita Kadam
		Dr. Poonam Autade
4	Name of External Preceptor	NA
5	Learning Objectives	 Able to Explain basic principles of genetics & genetic variation. Able to tell various branches of genetics. Able to describe concept of genetic counselling & methods of genetic screening with its advantages & disadvantages. Able to explain ethical issues with genetic testing & counselling.
	Number of Students that can be accommodated in the Elective	6
7	Prerequisites for Elective	Fundamental knowledge of genetics
8	Learning Resources for Students	Departmental handbook of medical genetics.
9	List of Activities of Students Participation	 Case based study. Application of basics genetic. principals. Appropriate use of basic genetic screening
10	Portfolio Entries Required	 Participation in various activities and able to explain future of genetics.
11	Log Book Entry Required	Must be maintained & assessed by preceptor
12	Assessment	 Formative assessment. Interactive session about genetics screening and use of modern-day medication.
13	Other Comments	-

Annexure No.3B

MGM Medical College,

Aurangabad Department of

Anatomy

Preclinical Elective: Block/Anat/04: Computer application in healthcare

Name of block	Block 4 Anatomy
Name of Elective	Computer application in healthcare
Location	Computer Lab in Anatomy Department
Name of internal preceptor	Dr Gautam A Shroff
	Dr Minakshi Ghuge
	Mr Pawan Sonawane
Name of external preceptor	NA
Learning objectives	Able to explain use of computer technology and
	information technology in healthcare.
	Able to select hardware and software required for cost
	effectiveness.
	Able to utilize windows tools.
	Able to do edit and retrieve media files.
	Effectively use social media and conduct survey.
	Able to demonstrate and use office application for day
	to day activity.
	Able to utilize literature search by using various search
	engines.
Number of students that can be	6
accommodated in the elective	
Prerequisites for elective	Fundamental knowledge of computers.
Learning resources for students	Handbook provided by department
List of activities of student	Careful handling of instrument and maintenance.
participation	Learn activities so as to improve performance and use
	effective time and maintain accuracy.
	Expected initiative to solve day to day issue with help of
	IT and AI.
	Complete project and presentation.
Portfolio entries required	Reflections and what learned
	Keeping record of activities.
	Exploring new innovative methods to enhance speed
	and effectiveness.
Log book entry required	Logbook must be maintain and assessed by preceptor
Assessment	Formative assessment:
	Participation, Solving assignments, Demonstrating soft
	skills
Other comments	

ELECTIVES Physiology

MGM, MC, Navi Mumbai Electives- Physiology

Fitness testing module

Block 1 elective

Annexure No. 3C

Department of Physiology

MGM Medical College, Navi Mumbai

(Physiology in collaboration with School of Physiotherapy, NM)

Name of the elective: FITNESS TESTING

Location of the facility

Department of Physiology

MGM School of physiotherapy Navi Mumbai, MGMIHS

Centre of human movement science

Name of internal preceptor: from Department of Physiology, MGM MC NM

Dr.Priyanka Rane, Associate Professor

Dr.David Isaac, Assistant Professor

Name of external preceptor: MGM School of physiotherapy Navi Mumbai, MGMIHS

Dr.Bela Agarwal, Professor

Learning objectives

- 1. Enlist and explain components of physical fitness test
- 2. Observe conduction of of various test on patients

3.Self evaluation of fitness

- 4. Evaluation of years for fitness
- 5.Perform under guidance various test for fitness

6.Understand the significance of the test for management of of non communicable diseases in normal and in patient population

Number of students that can be accommodated: 6

Prerequisites for the elective:

- 1. Knowledge of nerve muscle, cardiovascular and respiratory physiology
- 2. Effect of exercise on the cardiovascular and respiratory system
- 3. Different types of exercise
- 4. Student must be physically fit

Learning resources:

Textbook of Physiology Guyton, GK Pal, Indu Khurana, Mc Ardle

American College of Sports Medicine

List of activities in which two students will participate:

- 1. Muscle strength
 - a. Upper limb handgrip and Pinch
 - b. Lower limb treadmill
- 2. Endurance testing 6 minutes walk
- 3. Agility for flexibility testing
- 4. Body composition
- 5. Cardiorespiratory

Portfolio entries required:

- Schedule followed

- Record of observations
- Record of self evaluation
- Record of performance on different persons(any 2)

Log Book entry:

- satisfactory completion of posting by preceptor

Assessment:

- 75% attendance with active participation
- Successful verification of required Log Book entry and portfolio
- Successful completion of the posting as certified in the logbook with a "Meets" expectation 'M' grade.

Block 2 elective

Name of Elective: Nerve Conduction Study and needle Electromyography.

Location of the Hospital Lab:

Neurlab, 2nd floor MGM Hopsital, Navi Mumbai

Duration: 1 month.

Name of Internal preceptor

Dr. Aarthika Sreenivasan

Dr. Yashoda Kattimani (yet to ask madam)

Goal/ Competency:

To develop understanding of the basics of NCS and EMG study and its application in a clinical or research setup.

Learning objectives:

Describe the innervation and course of nerves of upper and lower limbs.

Describe the physiology of nerve conduction and muscle contraction.

Explain the basic methodology of NCS.

Explain the basic methodology of EMG.

Describe the various parameters assessed on NCS

Learn patient communication skills

Learn to correlate clinical findings with NCS EMG findings.

No of students that can be accommodated: 6

Prerequisites:

1. Anatomy of Upper limb and lower limbs Nerves and muscles.

- 2. Physiology of Action potential
- 3, Neuro-muscular transmission
- 4. Physiology of Skeletal muscles contraction

Learning resources:

PDF / Handouts of resource material

Practical physiology textbooks

Activities:

1. Group discussion/ Seminar -on Innervation and course of nerves of upper & lower limbs.

2. Group discussion/ Seminar -on Physiology of nerve conduction and muscle contraction

3. Observe the recording of NCV & EMG of different cases.

4. Observation and Interpretation of Lab records of NCV of common diseases, to differentiate between normal and abnormal parameter.

5. Explain and prepare the patient for NVC recording

6. Interpret and correlate clinical findings with NVC & EMG findings of patients of common cases- Diabetic neuropathy, Carpel tunnel syndrome (Minimum 2 cases)

Portfolio Entry:

- 1. Schedule of Activity
- 2. Pictures and Observation report of Cases seen(Minimum 2)

3. Pictures and case report & lab report of common cases like - Diabetic neuropathy, Carpel tunnel syndrome(Minimum 2)

Logbook entry required:

Day wise entry of activities in the logbook, with completed posting with 'M' Expectationgrade signed by preceptor.

MGM, MC, Aurangabad **Electives-** Physiology

Annexure No. 3D

Name of Block	Block 1
Name of Elective	Development of teaching skill
Location of hospital Lab or research	MGM Medical college hospital
facility	
Name of internal preceptor(s)	Dr Bhakti Dabir, Dr Rahul Surve
Name of external preceptor if applicable	N/A
Learning objectives of elective	1. To obtain experience in teaching to 1 st MBBS students
	2. To obtain experience in demonstration to the students
Number of students that can be	6
accommodated in this elective	
Prerequisites for elective	Should go through different teaching methods from MET book of Rege
List of activities of student participation Learning Resources Portfolio entries required Log book entry required	 Participate in teaching activities of other faculties of department Participate in academic programs of the department Write up the notes of allotted topic for teaching Present at least two topics in microteaching Conduction of practical topic to students With teaching and demonstration Physiology textbook and practical book Teaching Notes entries; Presentations done Satisfactory completion of posting
Assessment	authenticated by preceptor 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	

Annexure No. 3D

Name of Block	Block 1	
Name of Elective	Cardiovascular autonomic neuropathy (CAN)	
Location	Autonomic & vascular function lab, Physiology dept. MGM Medical College. Aurangabad.	
Name of Internal Preceptor	1.Dr Sangita Sarkate2. Dr F.B. Irani3.Dr Saba Khan	
Name of External Preceptor	NA	
Learning Objectives of elective	 To enumerate the different tests under Autonomic function test. To enumerate the indication for performing Autonomic function test. To perform Autonomic reactive tests for parasympathetic & sympathetic nerves. To list the other tests performed on Diabetes Risk Profiler. 	
Number of students that can be accommodated	04	
Pre requisites for this elective	 Knowledge of recording vital parameters Basic knowledge of nerve supply to circulatory system 	
List of activities of student participation	 Work daily under supervisor. Collecting vital parameters of subjects. Under observation collecting data related to CAN as per protocol. Tabulating data in worksheet Drawing analysis of data & summary of work daily. 	
Learning resources	Departmental handbook	

Portfolio entries required	 Daily documentation of data collected in worksheet. At least 04 subjects autonomic function data to be recorded. Analysis of data to be done.
Logbook entry required	Satisfactory completion of posting as given by preceptor and meet exception of 'M' grade
Assessment	 Attendance Verified portfolio entries Completion of posting as certified in log book. Completion of assigned task and presentation of analysis of data in department as seminar.

Name of Block	Block 1	
Name of Elective	ECG	
Location	ECG lab, Physiology dept. MGM Medical College. Aurangabad.	
Name of Internal Preceptor	1.Dr Sangita Phatale2.Dr Kirti Sarkate3. Dr Saroj Mulkhede	
Name of External Preceptor	NA	
Learning Objectives of elective	 To demonstrate application of different instruments used for ECG recording. To enumerate the indication for performing ECG. To perform ECG by applying different leads To calculate details of each wave, HR & vector from graph drawn. 	
Number of students that can be accommodated	04	
Pre requisites for this elective	 Knowledge of ECG Basic knowledge of cardiac potentials 	
List of activities of student participation	 6. Work daily under supervisor and independently recording ECG. 7. Collecting data related to ECG as per protocol. 8. Labeling ECG as normal & abnormal 9. Tabulating data in worksheet 10. Drawing summary of everyday work 	
Learning resources	Departmental handbook	
Portfolio entries required	4. Daily documentation of data collected in worksheet.5. At least 04 subjects ECG data to be recorded.6. Analysis of data to be drawn	
Logbook entry required	Satisfactory completion of posting as given by preceptor and meet exception of 'M' grade	

Assessment	 5. Attendance 6. Verified portfolio entries 7. Completion of posting as certified in log book. 8. Completion of assigned task and presentation of analysis
	of data in department as seminar.

Electives Biochemistry

MGM, MC, Navi Mumbai Electives- Biochemistry

Annexure No. 3D

Elective posting:- I Name of Elective: Clinical Nutrition

Location: Department of Biochemistry, MGM MC, Navi Mumbai

Duration: 15 days.

Name of Internal preceptor

Dr. Santosh Gawali

Goal/ Competency:

To impart knowledge and develop capacities of the students in the area of Clinical Nutrition and Dietetics and its application in Medical Nutrition Management.

Learning objectives:

- 1. Describe the Nutrition assessment, Nutrition diagnosis and Nutrition intervention
- 2. To calculate Calorie Intake using 24-hour Dietary Recall and Food Frequency Questionnaire
- 3. Describe the Dietary Diagnosis and need of therapeutic diet
- 4. Describe diet in Pregnancy and Lactation
- 5. Describeenteral and parenteral feeding,
- 6. DescribeDietary management in common diseases
- 7. Describe role of Intermittent fasting in Diet
- 8. Learn patient communication skills
- 9. Learn Diet Prescription in common metabolic diseases and lifestyle disorders.

