

ELECTIVE BLOCK 1 (for MBBS BATCH 20-21)

Name of Elective	Department	Name of Preceptor	No. of students
Preparation Of Museum Specimen	Anatomy	Dr Rajarshi Datta/ Dr.Anusuya Addhya	4
Learning Radiological Anatomy	Anatomy	Dr Kaushik Ray	4
Anatomy Model Making	Anatomy	Dr Rajasri Chunder	4
Anthropometric measurements	Anatomy	Dr.Sayantani Majumdar	4
Morphometric Measurement of Dry Bone	Anatomy	Dr.Arпита Sarkar	4
L J –Chart Monitoring	Biochemistry	Dr Maitrayee Basu, Dr Avik Roy, Dr Pallab Bera	6
Electrophoresis	Biochemistry	Dr Avik Roy, Dr Pallab Bera, Dr Munmun Saha	6
Profile of poisoning patients attending JIMSH in last three years	FMT	Dr Choitali Goswami	5
Profile of Trauma patients Attending JIMSH	FMT	Dr Alakesh Haldar	5
Determination of Stature from different Body Parts	FMT	Dr Alakesh Haldar	5
Estimation of Stress Among Medical Students	FMT	Dr Choitali Goswami	5
Prevalence of hepatitis B virus among patients attending a tertiary care centre in Eastern India	Microbiology	Dr. Arпита Sarkar and Mr. Aditya Tiwari	5
To study the prevalence of hepatitis C virus among indoor and outdoor patients at JIMSH	Microbiology	Dr. Syamal Modi and Dr. Avranil Goswami	5
Prevalence of HIV among patients attending a tertiary care centre in Eastern India	Microbiology	Dr. Nibedita Debnath and Ms. Moutusi Dey	5
To study the prevalence of intestinal parasites in a tertiary care centre in Eastern India	Microbiology	Dr. Syamal Modi and Ms. Moutusi Dey	5
Study of the incidence of ESBL production among the Enterobacterial infections at JIMSH	Microbiology	Dr. Nibedita Debnath and Mr. Aditya Tiwari	5
Study of the incidence of MRSA infections among patients attending a tertiary care centre in Eastern India	Microbiology	Dr. Arпита Sarkar and Dr. Avranil Goswami	5
Biopsy Specimen Handling In Pathology Lab	Pathology	Dr. Shreya Kar	6

Collection & Handling of Blood Sample	Pathology	Dr. Ayesa Abid	6
Histopathological Technique	Pathology	Dr. Sanchita Biswas	6
Exposure to Cytological Lab –FNAC & Exfoliative Cytology	Pathology	Dr. Soumik Sarkar	6
CPC (Clinico-Pathological Correlation) – Its Importance For Better Approach To Patients	Pathology	Dr. Smita Priyam	6
Research (Preceptor Initiated) Drug Utilization Study In Patients Of Hypertension Attending Medicine OPD In A Tertiary Care Setup.	Pharmacology	Dr. Paramita Pal, Dr. Sughandha Garg, Dr. Joydeep Bhaduri, ,	6
Research (Preceptor Initiated) Drug Utilization Study In Patients Of Diabetes Mellitus Attending Medicine OPD In A Tertiary Care Setup.	Pharmacology	Dr. Pradipta Das, Dr. Jaideep Bhaduri, Dr. Paramita Pal, Dr. Sughandha Garg,	6
Pharmacovigilance (Project) Identifying, Recording And Reporting Adrs In A Tertiary Care Setup And Uploading The Collected Data To IPC Database By Vigiflow Software.	Pharmacology	Dr. Jaideep Bhaduri, Dr. Paramita Pal, Dr. Sughandha Garg, Dr. Pradipta Das	6
Research (Preceptor Initiated) Drug Utilization Study In Patients Of DS And DR Tb Attending NTEP Clinic In A Tertiary Care Setup.	Pharmacology	Dr. Sughandha Garg, Dr. Pradipta Das, Dr. Jaideep Bhaduri, Dr. Paramita Pal	6
Effect of exercise and posture on heart rate, respiration & BP	Physiology	Prof. Dr. Debarati Chanda Dr. Aparajita Ray Dr. Tanusree Nath	6
Study of Perimetry & visual field in health.	Physiology	Prof. Dr. Debarati Chanda Dr. Tanusree Nath Dr. Saswati Ray	6
ECG	Physiology	Dr. Saswati Ray Dr. Omkar Prasad Baidya Dr. Aparajita Ray	6

Elective 1: Preparation of museum specimen

Name of Block	Block 1
Name of Elective	Preparation of museum specimen
Location of hospital Lab or research facility	Dept. of Anatomy, JIMSH
Name of internal preceptor(s)	Dr Rajarshi Datta/ Dr Anusuya Addhya
Name of external preceptor (if any)	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. To dissect viscera from cadaver 2. To mount viscera for display 3. To make museum portfolio
Number of students that can be accommodated in this elective	2
Prerequisites for elective	<p>Basic knowledge of Human Anatomy. Universal precautions and Good laboratory practice modules to be completed</p>
Learning Resources for students	Departmental handbook provided
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Work daily with a supervisor in departmental Museum to prepare museum specimen 2. update the museum portfolio 3. Participate in departmental education activities
Portfolio entries required	
Log book entry required	Successful completion of the posting as certified in the log book with a “meets expectation ‘M’ grade
Assessment	<p>Formative: attendance;</p> <p>day-to-day participation in departmental activity;</p> <p>performance of assigned tasks</p>
Other comments	

