



Jagannath Gupta Institute of Medical Sciences & Hospital

ELECTIVE PROGRAM BATCH 2023-24

ELECTIVE BLOCK 1			
Name of Elective	Department	Name of Preceptor	No. of students
Preparation Of Museum Specimen	Anatomy	Dr Rajarshi Datta / Dr.Sayandeep	6
Learning Radiological Anatomy	Anatomy	Dr Kaushik Ray	5
Anatomy Model Making	Anatomy	Dr Arindam Samaddar / Dr Ankita	5
Mirroring the Clinical Self- Metacognition & Reflective Writing in Clinical Practice	Anatomy	Prof (Dr) Sayantani Majumdar / Prof (Dr) Rajasri Chunder	15

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. Sayandeep
Name of external preceptor (if any)	N/A
Learning objectives of elective	1. To dissect viscera from cadaver 2. To mount and label the viscera for display 3. To make museum portfolio
Number of students that can be accommodated in this elective	6
Prerequisites for elective	Basic knowledge of Human Anatomy. Universal precautions and Good laboratory practice modules to be completed
Learning Resources for students	Departmental handbook provided
List of activities in which the student will participate	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	Formative: attendance; day-to-day participation in departmental activity; performance of assigned tasks
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	1. Recognize and identify structures on imaging studies 2. 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	5
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	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; Assessment by preceptor with plates
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 Arindam Samaddar/Dr Ankita
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	5
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; Presentation of the work done
Other comments	

Elective 4: Mirroring the Clinical Self- Metacognition & Reflective Writing in Clinical Practice

Name of Block	BLOCK 1
Name of Elective	Mirroring the Clinical Self (Metacognition & Reflective Writing in Clinical Practice: Harnessing Mature Psychological Defenses via Fiction)
Name of internal preceptor(s)	Prof (Dr.)Sayantani Majumdar Prof (Dr.)Rajasri Chunder
Name of external preceptor (if any)	
Learning objectives of the elective	1. Utilize reflective writing as a career-long clinical tool to prevent professional burnout, navigate high-stress clinical errors, enhance patient-centered communication, and meet post-graduate workplace-based assessment (WPBA) and licensing requirements. 2. Analyze personal emotional and psychological responses to clinical stressors using Vaillant's hierarchy of Mature Defense Mechanisms during ward postings and simulations. 3. Synthesize and execute high-fidelity clinical reflections that achieve "Reflective" or "Critically Reflective" tiers on the validated WALD REFLECT rubric by the end of the 2-week posting.
Number of students that can be accommodated in this elective	15
Prerequisites for the elective	None
Learning resources for students	1. Frameworks: Experiential Learning (Kolb's), Gibbs' Reflective Cycle, and Vaillant's Hierarchy of Adaptive Ego Mechanisms provided by the preceptors
List of activities in which the student will participate	1. Interactive Workshops & Conceptual Framing: Participate in icebreakers, guided metacognitive discussions, self-baselining (DMRS-SR-30), and media-based exercises mapping the 6 stages of Gibbs' cycle and Mature Defense Mechanisms using fictional character metaphors. 2. Immersive Practical Sessions: Engage in fishbowl focus group discussions (FGDs) with qualitative word-cloud mapping, and write real-time reflections observing a live simulated standardized patient encounter. 3. Peer Review & Feedback Seminars: Act as an "Editorial Review Board" in trios to perform anonymized peer evaluation, constructive redlining, and feedback-driven revisions using the WALD REFLECT rubric, alongside examining elite physician reflection cases. 4. Portfolio Synthesis & Evaluation: Finalize reflective narrative artifacts, complete a station-based Reflective Viva Voce, and submit module evaluation feedback.

Portfolio entries required	Students are required to maintain an E-PORTFOLIO. This must include: • DMRS-SR-30 self-baseline results and reflection notes. • Visual word cloud artifacts and qualitative notes from Fishbowl FGDs. • Finalized 2-Portfolio Set: 1 personal clinical case reflection + 1 live SP simulation reflection, integrating Gibbs' cycle and Mature Defense Mechanisms. • Anonymized peer-critiqued scripts with direct redlining and documented feedback revisions.
Log book entry required	Daily record of activities and attendance across all 10 days (30 total hours); formal logbook sign-off certifying successful completion with a "meets expectation" ('M') grade based on performance in the Reflective Viva Voce and portfolio verification.
Assessment	• Formative: Daily attendance, active participation in focus group discussions, and peer evaluation of anonymized drafts using the WALD REFLECT rubric. • Summative: Station-based Reflective Viva Voce (where students verbally justify how their action plan utilizes Anticipation for final-year postings) and rubric-based grading of the finalized E-PORTFOLIO 2-portfolio set using the WALD REFLECT Rubric.
Other comments	

ELECTIVE BLOCK 1			
Name of Elective	Department	Name of Preceptor	No. of students
Evaluation of The RFT parameters and early detection of AKI in a Tertiary care hospital	Biochemistry	Dr. Unmesana Kakati	8
Interpretation of HbA_{1c} to detect the prediabetic and its importance over FBS.	Biochemistry	Dr. Abhira Deb	8
Case based interpretation of LFT in common clinical condition.	Biochemistry	Dr. Maitrayee Basu Dr. Munmun Saha	8
Hormone assay through Modern Chemiluminescence Immuno Assay and report analysis.	Biochemistry	Dr. Abhishek Kundu	8