No of students that can be accommodated: 7

Prerequisites:

- 1. Metabolism of carbohydrates, proteins and Lipids.
- 2. Basic Biochemistry vitamins, minerals and Nutrition
- 3. Metabolic and endocrine alterations during pregnancy and lactation

4. Pathophysiology of metabolic diseases

Learning resources:

PDF / Handouts of resource material

Krause's Food and Nutrition Therapy 2010, 12th Edition

Activities:

1. Group discussion/ Seminar -on nutrition assessment, and Balanced Diet.

2. Lecture sessions – on, Dietary Diagnosis, 24-hour Dietary Recall, Food Frequency

Questionnaire and Therapeutic diet

3. Group activity - on Calorie Intake calculation.

4. Observation session at Nutrition OPD at MGM Hospital kamothe to understand the applications and working pattern.

5 Group discussion/ Seminar – on metabolic alteration in Pregnancy and Lactation and common diseases

6. Lecture sessions – on enteral and parenteral feeding, Dietary management in common diseases and Intermittent fasting

7. Group activity- on Dietary Prescriptionfor common metabolic diseases.

Portfolio Entry:

1. Schedule of Activity

2.case scenarios, laboratory reports

3. Diet chart preparation of common cases like –Diabetes mellitus, Hypertension, metabolic syndrome, Pregnancy and Lactation.

Logbook entry required:

Day wise entry of activities in the logbook, certified with completed posting with 'M' Expectationgrade signed by preceptor.

Elective posting:- II

Electives on Special techniques in Biochemistry

Name of Block	Block 1
Name of Elective	Special techniques in Biochemistry
Location of hospital lab or research facility	Biochemistry Department MGM MC, Navi Mumbai
Name of internal preceptor(s)	Co-ordinator- Dr. Kavita More
Name of external preceptor(ifany)	MGM School of Biomedical sciences and central Research lab
Learning objectives of the elective	 At the end of session, the student should be able to 1. Demonstrate and perform Paper Chromatography and result interpretation 2. Demonstrate and hands on training and result interpretation of gel electrophoresis 3. Demonstrate HPLC and ELISA tests 4. Interpretation of HPLC and ELISA results 5. Demonstration of Extraction of DNA and hands on training of extraction of DNA
Number of students that can be Accommodated in this selective	5
Prerequisites for the elective	Covid 19 vaccination and other immunization as required in our set up
Learning resources for students	Handouts related to biochemical and molecular techniques to be provided

Listof activitiesinwhichthestudentwill Participate 1 st week	Participate in lecture related to Biochemical and Molecular techniques covered in objectives and perform sample preparation 1.To be able to interpret results of chromatography 2.To be able to interpret electrophoresis of an unknown
2 nd week	given case 3. To be able to interpret HPLCand ELISA test results of an
3 rd week	unknown given case 4 To be able to extract the DNA from biological sample
4 th week	
Portfolioentries required	1.Documentation of lectures attended 2. Documentation of interpretation of results made by the students
Logbookentryrequired	satisfactory completion of posting by preceptor
Assessment	75% attendance with active participation
	- Successful verification of required Log Book
	entry and portfolio
	- Successful completion of the posting as
	certified in the logbook with a "Meets"
	expectation 'M' grade.
Othercomments	

MGM, MC, AURANGABAD Electives- Biochemistry

Liver Function Test

1	Name of Block	Block 1
2	Name of Elective	Liver Function Test
3	Location of hospital lab or research facility	MGM, MC, AURANGABAD. Central Clinical Laboratory
4	Name of internal preceptor(s)	Dr Benazeer Jadhav, Dr. Hina Ansari Dr. Ashlesha Jambure
5	Name of external preceptor (if any)	N/A
6	Learning objectives of the elective	 to demonstrate the conduct of commonly available biochemical tests in a central clinical laboratory to enumerate indications for Liver Function tests To enumerate the testing protocol for commonly performed Liver Function tests to demonstrate the correct method to perform Liver Function Test to present family and past history and determine the nature of disease of a given condition to interpret the test result of liver function test
7	Number of students that can be accommodated in this elective	4-6
8	Prerequisites for the elective	Necessary immunizations, Universal precaution certification
9	Learning resources for students	Departmental handbook provided
10	List of activities in which the student will participate	 Work daily with a supervisor in observing, assisting and performing liver function tests Participate in departmental education activities Present at least two tests done by student as a case work up
11	Portfolio entries required	 Documentation of worked up cases Documentation of presentation done
12	Log book entry required	Completion of posting signed by preceptor with a "meets expectation '(M)'grade"
13	Assessment	Formative: attendance; day-to-day participation in departmental activity; performance of assigned tasks and presentation of worked up case in

department

Table 1: Template for planning learning experiences in electives <u>Thyroid Function Test</u>

Annexure No. 3E

1	Name of Block	Block 1
2	Name of Elective	Thyroid Function Test
3	Location of hospital lab or research facility	MGM, MC, AURANGABAD.
		Central Clinical Laboratory
4	Name of internal preceptor(s)	Dr D.V.Bhale, Dr. Manjusha Hivre
5	Name of external preceptor (if any)	N/A
6	Learning objectives of the elective	 to demonstrate the conduct of commonly available biochemical tests in a central clinical laboratory to enumerate indications for Thyroid Function tests To enumerate the testing protocol for commonly performed Thyroid Function tests to demonstrate the correct method to perform Thyroid Function Test to present family and past history and determine the nature of disease of a given condition to interpret the test result of Thyroid function test
7	Number of students that can be accommodated in this elective	4-6
8	Prerequisites for the elective	Necessary immunizations, Universal precaution certification
9	Learning resources for students	Departmental handbook provided
10	List of activities in which the student will participate	 Work daily with a supervisor in observing, assisting and performing liver function tests Participate in departmental education activities Present at least two tests done by student as a case work up
11	Portfolio entries required	 Documentation of worked up cases Documentation of presentation done
12	Log book entry required	Completion of posting signed by preceptor with a "meets expectation '(M)'grade"
13	Assessment	Formative: attendance; day-to-day participation in departmental activity; performance of assigned tasks and presentation of worked up case in department

Annexure No. 3E

Table 1: Template for planning learning experiences in electives Quality Control

1	Name of Block	Block 1
2	Name of Elective	Quality Control
3	Location of hospital lab or research facility	MGM, MC, AURANGABAD. Central Clinical Laboratory
4	Name of internal preceptor(s)	Dr. Ruta Anantgaonkar Mr. Sanjay Guddetwar
5	Name of external preceptor (if any)	N/A
6	Learning objectives of the elective	 to demonstrate the conduct of Quality control for various biochemical tests in a central clinical laboratory to enumerate indications for Quality control To enumerate the testing protocol for commonly performed Quality control assessment to demonstrate the correct method to perform Quality control assessment to Know various parameters for Quality control assessment to interpret the result of various charts for Quality control assessment
7	Number of students that can be accommodated in this elective	4-6
8	Prerequisites for the elective	Necessary immunizations, Universal precaution certification
9	Learning resources for students	Departmental handbook provided
10	List of activities in which the student will participate	 Work daily with a supervisor in observing, assisting and performing Quality control assessment Participate in departmental education activities Present Quality control assessment for at least two tests done bystudent as a case work up
11	Portfolio entries required	 Documentation of work done in laboratory Documentation of presentation done
12	Log book entry required	Completion of posting signed by preceptor with a "meets expectation '(M)'grade"
13	Assessment	Formative: attendance; day-to-day participation in departmental activity; performance of assigned tasks

Annexure No. 3E

Table 1: Template for planning learning experiences in electives Preanalytical variables

1	Name of Block	Block 1
2	Name of Elective	Preanalytical variables
3	Location of hospital lab or research facility	MGM, MC, AURANGABAD. Central Clinical Laboratory
4	Name of internal preceptor(s)	Dr D.M. Vaishnav ,Dr. Hina Ansari Dr. Ashlesha Jambure
5	Name of external preceptor (if any)	N/A
6	Learning objectives of the elective	 to demonstrate the conduct of various techniques for blood collection, transport and storage in a central clinical laboratory to enumerate various pre-analytical variables To enumerate the blood collection, transport and storage protocol to demonstrate the correct method to perform venipuncture to Know various parameters that can be affected by pre-analytical variables
7	Number of students that can be accommodated in this elective	4-6
8	Prerequisites for the elective	Necessary immunizations, Universal precaution certification
9	Learning resources for students	Departmental handbook provided
10	List of activities in which the student will participate	 Work daily with a supervisor in observing, assisting and performing blood collection, transport and storage in a central clinical laboratory Participate in departmental education activities
11	Portfolio entries required	 Documentation of work done in laboratory Documentation of presentation done
12	Log book entry required	Completion of posting signed by preceptor with a "meets expectation '(M)'grade"
13	Assessment	Formative: attendance; day-to-day participation in departmental activity; performance of assigned tasks

Electives Pharmacology

Annexure-14A of AC-46/2023

• Annexure 1A: Pharmacovigilance (Block 1)

Name of Block	Block 1
Name of Elective	Pharmacovigilance
Location of hospital lab or research facility	MGM Medical College and Hospital, Navi Mumbai
Name of Internal preceptorName of external preceptor (if any)	Dr Prakash Khandelwal, Prof., & HOD, Pharmacology Dr Deepanjana Dass, Assistant Professor, Pharmacology Nil
Learning Objectives	 At the end of the Elective the learner shall be able to To identify and report Adverse Drug Reactions (ADRs) in clinical care setup through patient records. To fill the suspected Adverse Drug Reactions Reporting Form of Indian Pharmacopoeia Commission, Govt. Of India. To perform causality analysis of the reported Adverse Drug Reactions (ADRs). To upload the ADRs in Vigiflow Software
Number of students that can be accommodated in this elective	10
Prerequisites for the elective	Familiarity with common terminologies of ADR and its types, Microsoft excel.
Learning resource for students	 Textbook of Pharmacovigilance by SK Gupta and Shushma Srivastava, Jaypee Publications, latest edition. Fundamentals of Pharmacovigilance by Sumit Verma and Yogesh Gulati, Paras Medical Publications, latest edition. Textbook of Pharmacovigilance concept and practice by Guruprasad Mohanta, Prabal Kumar Manna. Pharma Med Press, latest edition. E-Resources – Available at: https://www.who-umc.org/media/165164/3-working-with-data-entry .pdf E-Resources – Vigiflow user guide. Available at: https://www.adr.who-umc.org/userguide.pdf
List of activities in which the student will participate	 Participate in following teaching learning activities Pharmacovigilance Lectures Introduction, historical development and scope of Pharmacovigilance. Introduction to ADR, Definition and Types of ADR Pharmacovigilance Programme of India and Global

Other Comments	Nil
	Reflection Writing
	Participation in group discussions and team activitiesPresentation of seminars, worked up cases
	 Successful completion of required portfolio and log book entries Participation in group diagonations and team activities
Assessment	• Documentation of attendance
Log book entry required	• Completion of activities signed by preceptor with a "meets expectation '(M)'grade"
	 Documentation of presentations done Documentation of self-directed learning as summary and reflection
	 Documentation of worked up (cases on drug interactions) Documentation of procentations dans
	• Documentation of worked up cases (Vigiflow entries)
	severity of an ADR)
	 Documentation of worked up cases (Assessment of seriousness and
	• Documentation of worked up cases (ADR reporting of reported cases)
	 Documentation of worked up (Narrative writing) Documentation of worked up asses (ADP reporting of reported)
	ADRs)
Portfolio entry required	• Documentation of worked up (causality assessment of suspected
	Cases on Drug interactions causing ADK
	 Electronic data entry (VIGIFLOW) Cases on Drug interactions causing ADR
	• Assessment of seriousness and severity of an ADR
	• ADR reporting case scenario
	 Narrative writing
	 Causality Assessment
	• Setting a Pharmacovigliance Centre, inspection and audit <i>Practical's/Group Activity</i>
	 Medication error and medication misuse Setting a Pharmacovigilance Centre, inspection and audit
	• Vulnerable population – extremes of age, pregnancy and lactation
	 Drug interactions and Food Drug interactions
	 Electronic Data entry in Vigiflow
	• ADR Report analysis, action taken
	filling of ADR forms
	 Causality Assessment and Signal Detection Parts of the Suspected Adverse Drug Reaction Reporting Form and
	 Role of epidemiological studies in Pharmacovigilance Causality Assessment and Signal Detection
	• Pharmacovigilance Methods
	Le Uhemmeessaa Metheda