Elective 2: Learning radiological anatomy

Name of Block	Block 1
Name of Elective	Radiological anatomy
Location of hospital Lab or research facility	Dept. of Anatomy, JIMSH
Name of internal preceptor(s)	Dr Kaushik Ray
Name of external preceptor (if any)	N/A
Learning objectives of elective	<ol style="list-style-type: none">1. Recognize and identify structures on imaging studies2. Describe the anatomic configuration of the structures in relation to other nearby structures, as learned in gross anatomy
Number of students that can be accommodated in this elective	4
Prerequisites for elective	Basic knowledge of Human Anatomy and radiology
Learning Resources for students	Textbook of radiological anatomy
List of activities in which the student will participate	<ol style="list-style-type: none">1. Work daily with a supervisor in department2. Participate in departmental education activities
Portfolio entries required	
Log book entry required	Successful completion of the posting as certified in the log book with a "meets expectation 'M' grade
Assessment	Formative: attendance; day-to-day participation in departmental activity; performance of assigned tasks
Other comments	

Elective 3: Anatomy model making

Name of Block	Block 1
Name of Elective	Anatomy model making
Location of hospital Lab or research facility	Dept. of Anatomy, JIMSH
Name of internal preceptor(s)	Dr Rajasri Chunder
Name of external preceptor (if any)	N/A
Learning objectives of elective	1.to better understanding of anatomy 2. to develop skill of construction of structures from deep to superficial plane.
Number of students that can be accommodated in this elective	4
Prerequisites for elective	Basic knowledge of Human Anatomy. Interest in arts and crafts
Learning Resources for students	Departmental handbook provided
List of activities in which the student will participate	1. Work daily with a supervisor in department 2. Participate in departmental education activities
Portfolio entries required	
Log book entry required	Successful completion of the posting as certified in the log book with a “meets expectation ‘M’ grade
Assessment	Formative: attendance; day-to-day participation in departmental activity; performance of assigned tasks
Other comments	

Elective 4: Anthropometric measurements

Name of Block	BLOCK 1
Name of Elective	ANTHROPOMETRIC MEASUREMENTS
Name of internal preceptor(s)	Dr.Sayantani Majumdar
Name of external preceptor (if any)	Dr.Sushanta Bhanja
Learning objectives of the elective	At the end of the session, the students should be able to 1.Enumerate the cranio facial abnormalities present in beta Thalassemia major patients requiring transfusion. 2.Measure the craniofacial parameters of beta Thalassemia major patients accurately using Digital Vernier Callipers. 3.Review of literature of past 5 years of research work on correlation between craniofacial abnormalities in Beta Thalassemia Major patients and blood transfusion received.
Number of students that can be accommodated in this elective	4
Prerequisites for the elective	Digital Vernier Callipers Beta Thalassemia Major patients in the paediatric Department.
Learning resources for students	Departmental handbook provided
List of activities in which the student will participate	1.Regular Visit to the Paediatrics Department to measure the craniofacial parameters of beta Thalassemia major patients accurately using Digital Vernier Callipers under supervision. 2.To maintain patient case record sheets. 3.Regular research work in the departmental library regarding Review of literature. 4.Presentation of the summary of the data collected in 2 weeks
Portfolio entries required	1. Documentation of worked up cases 2. Documentation of presentation done.
Log book entry required	Completion of posting signed by preceptor with a “meets expectation ‘(M)’ grade
Assessment	Formative: attendance; day-to-day participation in departmental activity; performance of assigned tasks and presentation of worked up case in department
Other comments	Future coordination with the Primary Preceptors will be encouraged for completion of the research project on “Craniofacial Anthropometric Study of Transfusion Dependent Beta-Thalassemia Major Children in aTertiary Care Hospital”

Elective 5: Morphometric Measurement of Dry Bone

Name of Block	BLOCK 1
Name of Elective	Morphometric Measurement of Dry Bone
Name of internal preceptor(s)	Dr. Arpita Sarkar
Name of external preceptor (if any)	
Learning objectives of the elective	<p>At the end of the session, the students should be able to</p> <ol style="list-style-type: none"> 1. describe the anatomy of pterion and its clinical importance 2. Measure different parameters of pterion accurately using Digital Vernier Callipers. 3. Review of literature of past 5 years of research work on morphometry of pterion
Number of students that can be accommodated in this elective	4
Prerequisites for the elective	<p>-Digital Vernier Callipers</p> <p>- Skull (Dry bone) from Anatomy Department.</p>
Learning resources for students	Departmental handbook provided
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. To measure different parameter of pterion 2. To maintain record sheets. 3. Regular research work in the departmental library regarding the review of literature. 4. Presentation of the summary of the data collected in 2 weeks
Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of worked up cases 2. Documentation of presentation done.
Log book entry required	Completion of posting signed by preceptor with a "meets expectation '(M)' grade
Assessment	Formative: attendance; day-to-day participation in departmental activity; performance of assigned tasks and presentation of worked up case in department
Other comments	