**Elective 1: Evaluation of The RFT parameters
and early detection of AKI in a Tertiary care
hospital**

Name of Block	Block 1
Name of Elective	Evaluation of the RFT parameters and early detection of AKI in a Tertiary care hospital
Location of hospital Lab or research facility	JIMSH central laboratory (Biochemistry)
Name of internal preceptor(s)	Dr. Unmesana Kakati
Name of external preceptor (if any)	
Learning objectives of elective	1. Interpret serial creatinine and urea values to identify a trend suggestive of AKI. 2. Apply the KDIGO criteria for staging AKI using laboratory data. 3. Correlate laboratory findings with clinical decision making-when to alert the treating team.
Number of students that can be accommodated in this elective	8
Prerequisites for elective	
Learning Resources for students	Biochemistry and medicine textbooks, Biochemical reports in the lab.
List of activities in which the student will participate	1. Collection and preparation of blood samples. 2. Functioning of Auto-analyzer. 3. Data analysis and evaluation of reports 4. Laboratory information system.
Portfolio entries required	Data collected daily to be noted. Analysis of the data at the end of posting.
Log book entry required	Findings of the study to be entered daily.
Assessment	At the end of the posting by the preceptor, whether meets the expectations along with the presentations
Other comments	

Elective 2: Interpretation of HbA₁C to detect the prediabetic and its importance over FBS.

Name of Block	Block 1
Name of Elective	Interpretation of HbA₁C to detect the prediabetic and its importance over FBS.
Location of hospital Lab or research facility	JIMSH central laboratory (Biochemistry)
Name of internal preceptor(s)	Dr. Abhira Deb
Name of external preceptor (if any)	
Learning objectives of elective	4. Interpret HbA₁C values to identify normal, pre-diabetic and diabetic status using diagnostic criteria. 5. Advantages and limitations of correlating HbA₁C with FBS for screening, diagnosis and long term assessment of glycemic status.
Number of students that can be accommodated in this elective	8
Prerequisites for elective	
Learning Resources for students	Biochemistry and medicine textbooks, Biochemical reports in the lab.
List of activities in which the student will participate	5. Collection and preparation of blood samples. 6. Functioning of Auto-analyzer. 7. Data analysis and evaluation of reports 8. Laboratory information system.
Portfolio entries required	Data collected daily to be noted. Analysis of the data at the end of posting.
Log book entry required	Findings of the study to be entered daily.
Assessment	At the end of the posting by the preceptor, whether meets the expectations along with the presentations.
Other comments	

Elective 3: Case based interpretation of LFT in common clinical condition.

Name of Block	Block 1
Name of Elective	Case based interpretation of LFT in common clinical condition.
Location of hospital Lab or research facility	JIMSH central laboratory (Biochemistry)
Name of internal preceptor(s)	1. Dr. Maitrayee Basu 2. Dr. Munmun Saha
Name of external preceptor (if any)	
Learning objectives of elective	6. Describe the components of LFT panel. 7. Differentiate hepatocellular, cholestatic and mixed liver injury. 8. Correlate the LFT with common clinical conditions.
Number of students that can be accommodated in this elective	8
Prerequisites for elective	
Learning Resources for students	Biochemistry and medicine textbooks, Biochemical reports in the lab.
List of activities in which the student will participate	9. Collection and preparation of blood samples. 10. Functioning of Auto-analyzer. 11. Data analysis and evaluation of reports 12. Laboratory information system.
Portfolio entries required	Data collected daily to be noted. Analysis of the data at the end of posting.
Log book entry required	Findings of the study to be entered daily.
Assessment	At the end of the posting by the preceptor, whether meets the expectations along with the presentations.
Other comments	

Elective 4: Hormone assay through Modern Chemiluminescence Immuno Assay and report analysis.

Name of Block	Block 1
Name of Elective	Hormone assay through Modern Chemiluminescence Immuno Assay and report analysis.
Location of hospital Labor research facility	JIMSH central laboratory (Biochemistry)
Name of internal preceptor(s)	Dr. Abhishek Kundu
Name of external preceptor (if any)	
Learning objectives of elective	1) To differentiate different types of thyroid abnormalities. 2) To find out the commonest type of thyroid dysfunction in our hospital in a given period of time
Number of students that can be Accommodated in this elective	8
Prerequisites for elective	
Learning Resources for students	Biochemistry and medicine textbooks, Biochemical reports in the lab.
List of activities in which the student will participate	13. Collection and preparation of blood samples. 14. Functioning of Auto-analyzer. 15. Data analysis and evaluation of reports 16. Laboratory information system.
Portfolio entries required	Data collected daily to be noted. Analysis of the data at the end of posting.
Log book entry required	Findings of the study to be entered daily.
Assessment	At the end of the posting by the preceptor, whether meets the expectations along with the presentations.
Other comments	