Annexure-14B of AC-46/2023

Name of Block	Block 1
Name of Elective	Clinical Research
Location of hospital lab or research facility	MGM Medical College and Hospital, Navi Mumbai
Name of Internal preceptor	Dr Ipseeta Ray, Professor, Pharmacology Dr Pradeep Jadhav, Associate Professor, Pharmacology
Name of external preceptor (if any)	Nil
Learning Objectives	 At the end of the Elective the learner shall be able to Understand the key phases of drug development Gain Knowledge on the basics of Clinical Research Methodology Understand the Ethical Regulations and Guidelines governing Clinical Research Get hands on experience on drafting Informed Consent Documents Get hands on training on how to design a Clinical Research Protocol Critical Appraisal of Published Research Article
Number of students that can be accommodated in this elective	10
Prerequisites for the elective	None
Learning resource for students	 SK Gupta. Basic Principles of Clinical Research and Methodology. Jaypee Brothers, Medical Publishers Pvt. Limited ICMR National Ethical Guidelines for Biomedical Research, 2017 Morris B, Sharma P, Bennett P. Clinical Pharmacology. Publisher: Elsevier – Saunders, Mosby, Churchill
List of activities in which the student will participate	• Participate in following teaching learning activities
	Clinical Pharmacology Lectures • Drug development process • Preclinical Studies

• Annexure 1B: Clinical Research (Block 1)

	 Phases of Clinical Trials Ethical Regulations and Guidelines governing Clinical Research Basics of Clinical Research Methodology Elements of Clinical Research Protocol Informed Consent Document Institutional Ethics Committee Critical Appraisal of Published Literature Practical's/Group Activity Drafting of Informed Consent Documents and Assent Form Designing of Clinical Research Protocols Critical Appraisal of Published Research Articles
Portfolio entry required	 Documentation of lectures and practical sessions attended Documentation and presentation of worked up Informed Consent Documents Documentation and presentation of worked up Assent form Document Documentation and presentation of worked up Clinical Research Protocol Documentation and presentation of worked up critical appraisal of published article Preparation of Summary Report of Elective Module Documentation of Reflective Writing
Log book entry required	 Completion of activities signed by preceptor with a "meets expectation '(M)'grade"
Assessment	 Documentation of attendance Successful completion of required portfolio and log book entries Presentation of worked up cases, seminars Participation in group discussions and team activities Reflection Writing
Other Comments	Nil

Department of Immunohematology and Blood Transfusion

Template for planning learning experiences in electives

Elective -02

Sr.	Electives	PART 1
No.		
1.	Name of Block	Block -01 (Blood Centre)
2.	Name of Elective	Essentials of Blood donation camp (Donor screening,
		blood donation camps, blood grouping)
3.	Location of hospital lab or research	Dept of Immunohematology and Blood Transfusion
	facility	MGM MEDICAL COLLEGE AND HOSPITAL, KAMOTHE
4.	Name of internal preceptor(s)	Dr. Shweta Dhote
		Dr. Madiha Shaikh
5.	Name of external preceptor (if any)	NA
6.	Learning objective of the elective	1) Knowledge about criteria for donor screening.
		2) Knowledge about hemoglobin estimation methods
		used for donor screening.
		3) Knowledge about requirement of blood donation
		camp.
		4) To be able to interpret results of forward and
		reverse cell grouping.
7.	Number of students that can be	04
	accommodated in this elective	
8.	Prerequisite for the elective	Necessary immunization
9.	Learning resources for students	1) DGHS manual handout
		2) GSR 10 th March 2020 handout (for donor screening)
		3) Standard operating procedure handout.
10.	List of activities in which the student will	1) Daily work with resident doctors in observing and
	participate	assisting in related activities.
		2) Participating in blood donation camps and PG
		activities organized by the department.
		3) Present a seminar at the end of the elective(power
11	Deutfelie entries required	point presentation)
11.	Portfolio entries required	1) Weekly worksheet to be completed provided by the
		preceptor
12.	Logbook entry required	2) Submission of activities done during the elective. Completion of posting signed by preceptor with a "
12.	Logbook entry required	
13.	Assessment	meets expectation '(M)' grade Formative: minimum 75% attendance, day to day
15.	Assessment	participation in departmental activities
		Performance of assigned tasks and presentation of
		data as power point.
14.	Other comments	Students who are found to be extremely well oriented
14.	other comments	and interested can be advised to go through the FDA
		D&C act, regulations and requirements for setting up a
		blood centre/ storage centre.
		שוטטע נפוונובן גנטומצב נבוונוב.

Department of Immunohematology and Blood Transfusion

Template for planning learning experiences in electives

Elective -02

Sr.	Electives	PART 2
No.	Lieutives	
1.	Name of Block	Block -01 (Blood Centre)
2.	Name of Elective	Fundamentals of Blood component (Blood component
		preparation and storage, pre-transfusion testing, adverse effects
		of transfusion)
3.	Location of hospital lab or research	Dept of Immunohematology and Blood Transfusion
	facility	MGM MEDICAL COLLEGE AND HOSPITAL, KAMOTHE
4.	Name of internal preceptor(s)	Dr. Shweta Dhote
		Dr. Madiha Shaikh
5.	Name of external preceptor (if any)	NA
6.	Learning objective of the elective	1) Knowledge about steps of component separation, storage and
		QC criteria of components.
		2) Knowledge about transfusion triggers for components.
		3) To be able to perform pre-transfusion testing
		4) Knowledge about adverse transfusion reaction
7.	Number of students that can be	04
	accommodated in this elective	
8.	Prerequisite for the elective	Necessary immunization
9. Learning resources for students 1) DGHS manual handout		,
		2) blood requisition form for transfusion triggers
		3) Standard operating procedure
		4) Harmening, 7 th Edition, Part 2, ch no. 11, 14 & 15
10.List of activities in which the student1) Daily work with related activitieswill participaterelated activities		1) Daily work with resident doctors in observing and assisting in related activities
		2) Participating in PG activities organized by the department
		3) Present a seminar at the end of the elective (power point
		presentation)
11.	Portfolio entries required	1) Weekly worksheet to be completed provided by the preceptor
		2) Submission of activities done during the elective.
12.	Logbook entry required	Completion of posting signed by preceptor with a " meets
		expectation '(M)' grade
13.	Assessment	Formative: minimum 75% attendance, day to day participation
		in departmental activities
		Performance of assigned tasks and presentation of data as
		power point
14.	Other comments	Students who are found to be extremely well oriented and
		interested can be advised to go through Laboratory information
		system, Quality management in the blood centre and Federal
		Regulatory requirements.

Department of Pathology

(Elective 1 – Automation & QC in Hematology)

Table 2: Template for planning learning experiences in electives

Sr. No.	Electives		
1.	Name of Block	Block - 01	
2.	Name of Elective	Quality control in Haematology (Automation and QC in hematology)	
3.	Location of hospital lab or research facility	Central Laboratory, MGM Medical College & Hospital, NM	
4.	Name of Internal preceptor(s)	Dr. Ujwala Maheshwari Dr. Manisha Tambeka	
5.	Name of external preceptor (if any)	N/A	
6.	Learning objectives of the elective	 Knowledge about automation & quality control in hematology. To be able to calculate and use Quality control statistics Knowledge about additional quality control statistics (mean & SD) Pre analytic limp of Understanding. 	
7.	Number of students that can be accommodated in this electives	04	
8.	Prerequisites for the elective	 NABL 15189 booklet available online Handout/ Booklet prepared by internal preceptor 	
9.	Learning resources for students	1) Handout/ Booklet prepared by internal preceptor	
10.	List of activities in which the students will participate	 work daily with resident doctors in observing , assisting and performing the related activates Participating in related PG activities organized by department Present a Seminar at the end keeping the objectives in mind (Power Point Presentation) 	
11.	Portfolio entries required	 Daily worksheet to be completed provided by the preceptor. Presentation of documentation. 	
12.	Log book entry required	Completion of posting signed by preceptor with a "meets expectation'(M)' garde"	
13.	Assessment	Formative: attendance, day-to-day participation in departmental activity. Performance of assigned tasks and presentation of fortnight data as power point	
14.	Other comments	Students who are found to be extremely well oriented and interested can be advised to take the next level (03 day workshop on NABL 15189)	

Department of Pathology

(Elective 2 – HPLC)

Table 2: Template for planning learning experiences in electives

Sr. No.	Electives		
1.	Name of Block	Block - 01	
2.	Name of Elective	High Performance Liquid Chromatography In Haemolytic Anemia	
3.	Location of hospital lab or research facility	Central Laboratory, MGM Medical College & Hospital, NM	
4.	Name of Internal preceptor(s)	Dr. Shilpi Sahu Dr. Priyanka Jadhav	
5.	Name of external preceptor (if any)	N/A	
6.	Learning objectives of the electives	 Interpretation of charts of HPLC in Hemolytic anemina. To perform test of sickling, nestoff test, and osmotic fragility test 	
7.	Number of students that can be accommodated in this electives	04	
8.	Prerequisites for the elective	Universal safety precaution certification.	
9.	Learning resources for students	1) Handout/ Booklet prepared by internal preceptor	
10.	List of activities in which the students will participate	 Work daily with resident doctors in observing , assisting in HPLC Performing sickling, 	
11.	Portfolio entries required	 Daily worksheet to be completed provided by the preceptor. Presentation of documentation. 	
12.	Log book entry required	Completion of posting signed by preceptor with a "meets expectation'(M)' garde"	
13.	Assessment	Formative: attendance, day-to-day participation in departmental activity. Performance of assigned tasks and presentation of fortnight data as power point	
14.	Other comments	Students who are found to be extremely well oriented and interested can be advised to Hematology automatic conference.	

TOTAL TIME IN HOURS : 6864

Clinical postings	:	132 weeks
Total	:	176 weeks

Electives:

Block - 1 of 15 days may be offered in Final MBBS part 1,

- Subjects: Anatomy/ Physiology/ Biochemistry/Pathology/ Blood Banking/ Microbiology/ Pharmacology/ Forensic Medicine and Toxicology.
- Block 2 of 15 days may be offered in Final MBBS part 2,
- Subjects: Gen. Medicine and allied, Gen. Surgery and allied.

KEY CHANGES FROM GMER 2019:

- 1. Theory sessions of Dermatology, Radiology, Psychiatry, Anesthesiology, Respiratory Medicine shifted to final phase.
- 2. Theory sessions of Otorhinolaryngology and Ophthalmology reduced and remaining sessions shifted to final phase.
- 3. Clinical posting of Otorhinolaryngology as well as Ophthalmology from Phase-II of MBBS has been shifted to Phase-III part I and part II
- 4. Newer elements of Pandemic Module, and Family Adoption Programme in Community Medicine included.
- 5. No postings during electives.
- 6. Clinical Postings have been re-scheduled to facilitate learning and help students cope up with introduction of common national exit test.
- 7. No supplementary batches. Supplementary exams to be conducted by the end of one (1) month of results of regular exams. Results be declared within a fortnight of the end of last exam.

These changes are proposed to ensure:

- 1. Ease of rotation of students in the posting and ensure minimum number of students in each posting.
- 2. Provide increased hours and shifting posting to final year in some allied subjects based on feedback by faculty from these departments.

ELECTIVES MICROBIOLOGY

ANNEXURE NO -1A

Mahatma Gandhi Mission's College. N-6 CIDCO, Aurangabad – 431003 DEPARTMENT OF MICROBIOLOGY

Annexure-17A of AC-

PROPOSAL FOR ELECTIVE COURSE [I] IN BLOCK - 1

- 1. NAME OF ELECTIVE : Biomedical waste management
- 2. Eligibility: MBBS students before commencement of 3rd MBBS Part II.

3. COURSE DESCRIPTION:

It is a short certificate course designed to provide adequate knowledge to UG MBBS Students regarding biomedical waste (BMW) classification, segregation, treatment and disposal methods so as to increase their awareness to reduce the impact of waste on environment & community. To motivate and sensitize the students towards reducing the chances of getting infections and accidental injuries due to improper handling of BMW.