DEPARTMENT OF BIOCHEMISTRY**Elective 1: L J –Chart Monitoring**

Name of Block	Block 1
Name of Elective	L J –Chart Monitoring
Location of hospital Lab or research facility	Department of Biochemistry , Clinical Laboratory
Name of internal preceptor(s)	DR.MAITRAYEE BASU DR AVIK ROY DR.PALLAB BERA
Name of external preceptor (if any)	N.A
Learning objectives of elective	1. Reading of L.J Chart 2. Quality Control Assessment
Number of students that can be accommodated in this elective	6
Prerequisites for elective	Basic Knowledge on Clinical Biochemistry and Basic Laboratory Management should be completed.
Learning Resources for students	Departmental Handbook Provided.
List of activities in which the student will participate	1. Daily Supervising Of L-J Chart in the clinical Laboratory. 2. Update the value of L-J Chart and Documentation. 3. Participation on Departmental Activities.
Portfolio entries required	
Log book entry required	Successful Completion Of The Posting as certified in the logbook with a “Meets Expectation M grade.
Assessment	Formative Attendance Day-To-Day Participation of Departmental Activities.
Other comments	

Elective 2: Electrophoresis

Name of Block	Block 1
Name of Elective	Electrophoretic Slide Preparation Of Multiple Myeloma and Kidney Disease Patient
Location of hospital Lab or research facility	Department Of Biochemistry , JIMS
Name of internal preceptor(s)	<ol style="list-style-type: none"> 1. DR. AVIK ROY 2. DR. PALLAB BERA 3. DR. MUNMUN SAHA
Name of external preceptor (if any)	N.A
Learning objectives of elective	<ol style="list-style-type: none"> 1. Preparation of Gel. 2. Buffer Preparation. 3. Preparation of Slide. 4. Interpretation of the results.
Number of students that can be accommodated in this elective	6
Prerequisites for elective	Basic Knowledge on Clinical Biochemistry and Basic Laboratory Management should be completed.
Learning Resources for students	Departmental Handbook Provided
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Work daily under the supervisor. 2. Participation On Departmental Activities .
Portfolio entries required	
Log book entry required	Successful Completion Of The Posting as certified in the logbook with a “ Meets Expectation M grade.
Assessment	Formative Attendance Day To Day Participation of Departmental Activities
Other comments	

Elective 1: Profile of poisoning patients attending JIMSH in last three years

Name of Block	Block 1
Name of Elective	Poisoning Profile of patients admitted and attending casualty/OPD in JIMSH
Location of hospital Lab or research facility	Wards OPD and Casualty
Name of internal preceptor(s)	Dr Choitali Goswami
Name of external preceptor (if any)	Dr Shibendu Ghosh HOD, Medicine
Learning objectives of elective	Types of poisoning Nature effects ,Socio medicolegal and ethical issues
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Knowledge of Toxicological investigation and epidemiological study
Learning Resources for students	Patients, Relatives, Friends and Police
List of activities in which the student will participate	Take the history, Collection of data by pretested validated question scales follow up Medico legal Reporting Collection of evidences
Portfolio entries required	yes
Log book entry required	yes
Assessment	Presentation in Seminar, Viva voce, Group discussion
Other comments	Helps in clinical exposure to toxicology Reporting and Collection of evidences

Elective 2: Profile of trauma patients attending JIMSH

Name of Block	Block 1
Name of Elective	Trauma Profile of patients attending JIMSH
Location of hospital Lab or research facility	Wards OPD and Casualty
Name of internal preceptor(s)	Dr Alakesh Halдар
Name of external preceptor (if any)	Dr. S. K. Gupta HOD, Surgery
Learning objectives of elective	Types of Injuries Nature effects ,Socio medico legal and ethical issues
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Knowledge of Trauma investigation and epidemiological study
Learning Resources for students	Patients, Relatives, Friends and Police
List of activities in which the student will participate	Take the history, Collection of data by pretested validated question scales follow up Medico legal reporting
Portfolio entries required	yes
Log book entry required	yes
Assessment	Presentation in Seminar, Viva voce, Group discussion
Other comments	Helps in clinical exposure to injury cases and medico legal reporting

Elective 3: Determination of Stature from different body parts

Name of Block	Block 1
Name of Elective	Determination of Stature from body parts
Location of hospital Lab or research facility	Dept and Hostel
Name of internal preceptor(s)	Dr Alakesh Haldar Asst. Professor
Name of external preceptor (if any)	Nil
Learning objectives of elective	Different techniques to find out stature and ratio of some body parts like length of foot and stature
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Knowledge of lab anthropometry
Learning Resources for students	Anthropology books
List of activities in which the student will participate	Measure foot length, or length of ear etc and stature of good number of volunteers and try to find a ratio
Portfolio entries required	yes
Log book entry required	yes
Assessment	Presentation in Seminar, Viva voce, Group discussion
Other comments	Helps to develop anthropometric skill

Elective 4: Estimation of stress among medical students

Name of Block	Block 1
Name of Elective	Estimation of stress among medical students
Location of hospital Lab or research facility	Dept and Hostel
Name of internal preceptor(s)	Dr Choitali Goswami Asst. Professor
Name of external preceptor (if any)	Dr Ambarish Ghosh, Deptt of Psychiatry
Learning objectives of elective	Stress pattern of Medical Students in different batches having different time frame like pre and post exam
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Knowledge and skill of assessment
Learning Resources for students	Books and internet
List of activities in which the student will participate	Take the history, Collection of data by pretested validated question scales bias correction data presentation Reporting
Portfolio entries required	yes
Log book entry required	yes
Assessment	Presentation in Seminar, Viva voce, Group discussion
Other comments	Helps to develop communication skill and epidemiological data collection and interpretation