4. LEARNING OBJECTIVES:

- 1) This elective posting will provide adequate knowledge to MBBS Students regarding impact of improper disposal of biomedical waste (BMW) on environment & community.
- 2) Will provide knowledge about BMW classification, segregation, treatment and disposal methods
- 3) To Motivate and sensitize the students for preventing the chances of getting infections and accidental injuries due to improper handling of BMW.

5. COURSE OUTCOMES:

- ***** At the end of this course MBBS student shall be able to:
 - 1) Classify & segregate BMW as per BMW management & handling rules.
 - 2) Supervise the pretreatment & disposal of BMW.
 - 3) To explain the importance of proper disposal so as to reduce the impact of waste on environment & community and to reduce accidental injuries.

6. COURSE DURATION: 2 weeks - before commencement of 3rd MBBS Part II.

- 7. INTAKE CAPACITY: 05 students.
- 8. COURSE COORDINATOR: Dr Shraddha Naik
- 9. COURSE FACILITATORS: All Teaching faculties.
- 10. TEACHING HOURS : Total 12 hours

<u>Annexure 1</u>

Block 1 learning experience: Para clinical -- Subject: Microbiology, MGM, Aurangabad.

Name of Block	Block 1		
Name of Elective	Biomedical Waste management.		
Eligibility	MBBS students before commencement of 3 rd MBBS Part II.		
Location of hospital lab or research facility	Department of Microbiology, MGM Medical college & Hospital, Aurangabad.		
Name of internal preceptor(s)	Dr Shraddha Naik.		
Name of external preceptor (it applicable)	Nil		
Learning objectives of elective Number of students that can be accommodated in this elective	 4) To provide adequate knowledge to MBBS Students regarding biomedical waste (BMW) impact on environment & community due to its improper disposal. 5) To provide knowledge about BMW classification, segregation, treatment and disposal methods 6) To Motivate and sensitize the students for preventing the chances of getting infections and accidental injuries due to improper handling of BMW. 7) This course will help MBBS graduates to supervise the pre treatment & disposal of BMW management in his future. 5 		
Prerequisites for elective	 Vaccinated with Hepatitis B Files with worksheets BMW disposal bags, Autoclave, Chemical disinfectants & material for its validity testing 		
Learning resources for students	 Reference books & BMW hand book. 1) Text book of Microbiology by R. Ananthanarayan & C K Jayaram Panikar 2) Text book of Essential Medical Microbiology by Dr Apurba S Sastry & Dr Sandhya Bhat. 3) Hospital associated Infection, Epidemiology, Prevention & Control by Neeta Patwardhan 4) Biomedical Waste Management Rules 2016. 5) Departmental BMW hand book 		

List of activities of student participation	 1-Lectures, Practical's / Demonstrations. 2-Visit to various patient care areas (laboratory, ICU, Labor room, ward, OPD) of the hospitals. 3-Visit to Central BMW storage area. 4-Presentations on observations made during visit.
Portfolio entries required	Not required
Worksheet entry required	 -Documentation of location of patient care areas (laboratory, ICU, Labor room, ward, OPD) & Central BMW storage area visited and date of visit. -Documentation of findings of methods for proper segregation, pretreatment & disposal of BMW. -Satisfactory completion of posting signed by preceptor with a "meets expectation 'M' grade.
Assessment	Formative: Day to day assessment based on :
Attendance: More than 80 % attendance is mandatory	Attendance: 05 marks
	Presentation on observations : 05 marks
	Documentation of findings of methods for proper
	segregation: 05 marks
	Completion of worksheets : 05 marks
	Total marks : 20 marks

As per NMC

TIME DURATION: 2 weeks

- Clinical posting should continue.
- Duration for elective course : 2 Weeks (Afternoon session)

COURSE CONTENT:

Sr. no.	Lectures	Demonstrations
Day 1	Introduction of course & pattern. BMW management & handling rules, Definition – Related to BMW rules.	
Day 2	Sterilization by autoclave, Disinfection [Commonly used disinfectants]	Working of Autoclave. Chemical disinfectants used in hospital for disposal of BMW & its Validity testing
Day 3	Classification of BMW (Category & types of waste)	
Day 4	Collection of waste, segregation & its importance.	Video demonstration – BMW management. Demonstration of color coded bags.
Day 5	Universal safety precautions & Management of Infectious spills	

Sr. no.	Lectures	Demonstrations
Day 6	Policy for handling BMW including COVID -19 waste & disposal of sharps	
Day 7	PEP Management	
Day 8	Storage and Transport of biomedical waste, Instructions for persons handling BMW.	
Day 9	Treatment & disposal of BMW : General guidelines. Methods for treatment of BMW: Mechanical processes.	Visit to patient care areas (laboratory, ICU, Labor room ,ward, OPD) to observe waste disposal practices
Day 10	Standard for deep burial, Disposal of liquid waste (ETP) , animal waste , cytotoxic drug waste & Disposal of General waste.	Visit to central BMW storage area.
Day 11	Presentation by students on observations of the visited areas (laboratory, ICU, Labor room ,ward, OPD)	
Day 12	Presentation by students on observations of the visited area (Central BMW storage area of the hospital) Feedback about the course	

COURSE FACILITATORS: All faculty members of Microbiology department& laboratory technician in microbiology.

ANNEXURE NO: 1B

Annexure-17B of AC-46/2023

Mahatma Gandhi Mission's College. N-6 CIDCO, Aurangabad – 431003 DEPARTMENT OF MICROBIOLOGY

PROPOSAL FOR ELECTIVE COURSE (II) IN BLOCK - 1

- 1. NAME OF ELECTIVE : Diagnostic methods in bacteriology
- 2. ELIGIBILITY: MBBS students before commencement of 3rd MBBS Part II.

3. COURSE DESCRIPTION:

It is a short certificate course designed to provide adequate knowledge to UG MBBS Students regarding the procedures carried out in Bacteriology for isolation of bacteria from clinical specimen, sterilization method staining techniques, biochemical reactions for identification of bacterial pathogens and its antimicrobial susceptibility pattern. By doing this elective course student will be competent in carrying out diagnostic procedures in side laboratory of hospital.

4. LEARNING OBJECTIVES:

- 1) This elective posting will provide adequate knowledge to MBBS Students regarding diagnostic methods in bacteriology.
- 2) Will provide knowledge about isolation of bacteria from clinical specimen, various staining techniques, biochemical reactions for identification of bacterial pathogens and its antimicrobial susceptibility pattern.

5. COURSE OUTCOMES:

***** At the end of this course MBBS student shall be able to:

- 1) Know collection & transport of clinical specimen in bacteriology section.
- 2) Know sterilization methods used in bacteriology.
- 3) Perform staining techniques for identification of bacterial isolates.
- 4) Perform antimicrobial susceptibility test and its interpretation.

6. COURSE DURATION: 2 weeks - before commencement of 3rd MBBS Part II.

7. INTAKE CAPACITY: 05 students.

8. COURSE COORDINATOR: Dr. Wyawahare A.S

9. COURSE FACILITATORS: All Teaching faculties.

10. TEACHING HOURS: Total 12 hours

Name of the Block	Block 1	
Name of the elective	Diagnostic methods in bacteriology	
Location of Hospital lab or research facility	Microbiology Laboratory, MGM Medical College and	
	Hospital Aurangabad.	
Name of Internal Preceptors	Mr. Kamlesh Khule Tutor, Microbiology Aurangabad.	
	Mr. Sopan Pathade Laboratory Technician	
Name of External Preceptors	Nil	
Learning Objectives of the elective	This elective posting will provide efficient and	
	balanced training to 2 nd Year MBBS students in	
	Laboratory Medicine especially in the field of	
	bacteriology	
	 Students will receive supportive academic experience. 	
	• This course will help a MBBS graduate to work in	
	various lab settings in future.	
	 The course will also deal with Collection of 	
	Information needed for sampling, testing &	
	reporting of bacteriology investigations.	
Number of Students that can be	5	
accommodated		
Prerequisite for elective	 Vaccinated with Hepatitis B and 	
	 Appropriate PPE like gloves, masks etc 	
	 Files with worksheets. 	
Learning resources for students	Textbook of Microbiology by R Ananthnarayan and Paniker	
	Textbook of Microbiology by Baveja	
	Mackie McCartney practical Medical Microbiology by Colle	
	JG, Fraser AG	
List of activities in which students will	Attend Theory lectures	
participate	Present seminars	
	Observe various test procedures	
Portfolio entries required	Perform and interpret common tests Not required	
Worksheets entries required	Completion of postings signed by Preceptor with a "Meets	
	expectation" (M) Grade and documentation of all tests	
	observed and performed.	
Assessment	Formative :	
Attendance:	Formative: Day to day assessment based on	
More than 80 % attendance is mandatory	Attendance: 05 marks	
	Seminars Presentation: 05 marks	
	Interpretation of procedures : 05 marks	
	Completion of Worksheets : 05 marks	
	Total marks : 20 marks	
Other comments	Course content and facilitators given in detail below	

As per NMC:

- Clinical posting should continue in morning session
- Duration for elective course : 2 Weeks (Afternoon session)

12. COURSE CONTENT:

SR NO	LECTURES/ SEMINARS	CLINICAL POSTING/ PRACTICALS/DEMONSTRATIONS
Day 1	Universal Safety precautions	Visit to Microbiology lab , observe cleaning maintenance and performance of tests in Biosafety cabinets
Day 2	Collection of samples and common pre- analytical errors	Observing sample receiving in Bacteriology.
Day 3	Study of Bacteria (Grams Staining)	Preparation of Grams stain, Staining of smear with Grams Stain and Observation
Day 4	Study of Bacteria (ZN Staining)	Preparation of ZN Stain, Staining and observation of ZN Stain
Day 5	Study of bacteria (Wet Mount &Hanging Drop) Study of Bacteria (Special Stains)	Wet Mount and hanging drop preparation and observation. Preparation of Albert's Stain, Staining and observation of Albert's Stain
Day 6	Sterilization by Dry heat	Usage of Hot Air Oven
Day 7	Sterilisation by Moist Heat	Usage of Autoclave and Inspissator
Day 8	Disinfection	Various disinfectants in Lab and visit to CSSD
Day 9	Culture medias	Preparation of Blood agar, MacConkey's agar and Muller Hinton Agar.
Day 10	Biochemical's	Observe and Prepare Biochemical's like Catalase, Coagulase , IMViC, Urease , Oxidase & TSI etc. Learn inoculation and interpretation
Day 11	Aerobic Culture Methods Anaerobic Culture Methods	Observe and hands on practice for inoculation of aerobic Samples Observe and prepare smears from RCM Use of candle jar
Day 12	Antibiotic Sensitivity test & Antimicrobial stewardship Feedback about the course	Hands on experience in performing Kirby Bauer Disc Diffusion test and its interpretation.

COURSE FACILITATORS: All faculty members of Microbiology department& laboratory technician in microbiology.

ANNEXURE NO: 1C



Annexure-17C of AC-46/2023

Mahatma Gandhi Mission's College. N-6 CIDCO, Aurangabad – 431003 DEPARTMENT OF MICROBIOLOGY

FEEDBACK FORM II MBBS [BLOCK I] FOR ELECTIVE COURSE

ADMISSION BATCH :

NAME OF ELECTIVE

NAME OF STUDENT:

NAME OF PRECEPTOR:

FEEDBACK ABOUT THE COURSE

PARAMETER	REMARK
Learning objectives of the course is achieved	YES /NO
Topic of this elective course is useful	YES /NO
Any suggestions	

Annexure-19A of AC-46/2023

Elective 1: Learning activity in Block 1

(Elective in Microbiology, Navi Mumbai):

Name of the Block	Block 1
Name of the elective	Lab diagnosis in Bacterial Infections
Location of Hospital lab or research facility	Microbiology Laboratory, MGM Medical College
	and Hospital Navi Mumbai
Name of Internal Percepters	Dr A Hodiwala
	Dr K Chaudhary
Name of External Percepters	Nil
Learning Objectives of the elective	• This elective posting will provide
	efficient and balanced training to 2 nd
	Year MBBS students in Laboratory
	Medicine especially in the field of
	Bacteriology
	• Students will receive a stimulating,
	challenging and supportive academic
	experience.
	1
	• This course will help a MBBS
	graduate to work in various lab
	settings in future including Public
	Health Laboratories, Research and
	Development and Quality assurance
	companies.
	• The course will also deal with
	Collection of Information needed,
	Sampling, Testing, Reporting and
	Documentation of these investigations.
Number of Students that can be accomodated	5
Prerequisite for elective	Students to be Vaccinated with Hepatitis B and
	SARS COV 2
	Gloves and masks for students
	Files for worksheets
Learning resources for students	Textbook of Microbiology by R Ananthnarayan and Paniker
	Textbook of Microbiology- Baweja
	Mackie McCartney practical Medical
	Microbiology by Colle JG, Fraser AG
	micronology by concess, maser AU

Attend The same last une
Attend Theory lecture
Present seminars
Observe various test procedures
Perform and interpret common tests
Not required
Documentation of all tests observed and
performed in worksheets duly Signed by Teacher
/ demonstrator with a "Meets expectation" (M)
Grade.
Formative : Day to day assessment based on :
• Attendance (5Marks)
• Presentations (5Marks)
• Performance of assigned tasks (5
Marks)
 Completion of worksheets (5 Marks)
• Completion of worksheets (5 Marks)
TOTAL: 20 Marks
Those scoring 15 and above will be graded as
E- Exceeds expectations
-
Those scoring below 15 shall be graded as M-
Meets expectation
Course content and facilitators given in detail
below

As per NMC:

- Time Duration: 2 Weeks
- Clinical Postings should continue

COURSE CONTENT:

SR NO	LECTURES/ SEMINARS	CLINICAL POSTING/ PRACTICALS/DEMONSTRATIONS
Day 1	Universal Safety precautions	Visit to Microbiology lab, observe cleaning maintainence and performance of tests in Biosafety cabinets. Observe biomedical waste disposal and perform hand washing.
Day 2	Microscopy	Use, Handling and Care of Microscope and observe different samples under microscope.
Day 3	Collection of samples and common pre- analytical errors	Observing sample collection procedure.

Day 4	Study of Bacteria (Grams Staining)	Preparation of Grams stain, Staining of
-	Study of Bacteria (ZN Staining)	smear with Grams Stain and Observation
		Preparation of ZN Stain, Staining and
		observation of ZN Stain.
Day 5	Study of bacteria (Wet Mount and	Wet Mount and hanging drop preparation
	Hanging Drop)	and observation
	Study of Bacteria (Special Stains)	Preparation of India Ink slide, observe the
		slides after staining
Day 6	Sterilization by Dry heat	Usage of Hot Air Oven , Flaming
Day 7	Sterilisation by Moist Heat	Usage of Autoclave and Inspissator and
		Visit to CSSD
Day 8	Disinfection	Usage of various disinfectants in Lab and
		visit to CSSD
Day 9	Culture medias	Observe preparation of BA, CA, MA,
		MSA and Muller Hinton Agar.
Day 10	Biochemicals	Observe and Prepare Biochemicals like
		Urease, TSI, Citrate, MR and Peptone
		water. Learn inoculation and interpretation
		of various biochemical reactions
Day 11	Aerobic Culture Methods	Observe and hands on practice for
	Anaerobic Culture Methods	inoculation of aerobic Samples
		Observe and prepare smears from RCM.
		Use of candle jar
Day 12	Antibiotic Sensitivity test and Antibiotic	Hands on experience in performing Kirby
	stewardship	Bauer Disc Diffusion test and its
		interpretation. Learn about antibiotic
		policy making
Day 13	Feedbacks and solving doubts	

COURSE FACILITATORS: Dr A.Hodiwala Dr S.Samant Dr H.Kar Dr S.Pachpute Dr D.Khiste Dr N.Singh Dr K. Chaudhari Ms A.Kore Ms B. Gharat Ms A Warang Ms J Gawali Mr V Yadav Microbiology Technicians Microbiology PhD scholars Microbiology MD residents

Elective 2: Learning activity in Block 1

Name of the Block	Block 1
Name of the elective	Molecular, Mycobacteriology, Parasitology,
	Mycology Techniques
Location of Hospital lab or research facility	Microbiology Laboratory, MGM Medical College
	and Hospital Navi Mumbai
Name of Internal Percepters	Dr S Samant
	Dr K Chaudhary
Name of External Percepters	Nil
Learning Objectives of the elective	 This elective posting will provide efficient and balanced training to 2nd Year MBBS students in Laboratory Medicine especially in the field of Molecular biology. Mycobacteriology, Parasitology and Mycology techniques Students will receive a stimulating, challenging and supportive academic experience. This course will help a MBBS graduate to work in various lab settings in future including Public Health Laboratories, Research and Development and Quality assurance companies. The course will also deal with Collection of Information needed, Sampling, Testing, Reporting and Documentation of these investigations.
Number of Students that can be accomodated	5
Prerequisite for elective	Vaccinated with Hepatitis B and SARS COV 2
	Gloves and masks for students
Learning account for all the tr	Files for worksheets
Learning resources for students	Textbook of Microbiology by R Ananthnarayan
	and Paniker
	Textbook of Microbiology- Baweja

(Elective in Microbiology, Navi Mumbai):

	Tautha als of nonacitals and Davisia
	Textbook of parasitology- Baweja
	Mackie McCartney practical Medical
	Microbiology by Colle JG, Fraser AG
List of activities in which students will participate	Attend Theory lecture
	Present seminars
	Observe various test procedures
	Perform and interpret common tests
Portfolio entries required	Not required
Worksheets entries required	Documentation of all tests observed and
	performed in worksheets duly Signed by Teacher
	/ demonstrator with a "Meets expectation" (M)
	Grade.
Assessment	Formative : Day to day assessment based on :
	• Attendance (5Marks)
	• Presentations (5Marks)
	• Performance of assigned tasks (5
	Marks)
	,
	• Completion of worksheets (5 Marks)
	TOTAL: 20
	Those scoring 15 and above will be graded as
	E- Exceeds expectations
	Those scoring below 15 shall be graded as M-
	Meets expectation
Other comments	Course content and facilitators given in detail
	below

As per NMC:

- Time Duration: 2 Weeks
- Clinical Postings should continue

COURSE CONTENT:

SR NO	LECTURES/ SEMINARS	CLINICAL POSTING/ PRACTICALS/DEMONSTRATIONS
Day 1	Wet mount and Iodine preparation and Concentration methods for stool examination for detection of parasites	Observe and perform any one stool concentration method and stool examination
Day 2	Lab diagnosis of Malaria	Observe and prepare peripheral smears for Malarial parasite. Observe and interpret RMA test.

Day 3	Parasitic infections in	Observe and perform modified ZN
	immunocompromised	method for detection of Cryptosporidium
		and Isosporidium
Day 4	Lab diagnosis of Fungal infections	Observe inoculation on SDA, KOH mount
		preparation, India Ink preparation and
		slide culture.
Day 5	Lab Diagnosis of Tuberculosis	Observe Demonstration of sputum
	(conventional methods)	concentration and Culture on LJ medium
		and MGIT. Visit to DOTS centre
Day 6	Lab Diagnosis of Tuberculosis	Demonstration of GENE Xpert for
	(Molecular Methods)	tuberculosis.
Day 7	Lab Diagnosis of Viral infections	Observing all serological tests performed
		in Microbiology lab and getting to know
		how to interpret them.
Day 8	Polymerase Chain reaction	Observe Demonstration of GENE Xpert
		/RT PCR for viral infections.
Day 9	ELISA	Visit to MGM Kalamboli hospital lab for
		Observation and Demonstration of ELISA
		test and Interpretation by calculating the
		cut off point
Day 10	Lab Diagnosis of HIV	Demonstration in ICTC lab and learn pre
		and post test councelling
Day 11	Viral Load	Observe Demonstration of HIV Viral load
		detection and visit to ART centre
Day 12	Flowcytometry for CD4/ CD8 count	Observe demonstration of Flowcytometry
		for CD4 /CD8 count.
Day 13	Feedbacks and solving doubts	

COURSE FACILITATORS:

Dr A.Hodiwala Dr S.Samant Dr H.Kar Dr S.Pachpute Dr D.Khiste Dr N.Singh Dr K. Chaudhari Ms A.Kore Ms B. Gharat Ms A Warang Ms J Gawali Mr V Yadav Microbiology Technicians Microbiology PhD scholars Microbiology MD residents

ELECTIVES FORENSIC MEDICINE

Name of Block	Block 1
Name of Elective	Clinical Forensic Medicine
Location of hospital lab or research facility	Emergency Room ofMedical College & Hospital.
Name of internal preceptor(s)	Faculty of Forensic Medicine Department & On duty Casualty Medical Officer
Name of external preceptor (if any)	N/A
Learning objectives of the elective	 To make the student able to identify the cases having medico legal potential. To make the student able to learn all the statutory requirements & duties to be carried out by a registered medical practitioner in medico legal cases brought by police/patient himself/relatives or any other person. To make the student able to communicate to the competent authority (police) and relatives/kin of the patient in medico legal cases under supervision. To make the student learn to record all the required details in the medico legal register and the OPD case sheet/book in medico legal cases under supervision. To make the student learn to examine the injuries (with different etiologies)/poisoning cases and learn to prepare injury certificates under supervision. To make the student learn collection, preservation & deposition of required samples/evidences in the injury (with different etiologies) /poisoning or any other medico legal cases with proper precautions for maintenance of chain of custody under supervision. To make the student learn age estimation in medico legal cases as a collaborative exercise with other responsible departments like Radio-diagnosis, Dentistry and Obst. & Gynaecology. To make the student learn examination of a drunk person & prepare drunkenness report along with statutory medico legal requirements under supervision. To make the student learn examination of accused of sexual offences & prepare its report along with statutory medico legal requirements under supervision. To make the student learn examination of victim of sexual offences & prepare its report along with statutory medico legal requirements under supervision.

	11. To make the student able to record dying declaration under supervision.
Number of students that can be accommodated in this elective	4
Prerequisites for the elective	Basic Knowledge of different medico legal cases and relevant laws related to offences against human body.
Learning resources for students	Textbooks of Forensic Medicine, Literature and Format of certificate for documentation of medico legal cases
List of activities in which the student will participate	 Work daily with a supervisor by observing & assisting the handling of various medico legal cases. Assist in maintaining the medico legal register & documents. Observe the medico legal reports preparation done by the supervisor. Participate in communication with the competent authority (police) and relatives/kin of the patient in medico legal cases under supervision. Assist in collection, preservation & deposition of required samples/evidences in the injury (with different etiologies) /poisoning or any other medico legal cases with proper precautions for maintenance of chain of custody under supervision. Case presentation of least 6 (Six) different medico legal cases.
Portfolio entries required	 Documentation of examined Medico legal cases. Presentation of Documented Medico legal case.
Log book entry required	Completion of posting signed by preceptor & Head of the department with a "Meets the expectations '(M)' grade"
Assessment	Formative: 1. Attendance 2. Day-to-day participation in Medico legal cases 3. Performance of assigned tasks in Medico legal case 4. Presentation of Medico-Legal cases
Other comments	 75% attendance Mandatory Student Must complete the assigned learning List of activities.