DEPARTMENT OF MICROBIOLOGY

**Elective 1: PREVALENCE OF HEPATITIS B VIRUS AMONG PATIENTS
ATTENDING A TERTIARY CARE CENTRE IN EASTERN INDIA**

Name of Block	Block 1
Name of Elective	Prevalence of hepatitis B virus among patients attending a tertiary care centre in Eastern India
Location of hospital lab or research facility	Department of Microbiology, JIMSH
Name of internal preceptor(s)	Dr. Arpita Sarkar and Mr. Aditya Tiwari
Name of external preceptor (if any)	N/A
Learning objectives of elective	1. To observe the methods of HBsAg detection 2. To know the other tests done for HBV diagnosis 3. Compile and analyze the HBsAg positivity during the specified period
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Access to Laboratory Resources
Learning Resources for students	1. Topley And Wilson's Microbiology 2. Mackie & McCartney Practical Medical Microbiology 3. HBsAg Kit insert
List of activities in which the student will participate	1. Work under supervision and participate in HBsAg testing methods 2. Compilation & Analysis of data 3. Write an Abstract of the work done
Portfolio entries required	Documentation of the data collected Documentation of presentation done
Log book entry required	Satisfactory completion of posting with a "Meets Expectation (M)" grade
Assessment	Daily Attendance Day-to-day participation in departmental activity Performance of assigned tasks Presentation of the compiled and analyzed data
Other comments	Nil

**Elective 2: TO STUDY THE PREVALENCE OF HEPATITIS C VIRUS
AMONG INDOOR AND OUTDOOR PATIENTS AT JIMSH**

Name of Block	Block 1
Name of Elective	To study the prevalence of hepatitis C virus among indoor and outdoor patients at JIMSH
Location of hospital lab or research facility	Department of Microbiology, JIMSH
Name of internal preceptor(s)	Dr. Syamal Modi and Dr. Avranil Goswami
Name of external preceptor (if any)	N/A
Learning objectives of elective	1.To observe the methods of anti-HCV detection 2.To know the other tests done for HCV diagnosis 3.Compile and analyze the HCV positivity during the specified period
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Access to Laboratory Resources
Learning Resources for students	1. Topley And Wilson’s Microbiology 2. Mackie & McCartney Practical Medical Microbiology 3. Anti-HCV Kit insert
List of activities in which the student will participate	1. Work under supervision and participate in HCV testing methods 2. Compilation & Analysis of data 3. Write an Abstract of the work done
Portfolio entries required	Documentation of the data collected Documentation of presentation done
Log book entry required	Satisfactory completion of posting with a “Meets Expectation (M)” grade
Assessment	Daily Attendance Day-to-day participation in departmental activity Performance of assigned tasks Presentation of the compiled and analyzed data
Other comments	Nil

**Elective 3: PREVALENCE OF HIV AMONG PATIENTS ATTENDING A
TERTIARY CARE CENTRE IN EASTERN INDIA**

Name of Block	Block 1
Name of Elective	Prevalence of HIV among patients attending a tertiary care centre in Eastern India
Location of hospital lab or research facility	Department of Microbiology, JIMSH
Name of internal preceptor(s)	Dr. Nibedita Debnath and Ms. Moutusi Dey
Name of external preceptor (if any)	N/A
Learning objectives of elective	1. To observe the methods of anti-HIV detection 2. To know the other tests done for HIV diagnosis 3. Compile and analyze the HIV positivity during the specified period
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Access to Laboratory Resources
Learning Resources for students	1. Topley and Wilson's Microbiology 2. Mackie & McCartney Practical Medical Microbiology 3. Anti-HIV Kit insert
List of activities in which the student will participate	1. Work under supervision and participate in HIV testing methods 2. Compilation & Analysis of data 3. Write an Abstract of the work done
Portfolio entries required	Documentation of the data collected Documentation of presentation done
Log book entry required	Satisfactory completion of posting with a "Meets Expectation (M)" grade
Assessment	Daily Attendance Day-to-day participation in departmental activity Performance of assigned tasks Presentation of the compiled and analyzed data
Other comments	Nil

**Elective 4: TO STUDY THE PREVALENCE OF INTESTINAL PARASITES
IN A TERTIARY CARE CENTRE IN EASTERN INDIA**

Name of Block	Block 1
Name of Elective	To study the prevalence of intestinal parasites in a tertiary care centre in Eastern India
Location of hospital lab or research facility	Department of Microbiology, JIMSH
Name of internal preceptor(s)	Dr. Syamal Modi and Ms. Moutusi Dey
Name of external preceptor (if any)	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. To know about collection of stool sample 2. To prepare and examine normal saline and iodine wet mounts from the given samples 3. To observe and record the findings 4. Compile and analyze the data during the specified period
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Access to Laboratory Resources
Learning Resources for students	<ol style="list-style-type: none"> 1. Topley and Wilson's Microbiology 2. Mackie & McCartney Practical Medical Microbiology 3. K.D. Chatterjee's Parasitology
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Work under supervision and participate in stool R/E testing 2. Compilation & Analysis of data 3. Write an Abstract of the work done
Portfolio entries required	Documentation of the data collected Documentation of presentation done
Log book entry required	Satisfactory completion of posting with a "Meets Expectation (M)" grade
Assessment	Daily Attendance Day-to-day participation in departmental activity Performance of assigned tasks Presentation of the compiled and analyzed data
Other comments	Nil