Name of Block	Block 1
Name of Elective	Medical Jurisprudence
Location of hospital lab or research facility	Medical Record Department (MRD) & Forensic Medicine Department of Medical College & Hospital.
Name of internal preceptor(s)	Faculty of Forensic Medicine Department
Name of external preceptor (if any)	N/A
Learning objectives of the elective	 CONSENT IN MEDICAL PRACTICE: To make the student understand the types and importance of consent & its documentation in medical practice. To make the student learn various components of a valid consent. To make the student learn Indian laws relevant to consent in different scenario. To make the student able to analyse the consent forms for various procedures from the case files. To make the student able to obtain procedure specific valid consent under supervision. MEDICAL NEGLIGENCE: To make the student learn various components of medical negligence. To make the student study the judgements given by Consumer Disputes Redressal Commissions in medical negligence cases. To make the student learn to opine in cases of medical negligence.
Number of students that can be accommodated in this elective	4
Prerequisites for the elective	Basic Knowledge of Consent and Medical negligence.
Learning resources for students	Textbooks of Forensic Medicine, Case files in the Medical Record Department, Compendium of CPA Medical Judgements
List of activities in which the student will participate	Morning Hours: (At the MRD) 1. Study the case sheets and consent forms from the case files at Medical Record Department selected by the Faculty of Forensic Medicine Department under supervision.

	2. Study various components of a valid consent in the
	consent forms & validity of the consent forms as per Indian laws.
	3. Design/formulate at least 5 procedure specific consent
	forms.
	4. Observe & participate with the clinician in obtaining the
	consent for various procedures (at least once in a week
	by visiting the wards as per instructions from the faculty
	of Forensic Medicine).
	AFTERNOON HOURS: (At Forensic Medicine department)
	1. Study at least 8 cases of Medical negligence from the
	literature made available by the department of Forensic
	Medicine during 4 weeks.
	2. Spend 2 days for studying the facts of the case and 1 day
	for case presentation & discussion per case. (2 cases per week)
	3. Active participation in case discussion.
	5. Active participation in case discussion.
Portfolio entries required	1. Documentation of examined case files and consent forms.
	2. At least 2 procedure specific consent forms.
	3. Documentation of studied cases of medical negligence.
Log book entry required	Completion of posting signed by preceptor & Head of the
	department with a "Meets the expectations '(M)' grade"
Assessment	Formative:
	1. Attendance
	2. Day-to-day participation in case files & consent forms.
	3. Performance of assigned tasks with relation to obtaining
	the consent.
	4. Active participation in case discussions of medical
	negligence.
Other comments	1. 75% attendance Mandatory
	2. Student Must complete the assigned learning List of
	activities.

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Annexure 2

27-3-23	
27 March 23 to	23 Apr 23
24 Apr 23 to	17 Dec 23
25 Sept 23 to	28 sept 23
22 Dec 23 to	4 J an 24
Feb 24	
	27 March 23 to 24 Apr 23 to 25 Sept 23 to 22 Dec 23 to

Annexure-29A of AC-46/2023

ANNEXURES 3 A

Block 2	Learning	experience –	Elective	Posting
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Name of Block	Block 2	
Name of elective	DIABETES CLINIC	
Location of training	MGM Medical College, Navi Mumbai	
Name of internal preceptor	Dr. Sandeep Rai	
	Dr. Vandana Dandekar Dr. Matti Sreeram Praveen	
Name of external preceptor	Not applicable	
Learning objectives of electives	At the end of this posting, the candidate	
	 To be able to describe the presenting complaints and etiopathogenesis of patients of diabetes mellitus and to know what type of diabetes mellitus the patient is having. To be able to analyse investigations and prescribe treatment to patients presenting with diabetes mellitus. To be able counsel patients regarding diet to be taken in diabetes mellitus. To be able to enumerate the indications and complications of diabetes mellitus. To be able to manage a patient of diabetic ketoacidosis in an emergency room. To be able to prescribe the type of medicines in patients of diabetes mellitus based on the blood investigations. 	
Number of students that can be accommodated in this elective	Upto 5	
Pre-requisites for this elective	Must have completed at least two Hepatitis B vaccination and covid vaccination.	
List of activities of student participation Schedule of posting	Day 1 To know what is diabetes mellitus and classification of diabetes mellitus.	
• 1000 Hrs to 1300 Hrs – Observation and	Day 2 To describe the etiopathogenesis of diabetes mellitus.	
• 1000 His to 1500 His – Observation and presentation	Day 3 To analyse the investigations ordered for the above patients.	
• 1300 Hrs – 1330 Hrs – Lunch break	ordered for the above patients.	
 1330 Hrs – 1400 Hrs – Summarising whatever was observed, discussed or performed. 	Day 4 Classification of oral hypoglycemic agents, adverse effects and dosage and combination of oral hypoglycemic agents.	

• 1400 Hrs - 1530 Hrs – Writing whatever	Day 5	To observe of different
was observed, discussed or performed in		hypoglycemic agents are
the logbook		prescribed to the patients based on
		their blood investigations.
• 1530 Hrs – 1600 Hrs – Logbook to be	Day 6	Classification of insulins and
checked by preceptor.		mechanism of action of different
		insulins and duration of action of
		different insulins.
	Day 7	Observe How insulins are
	Day /	prescribed to patients.
	Day 8	Complications of diabetes
	Day 8	mellitus.
	Dara	
	Day 9	To observe emergency
		management of diabetic keto
		acidosis.
	Day	Importance of fundus examination
	10	in cases of diabetes mellitus and
		how to do a fundus examination.
	Day	Renal dose adjustments of oral
	11	hypoglycemic agents.
	Day	Diet to be adviced in patients of
	12	diabetes mellitus.
	Day	Importance of ketogenic diet.
	13	
	Day	To observe the need of admission
	14	in patients of uncontrolled
	14	diabetes mellitis.
	Dav	
	Day 15	Complete the logbook.
	15	T
		Logbook assessment by preceptor.
		Feedback of performance by
		preceptor to candidate.
		Feedback of session content and
		execution by candidate to
		preceptor.
Learning resources	1. Harrison	n textbook of medicine
	2. K.D.Tri	pathi textbook of pharmacology
	3. Davidso	on textbook of medicine.
Portfolio entries required	Assignments pro	ovided:
•	1. Four ful	lly worked up case records that have
	been pro	
Logbook entry required		npletion of posting by a preceptor
<i>C</i>		e (meets expectation)
Assessment	Attendance	
	Formative:	
		ation of OP and IP rounds
		ation of worked up cases
		anon of worked up cases
		a antwi
	3. Portfoli	
	 Portfoli Logboo 	k entry
Other comments	3. Portfoli	k entry

Annexure-29B of AC-46/2023

ANNEXURES 3 B

Block 2 Learning experience – Elective Posting

Name of Block	Block 2
Name of elective	Gastroenterology
Location of training	MGM Medical College, Navi Mumbai
Name of internal preceptor	Dr. Raoshaheb Rathod
	Dr. Mayur Garg Dr. Junaid Ahmed
Name of external preceptor	Not applicable
Learning objectives of electives	At the end of this posting, the candidate
	 7. To be able to take detailed history, perform full physical examination and make a clinical diagnosis. 8. To be able to perform and interpret relevant investigations (Imaging and Laboratory). 9. To be able to diagnose gastroenterological illnesses in adults based on the analysis of history, physical examination and investigative work up. 10. To be able to plan and deliver comprehensive treatment for illness in adults using principles of rational drug therapy. 11. To be able to plan and advise measures for the prevention of gastroenterological diseases. 12. To be able to plan rehabilitation of adults suffering from chronic illness, and those with special needs. 13. To be able to identify or diagnose gastroenterological emergencies efficiently. 14. To be able to demonstrate communication skills of a high order in explaining management and prognosis, providing counseling and giving health education messages to patients, families and

		tube insertion, upper GI doscopy, colonoscopy ocedure under a
Number of students that can be accommodated in this elective	Upto 5	
Pre-requisites for this elective	Must have completed at leaved at lea	
List of activities of student participation	- /	To observe the presenting complaints
Schedule of posting		of patients assigned to each candidate.(Acute
 1000 Hrs to 1300 Hrs – Observation and presentation 		viral hepatitis, chronic hepatitis, cirrhosis of liver, hepatic
• 1300 Hrs – 1330 Hrs – Lunch break		encephalopathy). To describe the
 1330 Hrs – 1400 Hrs – Summarising whatever was observed, discussed or performed. 	,	etiopathogenesis of the disease afflicting the patient assigned to each candidate.
 1400 Hrs - 1530 Hrs – Writing whatever was observed, discussed or performed in the logbook 		To analyse the investigations ordered for the above patients.
 1530 Hrs – 1600 Hrs – Logbook to be checked by preceptor. 		To observe prescription advised to each patient.
	,	To describe the anatomy of esophagus, stomach, small intestine and large intestine with their blood supply and venous and lymphatic drainage.
		To describe anatomy of liver and hepatobiliary system.
		To describe anatomy of pancreas.
	Day 5	To observe the presenting complaints of patients assigned to each candidate. (upper and lower gastrointestinal bleed, acute abdomen, inflammatory bowel disease, abdominal

	tuberculosis).
Day 6	To describe the etiopathogenesis of the disease afflicting the patient assigned to each candidate.
Day 7	To analyse the investigations ordered for the above patients.
	To observe prescription advised to each patient.
Day 8	To observe and assist 1. Nasogatric tube insertion 2. Ascitic taping
Day 9	To observe Upper GI Endoscopy under supervision.
	To observe colonoscopy under supervision
Day 10	To counsel patients regarding diet to be adhered to.
Day 11	Present a case of cirrhosis of liver during the posting.
 Day 12	Present a case of acute viral hepatitis during the posting.
Day 13	Present a case of acute abdomen assigned during the posting.
Day 14	Present a case of upper/lower GI bleed assigned during the posting.
Day 15	Complete the logbook. Logbook assessment by
	preceptor. Feedback of performance by preceptor to candidate.
	Feedback of session content and execution

	by candidate to
	preceptor.
Learning resources	1. Harrison textbook of medicine
	2. Diseases of the Liver & Biliary System-
	Sheila Sherlock
Portfolio entries required	Assignments provided:
	2. Four fully worked up case records that
	have been presented.
Logbook entry required	Satisfactory completion of posting by a preceptor
	with an M grade (meets expectation)
Assessment	Attendance
	Formative:
	6. Participation of OP and IP rounds
	7. Presentation of worked up cases
	8. Portfolio entry
	9. Logbook entry
Other comments	Training sessions of resources which are not
	available in the college campus will be conducted
	in suitable pre-decided locations in Navi Mumbai,
	Mumbai or Thane.

Name of Block	Block 2
Name of Elective	Clinical infectious disease
Location of hospital Lab or research facility	MGM Medical college hospital
Name of internal preceptor(s)	Dr. Apoorva Nirmal Dr. Ahmed Khan
Name of external preceptor if applicable	N/A
Learning objectives of elective	 To function as part of an infectious disease team To be able to approach and investigate infection outbreaks Get hands on experience on contact tracing, community isolation measures, and use of technology to detect infectious diseases To understand the principles of the management of community and hospital acquired infections To understand the principles of antibiotics stewardship in order to prevent antibiotic resistance
Number of students that can be accommodated in this elective	3-5
Prerequisites for elective	Universal precautions and must have taken required immunizations; CPR training

List of activities of student participation	1. Participate in inpatient and
	 outpatient team rounds Participate in emerging community outbreak infection control (eg COVID-19) Counsel patients on correct precautions during outbreaks Diagnose and understand the principles in the management of infectious diseases Liaise with the laboratory in the diagnosis Present at least one patient or outbreak investigation in the departmental meeting Observe and record the cases of antibiotic resistance in the hospital setup.
Learning Resources	API textbook of medicine
Portfolio entries required	Case record of at least one patient Record of patient counseling session or contact tracing done Record of investigations done for infectious diseases
Log book entry required	Satisfactory completion of posting by preceptor
Assessment	Daily Attendance, Successful verification of required portfolio entries, Successful completion of the posting as certified in the log book with a "meets expectation 'M' grade" Formative assessment Feedback questionnaire
Other comments	

Name of Block	Block 2
Name of Elective	MICU
Location of hospital Lab or research facility	MGM Medical college hospital
Name of internal	Dr. Badal Taori
preceptor(s)	Dr.Shripal Jain
	Dr. Prashant Kaushik
Name of external preceptor if applicable	N/A
Learning objectives of elective	 6. To function as part of a critical care team 7. To learn the ICU bedside etiquettes including hand sanitization, barrier nursing and communication with non intubated patients 8. Monitor hemodynamics,oxygenation,blood chemistry and acid base balance in critically ill patient 9. Medical knowledge of drugs used in ICU 10. Clinical knowledge and management of various systems including respiratory, endocrine, neurology, nephrology, cardiovascular, hepatobiliary and git 11. Observe and assist in various procedure being performed in ICU 12. To observe CPR 13. Communication with relatives and breaking the bad news
Number of students that can be accommoda ted in this elective	3-5
Prerequisites for elective	Universal precautions and must havetaken required immunizations; CPR training

	1. Orientation of critical care and
List of activities of student participation	hemodynamic monitoring
<u>SCHEDULE</u>	2. Perform, assist, observe and interpret
• 1000 Hrs to 1300 Hrs – Observation and presentation	a) Perform and analyses of ECG,Capillary blood glucose ,urine ketone by dip stick
Procentation	b) Assist and interpret ABG
 1300 Hrs – 1330 Hrs – Lunch break 	c) Observe procedures including ICD insertion (depending upon availability) Central venous catheter insertion, Arterial line,
• 1330 Hrs – 1400 Hrs – Summarising	Endotracheal intubation
whatever was observed, discussed or performed.	d) Observe and assist Ryle's tube and Foleys catheter, IV cannulation
 1400 Hrs - 1530 Hrs Writing whatever was observed, discussed on 	e) Observe various oxygen therapy and Nebulization
discussed or performed in the logbook	f) Observe Mechanical ventilation(invasive and non invasive)
 1530 Hrs – 1600 Hrs – Logbook to be checked by 	g) Observe CPR
preceptor.	 3. Observe how to order a prescription and pharmacology of various drugs: a) Antiarrhythmic b) Anti hypertensives c) Inotropes and Vasopressors d) Antimicrobials e) Antithrombotic and anticoagulation f) Sedatives, analgesics & neuromuscular blockers 4. Management of shock and hypertensive urgency and emergencies and observe counselling with relatives
	 Diagnosis and management of various systems including cardiovascular,respiratory,neurology,

	nephrology,gastroenterology and endocrinology) and observe counselling with relatives
	 Observe counselling, daily update of patient's condition to relatives and breaking bad news to relatives
	 2 Case presentations as ordered by the preceptors
Day- 15	 Complete the logbook. Logbook assessment by preceptor. Feedback of performance by preceptor to candidate. Feedback of session content and execution by candidate to preceptor.

Learning Resources	Paul Marino's ICU Book	
	Harrison textbook of medicine	
	Wellington manual of ICU	
	ICU protocol	
	Sanjay Pandya's Textbook for fluid management	
Portfolio entries required	Case record of 2 patients	
	Reflections of the various procedure and interpretation of ECG & ABG	
	Record of patient counseling session	
	Record of procedure done, assisted and observed	
Log book entry required	Satisfactory completion of posting by preceptor with M grade	

Assessment	 Daily Attendance, Participation of ICU rounds Successful verification of requiredportfolio entries, Successful completion of the posting as certified in the log book with a "meets expectation 'M' grade" Formative assessment Feedback questionnaire
Other comments	

ANNEXURES 3E Annexure-29E of AC-46/2023

Block 2 Learning experience – Elective Posting

Name of Block	Block 2	
Name of elective	Stroke Unit	
Location of training	MGM Medical College, Navi Mumbai	
Name of internal preceptor	Dr. Virti Shah Dr. Rahul Jankar Dr. Manjari Shukla	
Name of external preceptor	Not applicable	
Learning objectives of electives	At the end of this postin	ng, the candidate
	 16. To be able to take detailed history with emphasis on risk factors for stroke. 17. To be able to examine and elicit clinical signs in a stroke patient. 18. To be able to evaluate and interpret relevant investigations in a stroke patient. 19. To be able to interpret radiological findings in a stroke patient. 20. To be able to treat acute stroke and prescribe medications for preventing secondary stroke. 21. To be able to counsel relatives with emphasis on neurorehabilitation. 	
Number of students that can be accommodated in this elective	Upto 5	
Pre-requisites for this elective	None	
 List of activities of student participation <u>Schedule of posting</u> 1000 Hrs to 1300 Hrs – Observation and presentation 1300 Hrs – 1330 Hrs – Lunch break 1330 Hrs – 1400 Hrs – Summarising whatever was observed, discussed or performed. 	Ward and MICU (6 Days)	To observe detailed history taking in a stroke patient.To observe detailed motor and sensory examination in a stroke patient.To observe detailed cerebellar examination in a stroke patient.To observe detailed cerebellar examination in a stroke patient.To observe detailed ceranial nerve examination in a stroke

 1400 Hrs - 1530 Hrs – Writing whatever was observed, discussed or performed in the logbook 1530 Hrs – 1600 Hrs – Logbook to be checked by preceptor. 	OPD (2 Days)	To observe interpretation of- 3. Blood investigations 4. ECG in a stroke patient To observe interpretation of CT and MRI findings in a stroke patient. To observe the medicines prescribed for secondary prevention of stroke.
		To counsel patient and relatives about care and rehabilitation in stroke.
	ER (2 Days)	To observe treatment of acute stroke.
	Physiotherapy Department (1 Day)	To observe neurorehabilitation in a stroke patient.
	Ward (4 Days)	Present a case of acute ischemic stroke(anterior circulation) assigned during the posting. Present a case of acute ischemic stroke (posterior circulation) assigned during the posting. Present a case of
		haemorrhagic stroke assigned during the posting. Present a case of haemorrhagic stroke assigned during the posting.
		Complete the logbook. Logbook assessment by preceptor. Feedback of performance by preceptor to candidate. Feedback of session content and execution by candidate to preceptor.

Learning resources	3. Bickerstaff's Neurological Examination in Clinical Practice
	4. DeJong's Neurologic Examination
	5. Caplan's Stroke-A Clinical Approach
Portfolio entries required	Assignments provided:
L.	3. Four fully worked up case records that have
	been presented.
Logbook entry required	Satisfactory completion of posting by a preceptor
	with an M grade (meets expectation)
Assessment	Attendance
	Formative:
	10. Participation of OP and IP rounds
	11. Presentation of worked up cases
	12. Portfolio entry
	13. Logbook entry
Other comments	None

Annexure-29F of AC-46/2023

ANNEXURE 3 F

Block 2 Learning experience – Elective Posting

Name of Block	Block 2	
Name of elective	Nephrology	
Location of training	MGM Medical College, Navi Mumbai	
Name of internal preceptor	Dr. Aditya Nayak Dr. Supriya Bangar Dr. Rohit Khapre	
Name of external preceptor	Not applicable	
Learning objectives of electives	 22. To describe the presenting complaints and etiopathogenesis of patients afflicted with Acute Kidney Injury (AKI), Chronic Kidney Disease (CKD), Nephrotic syndrome and Acute nephritis. 23. To analyse investigations and prescribe treatment to patients presenting with AKI, CKD, Nephrotic syndrome and acute nephritis. 24. To counsel patients regarding diet to be taken in CKD. 25. To observe hemodialysis and peritoneal dialysis sessions under supervision. 26. To observe pre-operative evaluation and post-operative care of a patient undergoing kidney transplantation. 27. To observe urinary catheter insertion, long-term tunnelled hemodialysis catheter insertion and kidney biopsy procedure under a supervised environment. 28. To perform as a team member in a multidisciplinary approach to management of chronic kidney disease. 	
Number of students that can be accommodated	1 to 3	
in this elective		

Pre-requisites for this elective	Must have completed vaccination.	d at least two Hepatitis B
List of activities of student participation	Day 1	To observe the presenting complaints of patients
Schedule of posting		assigned to each candidate.(acute kidney
 1000 Hrs to 1300 Hrs – Observation and presentation 		injury, chronic kidney disease, nephrotic
• 1300 Hrs – 1330 Hrs – Lunch break		syndrome and acute nephritis).
• 1330 Hrs – 1400 Hrs – Summarising	Day 2	To describe the etiopathogenesis of the
whatever was observed, discussed or performed.		disease afflicting the patient assigned to each candidate.(AKI, CKD,
• 1400 Hrs - 1530 Hrs – Writing whatever was observed, discussed or performed in		Nephrotic syndrome and acute nephritis)
the logbook	Day 3	To analyse the investigations ordered for the above patients.
 1530 Hrs – 1600 Hrs – Logbook to be checked by preceptor. 		To observe prescription
		advised to each patient.
	Day 4	To describe the anatomy of arterial system and venous drainage of upper limbs and lower limbs.
		To describe anatomy of kidneys, ureters and bladder.
		To describe anatomy of peritoneum.
	Day 5	To observe 5. Temporary hemodialysis catheter insertion 6. Long-term
		hemodialysis catheter insertion. 7. Peritoneal dialysis
		catheter insertion.
		 Kidney biopsy procedure. Arteriovenous
	Day 6	fistula surgery. To observe hemodialysis session under supervision.

		To observe peritoneal
		dialysis session under
		supervision.
	Day 7	To counsel patients on
	Day /	dialysis regarding diet to
		be adhered to.
		be adhered to.
		To counsel patients
		regarding care of
		hemodialysis catheters
		and areterio-venous
		fistulae.
	Day 8	To observe the pre-
		operative evaluation of
		kidney transplantation
		recipient.
	Day 9	To observe the post-
	24, 5	operative care of the
		patient undergoing
		kidney transplantation.
	Day 10	The observe the
		functioning of a Water
		Treatment System used
		for hemodialysis
	Day 11	Present a case of acute
		kidney injury assigned
		during the posting.
	Day 12	Present a case of chronic
		kidney disease assigned
		during the posting.
	Day 13	Present a case of
		nephrotic syndrome
		assigned during the
		posting.
	Day 14	Present a case of acute
		nephritis assigned during
		the posting.
	Day 15	Complete the logbook.
		Logbook assessment by
		preceptor.
		Foodback of porfermer -
		Feedback of performance
		by preceptor to candidate.
		Feedback of session
		content and execution by candidate to preceptor.
Learning resources	6. Schrier's Man	ual of Nephrology
		ook of dialysis

Portfolio entries required	Assignments provided: 4. Four fully worked up case records that have been presented.
Logbook entry required	Satisfactory completion of posting by a preceptor with an M grade (meets expectation)
Assessment	Attendance Formative: 14. Participation of OP and IP rounds 15. Presentation of worked up cases 16. Portfolio entry 17. Logbook entry
Other comments	Training sessions of resources which are not available in the college campus will be conducted in suitable pre-decided locations in Navi Mumbai, Mumbai or Thane.

ANNEXURE 6A

ELECTIVE – COMPREHENSIVE THALESSEMIA CARE

1	Name of Book	Clinical
2	Name of elective	COMPREHENSIVE THALASSEMIA CARE
3	Location	Department of Pediatrics, Hospital Building,
		MGM Hospital, Kamothe
4	Name of Internal Professor (5)	Dr. Bageshree Seth
		Dr. Revati N.
		Dr. Roshni Patingere
5	Name of External Professor	Dr. Ratna Sharma (CTC- PHO- BMT Centre, Borivali)
6	Learning objectives of the	1. To diagnose thalassemia on the basis of clinical features and
	elective	investigations
		To describe the treatment and monitoring protocol in a thalassemia patient
		3. To observe and participate in counseling parents of newly
		diagnosed thalassemia patient.
		4. To observe and demonstrate the procedure of starting blood
		transfusion.
		5. To enumerate and describe transfusion reactions and
		management
		6. To enumerate methods for prevention of thalassemia in children
		7. To observe the working of a bone marrow transplant center
7	Number of students that can be	6 (six)
	accommodated in the elective	
8	Pre – requisites for the elective	Vaccination against Hep. B infection
9	Learning resources for students	Online resource:
		1. 2021 guidelines for the management of Transfusion dependent
		Thalassemia (TDT) (thalassemia. org).
		2. Management of transfusion dependent Thalassemia by Dr.
	··· · · · · · · · · ·	Anupam Sachdeva (Hand Book)
10	List of activities in which student	1. Attend indoor rounds with the unit
	will participate	2. Present two cases of thalassemia
		3. Observe and start blood transfusion in thalassemia patients.
		 Observed IV Cannulation and blood collection in thalassemia patients.
		· ·
11	Portfolio entries required	 5. Make a poster /PPT / Video on Thalassemia awareness. Case records of the cases presented
1 11		 Poster / PPT / Video on awareness reflections of BMT center visit.
12	Log book entry required	Satisfactory completion of posting authenticated by preceptor
13	Assessment	Attendance
		 Verification of portfolios entries.
L	1	

	 Successful completion of posting as certified in log book with a 'M' meets expectation grade.