**Elective 5: STUDY OF THE INCIDENCE OF ESBL PRODUCTION
AMONG THE ENTEROBACTERIAL INFECTIONS AT JIMSH**

Name of Block	Block 1
Name of Elective	Study of the incidence of ESBL production among the Enterobacterial infections at JIMSH
Location of hospital lab or research facility	Department of Microbiology, JIMSH
Name of internal preceptor(s)	Dr. Nibedita Debnath and Mr. Aditya Tiwari
Name of external preceptor (if any)	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. To observe and perform bacterial culture of various samples 2. To observe and participate in identification of isolates 3. To observe antimicrobial susceptibility testing and ESBL screening methods 4. Compile and analyze the data during the specified period
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Access to Laboratory Resources
Learning Resources for students	<ol style="list-style-type: none"> 1. Topley And Wilson's Microbiology 2. Mackie & McCartney Practical Medical Microbiology 3. Koneman's textbook of Diagnostic Microbiology
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Work under supervision and participate in routine culture and AST along with ESBL screening 2. Compilation & Analysis of data 3. Write an Abstract of the work done
Portfolio entries required	Documentation of the data collected Documentation of presentation done
Log book entry required	Satisfactory completion of posting with a "Meets Expectation (M)" grade
Assessment	Daily Attendance Day-to-day participation in departmental activity Performance of assigned tasks Presentation of the compiled and analyzed data
Other comments	Nil

**Elective 6: STUDY OF THE INCIDENCE OF MRSA INFECTIONS
AMONG PATIENTS ATTENDING A TERTIARY CARE CENTRE IN
EASTERN INDIA**

Name of Block	Block 1
Name of Elective	Study of the incidence of MRSA infections among patients attending a tertiary care centre in Eastern India
Location of hospital lab or research facility	Department of Microbiology, JIMSH
Name of internal preceptor(s)	Dr. Arpita Sarkar and Dr. Avranil Goswami
Name of external preceptor (if any)	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. To observe and perform bacterial culture of various samples 2. To observe and participate in identification of <i>Staphylococcus aureus</i> 3. To observe antimicrobial susceptibility testing and MRSA screening methods 4. Compile and analyze the data during the specified period
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Access to Laboratory Resources
Learning Resources for students	<ol style="list-style-type: none"> 1. Topley and Wilson's Microbiology 2. Mackie & McCartney Practical Medical Microbiology 3. Koneman's textbook of Diagnostic Microbiology
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Work under supervision and participate in routine culture and AST along with MRSA screening 2. Compilation & Analysis of data 3. Write an Abstract of the work done
Portfolio entries required	Documentation of the data collected Documentation of presentation done
Log book entry required	Satisfactory completion of posting with a "Meets Expectation (M)" grade
Assessment	Daily Attendance Day-to-day participation in departmental activity Performance of assigned tasks Presentation of the compiled and analyzed data
Other comments	Nil

Elective 1: Biopsy specimen handling in Pathology Lab

Name of Block	Block 1
Name of Elective	Biopsy specimen handling in Pathology Lab
Location of hospital Lab or research facility	Central Lab, JIMSH
Name of internal preceptor(s)	Dr. Shreya Kar, Pathology Dept.
Name of external preceptor (if any)	Nil
Learning objectives of elective	<p>To know how to receive a biopsy specimen coming in the Lab.</p> <p>Recording of details of pt. & tests.</p> <p>To note whether the specimen is in preservative or not.</p> <p>Transfer the specimen to area of processing of specimen.</p> <p>Steps required to process the specimen.</p>
Number of students that can be accommodated in this elective	6 students.
Prerequisites for elective	Immunization against Hepatitis B virus.
Learning Resources for students	Practical text book.
List of activities in which the student will participate	<p>Work daily in the tissue reception area.</p> <p>Observe, assist & finally perform the steps as followed by Seniors/ Supervisor in specimen handling.</p>
Portfolio entries required	<p>Documentation of cases handled.</p> <p>Documentation of presentation done.</p>
Log book entry required	Completion of posting to be signed by Preceptor with a "meet expectation" (M) grade.
Assessment	<p>Formative – daily attendance.</p> <p>Day-to-day participation in departmental activities.</p> <p>Performance of assigned tasks and presentation of worked up case in the department.</p>
Other comments	

Elective 2: Collection & handling of blood sample

Name of Block	Block 1
Name of Elective	Collection & handling of blood sample
Location of hospital Lab or research facility	Central Lab, JIMSH
Name of internal preceptor(s)	Dr. Ayesa Abid, Pathology Dept.
Name of external preceptor (if any)	Nil
Learning objectives of elective	<ol style="list-style-type: none"> 1. To know nature & material required for the test. 2. To know procedure of blood collection smear preparation. 3. Patients' details are to be noted. 4. Blood sample to be sent to central lab for further processing.
Number of students that can be accommodated in this elective	6 students.
Prerequisites for elective	To come with Apron, gloves .
Learning Resources for students	<p>Guidance from trained technicians/ seniors/ Preceptor.</p> <p>Practical text book.</p>
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Work daily in the blood sample reception area. 2. To observe & analyse the requisitions coming from wards/ OPDs. 3. Collection of blood sample, smear preparation. 4. Staining of smears & run blood in automated cell counter. 5. To ask Seniors/ Preceptor in difficult cases e.g. children.
Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of requisitions handled. 2. Documentation of presentation done.
Log book entry required	Completion of posting to be signed by Preceptor with a "meet expectation" (M) grade.
Assessment	<p>Formative – daily attendance.</p> <p>Day-to-day participation in departmental activities.</p> <p>Performance of assigned tasks and presentation of worked up case in the department.</p>
Other comments	