Dr. Vijay Kamale Prof & HOD Department of Paediatrics

Annexure-32B of AC-46/2023

ANNEXURE 6B

ELECTIVE-PICU

1	Name of Book	Clinical
2	Name of elective	PEDIATRIC INTENSIVE CARE
3	Location	Department of Pediatrics, Hospital Building, MGM Hospital, Kamothe
4	Name of Internal Professor (5)	Dr. Jeetendra Gavhane Dr. Suhas Kharche Dr. Priyanka Amonkar
5	Learning objectives of the elective	 Recognition of sick child on the bsais of initial impression, primary assessment and secondary assessment Identify the problem leading to sick child and to know primary intervention To observe and participate in management of common pediatric emergencies
6	Number of students that can be accommodated in the elective	6 (six)
7	Pre – requisites for the elective	Vaccination against Hep. B infection
8	Learning resources for students	Online resource: 3. Roger's textbook of pediatric intensive care 4. IAP ALS handbook 2022
9	List of activities in which student will participate	 Attend PICU rounds with the unit Participate as a team member in management of sick child Observe and understand procedures and interventions such as CPR intubation interosseous etc. Make a PPT on management protocol for common pediatric emergencies.
10	Portfolio entries required	 Case records of the cases presented /participated PPT on management protocol for pediatric emergencies.
11	Log book entry required	Satisfactory completion of posting authenticated by preceptor
12	Assessment	 Attendance Verification of portfolios entries. Successful completion of posting as certified in log book with a 'M' meets expectation grade.

Annexure-32C of AC-46/2023

ANNEXURE 6C

Elective-NICU

1	Name of Book	Clinical
2	Name of elective	NEONATAL VENTILATION
3	Location	Department of Pediatrics, Hospital Building,
		MGM WOMEN AND CHILD HOSPITAL, Kalamboli
4	Name of Internal Professor (5)	Dr. Vijay Kamale
		Dr. Vikas Gupta
		Dr. Rupali Jain
5	Name of External Professor	Dr. Prasanna Kulkarni (V. N Desai Hospital)
6	Learning objectives of the elective	 Learn difference between Invasive and non invasive mode of ventilation. Basics of NRP Non invasive HHHFNC, Bubble Cpap, NIPPV, Airvo ventilation Invasive mode (PRVC/PC-AC/SIMV/VC – Mode) High frequency ventilators To observe and read Blood gases and to interpret the ABG To observe various ventilators graph. Monitor the babies on ventilator. Suctioning the baby To enumerate and describe complication of ventilators.
7	Number of students that can be accommodated in the elective	6 (six)
8	Pre – requisites for the elective	Negative MRSA nasal swab and covid vaccination.
9	Learning resources for students	Online resource:
		1. Textbook of neonatal resuscitation 8 th edition.
10	List of activities in which student will participate	 Assisted ventilation of the neonate (Goldsmith) Attend ICU rounds with the unit Interpret 5 ABG
		3. Perform NRP on a mannequin.

		 Observed intubation on a mannequin. Umbilical catheterization on a mannequin.
11	Portfolio entries required	Case records of the cases presented
12	Log book entry required	Satisfactory completion of posting authenticated by preceptor
13	Assessment	 Attendance Verification of portfolios entries. Successful completion of posting as certified in log book with a 'M' meets expectation grade.

Annexure-32D of AC-46/2023

ANNEXURE 6D

Elective Posting-DEADDICTION PSYCHIATRY

Name of Block	Block 2
Name of elective	DE-ADDICTION PSYCHIATRY
Location of training Name of internal preceptor	De-addiction Speciality Clinic and Ward, Dept of Psychiatry , MGM Medical College, Navi Mumbai Dr.Rakesh Ghildiyal (Prof & Head, Psychiatry)
Name of external preceptor	Not applicable
Learning objectives of electives	At the end of this posting, the candidate shall be able to demonstrate:
	 Knowledge on various types of addiction disorders prevalent in the region esp. Alcohol use disorder (AUD). Providing primary care of Alcohol withdrawal. Present details case formulation (using bio- psycho-social model) of AUD to subject experts. Understand inter-disciplinary management of AUD. Provide psycho-education to patient and family members on AUD management with emphasis on pharmacotherapy and non-pharmacotherapy approach to patient and relatives.
Number of students that can be accommodated in this elective	2
Pre-requisites for this elective	Good communication skills, empathy
List of activities and student participation	 Attending psychiatry OPD daily 9am to 1pm Attending speciality de-addiction OPD on Monday 2-4pm Attending grand rounds on Monday and Wednesday Attending C-L references for management of AUD along with PG residents Attending AA meeting on last Wednesday of the month. Participate in history-taking and examination of patient with AUD. Applying scales for assessment of alcohol withdrawal

	 Observe and participate in psycho-education in AUD. Present at least 2 cases to preceptor Participate in a short research project / seminar presentation on the topic 	
Learning resources	 Niraj Ahuja textbook of psychiatry for UG K.D.Tripathi textbook of pharmacology 	
Portfolio entries required	 Assignments provided: 1. Two fully worked up case records that have been presented. 2. Management plan discussed 	
Logbook entry required	Satisfactory completion of posting with an M grade (meets expectation)	
Assessment	(meets expectation)75% AttendanceFormative:1. Participation of OPD and IPD rounds2. Attendance in speciality clinics3. Presentation of 2 worked up cases4. Portfolio entry5. Logbook entry6. Daily attendance.7. Participation in seminar presentation	
Other comments		

Annexure-32E of AC-46/2023

ANNEXURE 6E

Elective Posting- CHILD PSYCHIATRY

Name of Block	Block 2
Name of elective	CHILD PSYCHIATRY
Location of training	Psychiatry OPD, Child and adolescent Psychiatry speciality clinic
Name of internal preceptor	Dr Darpan Kaur, Professor of Psychiatry Child & Adolescent psychiatry clinic in-charge
Name of external preceptor	Nil
Learning objectives of electives	 6. To gain knowledge on various types of child and adolescent psychiatric disorders prevalent in the region 7. To learn primary care of child psychiatric disorders 8. To learn history taking, MSE and diagnostic formulation in child & adolescent psychiatry as per CAP clinic proforma 9. To learn to apply relevant rating scales in child psychiatry 10. To gain insights into paediatric psychopharmacology, psychological testing & psychotherapy 11. To learn multi-disciplinary management of child & adolescent psychological problems.
Number of students that can be accommodated in this elective	2
Pre-requisites for this elective	Interest in child & adolescent psychiatry
List of activities and student participation	 Attending psychiatry OPD daily 9am to 1pm Attending speciality child & adolescent psychiatry OPD on Tuesday & Friday 2-4pm Attending grand rounds on Monday and Wednesday Attending CLP references from

	 departments for management of child & adolescent psychiatric disorders along with PG residents Observing the application of Cap clinic detailed proforma. Participate in history-taking and mental status examination of a child & adolescent with psychiatric disorders. Applying scales relevant to child & adolescent psychiatry. Observing and participating in application of psychometric testing. Observe and participate in psychoeducation and psychotherapy of children and adolescent and their parents/ caregivers. Present at least 2 cases to preceptor Participate in a short research project / seminar presentation on the tonic
	seminar presentation on the topic relevant to child & adolescent psychiatry
Learning resources	 Niraj Ahuja textbook of psychiatry for UG (refer chapters relevant to child & adolescent psychiatry) Lewis textbook of child & adolescent psychiatry Synopsis of psychiatry (refer chapters relevant to child & adolescent psychiatry)
Portfolio entries required	Assignments provided: 1. Two fully worked up case records that have been presented. 2. Management plan discussed
Logbook entry required	Satisfactory completion of posting with an M grade (meets expectation)
Assessment	 75% Attendance Formative: Participation of OPD and IPD rounds Attendance in speciality clinics Presentation of 2 worked up cases Portfolio entry Logbook entry Daily attendance. Participation in seminar presentation/ research work.
Other comments	

Annexure-32F of AC-46/2023

ANNEXURE 6F

Elective Posting- LEPROSY

1	Name of Block	2
2	Name of Elective	1.Examination of Leprosy case 2.Preparation of slit skin smear
3	Location of Hospital lab or research facility Name of Internal Preceptor	Dermatology opd/ward MGM Medical college and Hospital, Kamothe Dr. Shylaja Someshwar
5	Name of External Preceptor	Nil
6	Learning objectives of the elective	 To take detailed history of patient of leprosy To examine leprosy patient to check for clinical lesions, nerves, sensations, deformities, trophic ulcers and systemic examination To learn preparation of slit skin smear from resident/technician
7	Number of students that can be accommodated in this elective	4-6
8	Prerequisites for the elective	Universal precautions
9	Learning resource for the students	IADVL text book of dermatology , fourth edition, volume 3 , 2015 Section XX-Section Editor: P Narasimha Roa, pgs 3059- 3219
10	List of activities in which student will be participating	 Participate in history taking and clinical examination of a patient of leprosy Observe procedure of slit skin smear in opd/ward Participate in patient education and obtaining

		 consent before taking slit skin smear Participate in postoperative care of the patient after taking slit skin smear
11	Portfolio entries required	Present at least 2 cases of leprosy (fully worked) in teaching session Assignments provided 2 worked up case records of leprosy
12	Log book entries required	Documentation of SDL viz summary, reflection Completion of posting signed by preceptor
13	Assessment	 Attendance 75% compulsory Satisfactory completion of posting signed by preceptor Formative participation in ward rounds & team activities. Presentation of worked up cases Documentation of attendance and required portfolio and logbook entries
14	Other comments	None

Annexure-32G of AC-46/2023

ANNEXURE 6G

Elective Posting- STI

1	Name of Block	2
2	Name of Elective	 Examination of STI case Preparation of gram stain
3	Location of Hospital lab orresearch facility	Dermatology opd/ward MGM Medical college and Hospital, Kamothe
4	Name of Internal Preceptor	Dr. Meghana Phiske
5	Name of External Preceptor	Nil
6	Learning objectives of	• To take detailed history of patient of
	theelective	STI
		• To examine STI patient to check for
		clinical lesions, lymph nodes and
		systemic examination
		• To learn preparation of gram stain from resident
7	Number of students that can be	4-6
	accommodated in this elective	
8	Prerequisites for the elective	Universal precautions
9	Learning resource for thestudents	IADVL text book of dermatology , fourth edition, volume 3 , 2015
		Section XVIII-Section Editor- Jayadev Betkerur, pgs 2723-2928

10	List of activities in	
	which student will be	• Participate in history taking and
	participating	clinical examination of a patient of
		STI
		 Observe procedure of gram stain in opd/ward Participate in patient education and
		obtaining consent before taking gram
		stain
		• Participate in postoperative care of the patient after taking gram stain
		Present at least 2 cases of STI (fully worked) in
		teaching session
11	Portfolio entries required	Assignments provided
		• 2 worked up case records of STI
		• Documentation of SDL viz summary, reflection
12	Log book entries required	Completion of posting signed by preceptor
13	Assessment	 Attendance 75% compulsory Satisfactory completion of posting signed by preceptor
		• Formative participation in ward rounds
		& team activities.
		• Presentation of worked up cases
		• Documentation of attendance and
		required portfolio and logbook
		entries
14	Other comments	None