Elective 3: Histopathological technique

Name of Block	Block 1
Name of Elective	Histopathological technique
Location of hospital Lab or research facility	Central Lab, JIMSH
Name of internal preceptor(s)	Dr. Sanchita Biswas, Pathology Dept.
Name of external preceptor (if any)	Nil
Learning objectives of elective	<ol style="list-style-type: none"> 5. To know that the sample is in proper fixative. 6. To know different steps done in tissue processing. 7. To know the significance of various steps. 8. Patients' details are to be noted.
Number of students that can be accommodated in this elective	6 students.
Prerequisites for elective	Vaccination against Hepatitis B virus.
Learning Resources for students	<p>Guidance from seniors/ Preceptor.</p> <p>Practical text book.</p>
List of activities in which the student will participate	<ol style="list-style-type: none"> 6. Work daily in the tissue reception area. 7. To observe, assist & perform the tissue processing done in lab. 8. To ask Seniors/ Preceptor about further correction.
Portfolio entries required	<ol style="list-style-type: none"> 3. Documentation of cases which were handled by him. 4. Documentation of presentation done.
Log book entry required	Completion of posting to be signed by Preceptor with a "meet expectation" (M) grade.
Assessment	<p>Formative – daily attendance.</p> <p>Day-to-day participation in departmental activities.</p> <p>Performance of assigned tasks and presentation of worked up case in the department.</p>
Other comments	

Elective 4: Exposure to cytological Lab –FNAC & Exfoliative cytology

Name of Block	Block 1
Name of Elective	Exposure to cytological Lab –FNAC & Exfoliative cytology
Location of hospital Lab or research facility	Central Lab, JIMSH
Name of internal preceptor(s)	Dr. Soumick Sarkar, Pathology Dept.
Name of external preceptor (if any)	Nil
Learning objectives of elective	<ol style="list-style-type: none"> 9. To know the different types of sample required for cytological study. 10. To know different tests that are performed in cytology sample. 11. To know the significance of various tests that are done in cytology sample. . 12. Participate in tests performed in the lab.
Number of students that can be accommodated in this elective	6 students.
Prerequisites for elective	Vaccination against Hepatitis B virus.
Learning Resources for students	<p>Guidance from seniors/ Preceptor.</p> <p>Practical text book.</p>
List of activities in which the student will participate	<ol style="list-style-type: none"> 9. Work daily in the sample reception area. 10. To observe, assist & perform the tests in the supplied sample. 11. To ask Seniors/ Preceptor about further information wherever reuired.
Portfolio entries required	<ol style="list-style-type: none"> 5. Documentation of cases which were handled by him. 6. Documentation of presentation done.
Log book entry required	Completion of posting to be signed by Preceptor with a “meet expectation” (M) grade.
Assessment	<p>Formative – daily attendance.</p> <p>Day-to-day participation in departmental activities.</p> <p>Performance of assigned tasks and presentation of worked up case in the department.</p>
Other comments	

Elective 5: CPC (Clinico-pathological correlation) – its importance for better approach to patients

Name of Block	Block 1
Name of Elective	CPC (Clinico-pathological correlation) – its importance for better approach to patients
Location of hospital Lab or research facility	Central Lab, JIMSH
Name of internal preceptor(s)	Dr. Smita Priyam, Pathology Dept.
Name of external preceptor (if any)	Nil
Learning objectives of elective	<ul style="list-style-type: none"> 13. To know basis/ significance of CPC. 14. To know details of tests & pts. Clinical findings. 15. Participate in CPC (may be mock) in the Lab along with pt.'s history.
Number of students that can be accommodated in this elective	6 students.
Prerequisites for elective	Nothing specific
Learning Resources for students	<p>Guidance from seniors/ Preceptor.</p> <p>Interaction with colleagues in clinical departments.</p>
List of activities in which the student will participate	<ul style="list-style-type: none"> 12. Work daily in the Lab & note different tests done. 13. To observe & participate in CPC that may be held during his tenure.
Portfolio entries required	<ul style="list-style-type: none"> 7. Documentation of cases where participated in CPC. 8. Documentation of presentation done.
Log book entry required	Completion of posting to be signed by Preceptor with a “meet expectation” (M) grade.
Assessment	<p>Formative – daily attendance.</p> <p>Day-to-day participation in departmental activities.</p> <p>Performance of assigned tasks and presentation of worked up case in the department.</p>
Other comments	

Elective 1: Research (preceptor initiated) Drug Utilization Study in patients of hypertension attending medicine OPD in a tertiary care setup.

Name of Block	Block 1
Name of Elective	Research (preceptor initiated) Drug Utilization Study in patients of hypertension attending medicine OPD in a tertiary care setup.
Location of hospital Lab or research facility	Department of Pharmacology, Department of Medicine - Medical College Hospital, JIMSH, Budge Budge
Name of internal preceptor(s)	Dr. Paramita Pal, Dr. Sughandha Garg, Dr. Joydeep Bhaduri
Name of external preceptor (if any)	N.A.
Learning objectives of elective	<ol style="list-style-type: none"> 1. To collect data as prescribed in study protocol 2. To document data in the electronic case record correctly 3. To demonstrate the use of statistical software to do basic research calculations 4. To write an abstract based on collected data 5. To present abstract to a group of peers and supervisors
Number of students that can be accommodated in this elective	6
Prerequisites for elective	Necessary immunisations.
Learning Resources for students	<ol style="list-style-type: none"> 1. Indian Journal of Pharmacology 2. Indian journal of clinical cardiology 3. Indian Heart journal 4. Related articles provided by department
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Work with superior to in making observations, collect data and document as per protocol 2. Work with statistician to provide the statistical analysis of the data 3. Write abstract of work done 4. Participate in research meetings of department, internal and external meetings 5. Present abstract in an internal , meeting and if possible at an external meeting as a poster or oral presentation.
Portfolio entries required	Statistical worksheet, Abstract created
Log book entry required	Satisfactory completion of posting authenticated by preceptor
Assessment	<ol style="list-style-type: none"> 1. Attendance 2. successful verification of required portfolio entries 3. Successful completion of posting as certified in log book with a “meet expectation” M grade.
Other comments	

Elective 2: Research (preceptor initiated) Drug Utilization Study in patients of Diabetes Mellitus attending Medicine OPD in a tertiary care setup.

Name of Block	Block 1
Name of Elective	Research (preceptor initiated) Drug Utilization Study in patients of Diabetes Mellitus attending Medicine OPD in a tertiary care setup.
Location of hospital Lab or research facility	Department of Pharmacology, Department of Medicine - Medical College Hospital, JIMSH, Budge Budge
Name of internal preceptor(s)	Dr. Pradipta Das, Dr. Jaideep Bhaduri, Dr. Paramita Pal, Dr. Sughandha Garg,
Name of external preceptor (if any)	N.A.
Learning objectives of elective	<ol style="list-style-type: none"> 6. To collect data as prescribed in study protocol 7. To document data in the electronic case record correctly 8. To demonstrate the use of statistical software to do basic research calculations 9. To write an abstract based on collected data 10. To present abstract to a group of peers and supervisors
Number of students that can be accommodated in this elective	6
Prerequisites for elective	Necessary immunisations.
Learning Resources for students	<ol style="list-style-type: none"> 5. Indian Journal of Pharmacology 6. Indian journal of endocrinology and metabolism 7. Related articles provided by department
List of activities in which the student will participate	<ol style="list-style-type: none"> 6. Work with superior to in making observations, collect data and document as per protocol 7. Work with statistician to provide the statistical analysis of the data 8. Write abstract of work done 9. Participate in research meetings of department, internal and external meetings 10. Present abstract in an internal, meeting and if possible at an external meeting as a poster or oral presentation.
Portfolio entries required	Statistical worksheet, Abstract created
Log book entry required	Satisfactory completion of posting authenticated by preceptor
Assessment	<ol style="list-style-type: none"> 4. Attendance 5. successful verification of required portfolio entries 6. Successful completion of posting as certified in log book with a “meet expectation” M grade.
Other comments	

Elective 3: Pharmacovigilance (project) Identifying, Recording and reporting ADRs in a tertiary care setup and uploading the collected data to IPC database by Vigiflow software.

Name of Block	Block 1
Name of Elective	Pharmacovigilance (project) Identifying, Recording and reporting ADRs in a tertiary care setup and uploading the collected data to IPC database by Vigiflow software.
Location of hospital Lab or research facility	Medical College Hospital, JIMSH, Budge Budge
Name of internal preceptor(s)	Dr. Jaideep Bhaduri, Dr. Paramita Pal, Dr. Sughandha Garg, Dr. Pradipta Das
Name of external preceptor (if any)	N.A.
Learning objectives of elective	<ul style="list-style-type: none"> 11. To identify Adverse Drug reactions 12. To collect the data from patients and patient's clinical notes and laboratory reports. 13. To report the ADR to AMC by ADR reporting form. 14. Uploading the data in Vigiflow software.
Number of students that can be accommodated in this elective	4
Prerequisites for elective	Necessary immunisations.
Learning Resources for students	<ul style="list-style-type: none"> 8. Pharmacovigilance Guidance Document – CDSCO 9. ADR reporting form
List of activities in which the student will participate	<ul style="list-style-type: none"> 11. Work with superior to collect data form patients and patient clinical notes. 12. Filling up of ADR reporting Form. 13. Basic idea about how VIGIFLOW software. 14. Entering data in Vigiflow software under supervision.
Portfolio entries required	Documentation of worked up cases.
Log book entry required	Satisfactory completion of posting authenticated by preceptor
Assessment	<ul style="list-style-type: none"> 7. Attendance 8. successful verification of required portfolio entries 9. Successful completion of posting as certified in log book with a "meet expectation" M grade.
Other comments	

Elective 4: Research (preceptor initiated) Drug Utilization study in patients of DS and DR Tb attending NTEP clinic in a tertiary care setup.

Name of Block	Block 1
Name of Elective	Research (preceptor initiated) Drug Utilization study in patients of DS and DR Tb attending NTEP clinic in a tertiary care setup.
Location of hospital Lab or research facility	Department of Pharmacology, Department of Medicine - Medical College Hospital, JIMSH, Budge Budge
Name of internal preceptor(s)	Dr. Sughandha Garg, Dr. Pradipta Das, Dr. Joydeep Bhaduri, Dr. Paramita Pal
Name of external preceptor (if any)	N.A.
Learning objectives of elective	<ul style="list-style-type: none"> 15. To collect data as prescribed in study protocol 16. To document data in the electronic case record correctly 17. To demonstrate the use of statistical software to do basic research calculations 18. To write an abstract based on collected data 19. To present abstract to a group of peers and supervisors
Number of students that can be accommodated in this elective	6
Prerequisites for elective	Necessary immunisations.
Learning Resources for students	<ul style="list-style-type: none"> 10. Indian Journal of Pharmacology 11. Related articles provided by department
List of activities in which the student will participate	<ul style="list-style-type: none"> 15. Work with superior to in making observations, collect data and document as per protocol 16. Work with statistician to provide the statistical analysis of the data 17. Write abstract of work done 18. Participate in research meetings of department, internal and external meetings 19. Present abstract in an internal ,meeting and if possible at an external meeting as a poster or oral presentation.
Portfolio entries required	Statistical worksheet, Abstract created
Log book entry required	Satisfactory completion of posting authenticated by preceptor
Assessment	<ul style="list-style-type: none"> 10. Attendance 11. successful verification of required portfolio entries 12. Successful completion of posting as certified in log book with a “meet expectation” M grade.
Other comments	

DEPARTMENT OF PHYSIOLOGY**Elective 1: Effect of exercise and posture on heart rate, respiration & BP**

Name of block	Block 1
Name of Elective	Effect of exercise and posture on heart rate, respiration & BP
Location of hospital lab or research facility	Physiology department, JIMSH
Name of internal preceptor(s)	Prof. Dr. Debarati Chanda Dr. Aparajita Ray Dr. Tanusree Nath
Name of external preceptor (if any)	Nil
Learning objectives of the elective	<ol style="list-style-type: none">1. To comprehend the effect of exercise and change of posture on heart rate2. To comprehend the effect of exercise and change of posture on Blood pressure3. To comprehend the effect of exercise and change of posture on Respiration4. To be able to interpret the findings
Number of students that can be accommodated in this elective	6
Prerequisites for the elective	<ol style="list-style-type: none">1. Elementary knowledge about use of sphygmomanometer.2. Physiology of factors affecting heart rate , blood pressure and respiration
Learning resources for students	Practical and theory books on physiology
List of activities in which the student will participate	<ol style="list-style-type: none">1. Recruit subjects2. Perform the specified tests under supervisor & independently3. Data collection4. Tabulating data in worksheet.5. Interpret and assess the results6. Drawing summary of everyday work
Portfolio entries required	Yes , <ol style="list-style-type: none">1. Photographs2. Master charts
Log book entry required	Yes , <ol style="list-style-type: none">1. Record of daily activities2. Reflection
Assessment	OSPE , Demonstration , VIVA-VOCE

Elective 2: Study of Perimetry & visual field in health.

Name of block	Block 1
Name of Elective	Study of perimetry & visual field in health.
Location of hospital lab or research facility	Human & Experiment Lab, Physiology department, JIMSH
Name of internal preceptor(s)	Prof. Dr. Debarati Chanda Dr. Tanusree Nath Dr. Saswati Ray
Name of external preceptor (if any)	Nil
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To map the visual field 2. To corroborate the finding with confrontation perimetry
Number of students that can be accommodated in this elective	6
Prerequisites for the elective	Physiology of vision & ocular movements
Learning resources for students	Practical and theory books on physiology
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Recruit subjects 2. Perform the specified tests under supervisor & independently 3. Data collection 4. Tabulating data in worksheet. 5. Interpret and assess the results 6. Drawing summary of everyday work
Portfolio entries required	Yes , <ol style="list-style-type: none"> 1. Photographs 2. Master charts
Log book entry required	Yes , <ol style="list-style-type: none"> 1. Record of daily activities 2. Reflection
Assessment	OSPE , Demonstration , VIVA-VOCE
Other comments	Publication , Poster presentation

Elective 3: Study of Perimetry & visual field in health.

Name of block	Block 1
Name of Elective	ECG
Location of hospital lab or research facility	ECG Lab, Physiology department, JIMSH
Name of internal preceptor(s)	Dr. Saswati Ray Dr. Omkar Prasad Baidya Dr. Aparajita Ray
Name of external preceptor (if any)	Nil
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To demonstrate application of different instruments used for ECG recording. 2. To enumerate the indications for performing ECG by applying different leads. 3. To calculate details of each wave, HR & electrical axis determination from the graph.
Number of students that can be accommodated in this elective	4
Prerequisites for the elective	<ol style="list-style-type: none"> 1. Knowledge of ECG. 2. Basis knowledge of cardiac potentials
Learning resources for students	Practical and theory books on physiology
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Recruit subjects 2. Perform the specified tests under supervisor & independently 3. Data collection 4. Tabulating data in worksheet. 5. Interpret and assess the results 6. Drawing summary of everyday work
Portfolio entries required	Yes <ol style="list-style-type: none"> 1. Photographs 2. Master charts
Log book entry required	Yes, <ol style="list-style-type: none"> 1. Record of daily activities 2. Reflection
Assessment	OSPE , Demonstration , VIVA-VOCE
Other comments	Publication , Poster presentation