ELECTIVE BLOCK 1

Estimation of osmotic fragility	Physiology	Prof. (Dr) Debarati Chanda, prof. (Dr.) Saswati Ray, Dr Aparajita Ray	5
Study of normal and abnormal patterns in ECG.	Physiology	Prof. Dr. Arnab sengupta , Dr Tanusree Nath	14
Determination of Arneeth Count, Measurement of RDW and their application in diagnosis of common haematological disorder	Physiology	Dr. Julfa khatun, Dr. Anisha Dutta	5

Elective 1: Estimation of osmotic fragility

Name of Block	BLOCK 1
Name of Elective	Estimation of osmotic fragility
Location of hospital lab or research facility	Department of physiology, research lab, JIMSH budge budge
Name of internal preceptor(s)	Prof. (Dr) Debarati Chanda, Prof. (Dr.) Saswati Ray, Dr Aparajita Ray
Name of external preceptor (if any)	
Learning objectives of the elective	1. To learn about osmotic fragility 2. To learn the method of determining osmotic fragility. 3. To learn about the importance of osmotic fragility.
Number of students that can be accommodated in this elective	5
Prerequisites for the elective	Basic knowledge about hematology
Learning resources for students	Guidelines and departmental handbook provided
List of activities in which the student will participate	1. Recruit subjects 2. Perform the specified test 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 , 1. Photographs 2. Master charts
Log book entry required	Completion of posting signed by preceptor with a “meets expectation ‘(m)’ grade”
Assessment	Daily attendance Doap, viva – voce, ospe
Other comments	

Elective 2: Study of normal and abnormal patterns in ECG.

Name of Block	BLOCK 1
Name of Elective	Study of normal and abnormal patterns in ECG.
Location of hospital lab or research facility	Department of physiology, research lab, JIMSH budge budge
Name of internal preceptor(s)	Prof. Dr. Arnab sengupta , Dr tanusree nath
Name of external preceptor (if any)	
Learning objectives of the elective	1.to learn the method of recording ECG. 2.to learn about the complications of diabetes mellitus. 3.to learn the effect of respiration on heart rate and on ECG. 4.to present the relation between r-r interval and diabetic neuropathy
Number of students that can be accommodated in this elective	14
Prerequisites for the elective	Basic knowledge about clinical physiology
Learning resources for students	Guidelines and departmental handbook provided
List of activities in which the student will participate	7. Recruit subjects 8. Perform the specified test under supervisor & independently 9. Data collection 10. Tabulating data in worksheet. 11. Interpret and assess the results 12. Drawing summary of everyday work
Portfolio entries required	Yes , 3. Photographs 4. Master charts
Log book entry required	Completion of posting signed by preceptor with a “meets expectation ‘(m)’ grade”
Assessment	Daily attendance Doap, viva – voce, ospe
Other comments	

**Elective 3: Determination of Arneth Count,
Measurement of RDW and their application in diagnosis of common haematological disorder**

Name of Block	BLOCK 1
Name of Elective	Determination of Arneth Count, Measurement of RDW and their application in diagnosis of common haematological disorder
Location of hospital lab or research facility	Department of physiology, research lab, jimsh budge budge
Name of internal preceptor(s)	Dr. Julfa khatun , dr. Anisha dutta
Name of external preceptor (if any)	No
Learning objectives of the elective	4. To learn about mature and immature neutrophils 5. To learn the method of estimating Arneth count 6. To learn about the importance of Arneth count 7. To learn the method of estimating RDW 8. To learn about the importance of RDW
Number of students that can be accommodated in this elective	5
Prerequisites for the elective	Basic knowledge about hematology
Learning resources for students	Guidelines and departmental handbook provided
List of activities in which the student will participate	13. Recruit subjects 14. Perform the specified test under supervisor & independently 15. Data collection 16. Tabulating data in worksheet. 17. Interpret and assess the results 18. Drawing summary of everyday work
Portfolio entries required	Yes , 5. Photographs 6. Master charts
Log book entry required	Yes, 1. Record of daily activities 2. Reflection
Assessment	Daily attendance DOAP, viva – voce, OSPE
Other Comments	Publications and poster presentation

ELECTIVE BLOCK 1			
Name of Elective	Department	Name of Preceptor	No. of students
Bacteriological profile and AST patterns of Lower respiratory tract infections in patients at JIMSH	Microbiology	Dr. Nibedita Debnath and Mr. Aditya Tiwari	5
Study of ESBL production among the UTI isolates at JIMSH	Microbiology	Dr. Pritha Pramanick and Ms. Moutusi Dey	5
Surgical site infections at a tertiary care hospital- a retrospective study	Microbiology	Dr. Syamal Modi and Dr. Avranil Goswami	5
Surveillance of blood stream infections (BSIs) at JIMSH	Microbiology	Dr. Avranil Goswami and Dr. SK Erfanul Haque	5

Elective 1: Bacteriological profile and AST patterns of Lower respiratory tract infections in patients at JIMSH

Name of Block	Block 1
Name of Elective	Bacteriological profile and AST patterns of Lower respiratory tract infections in patients at JIMSH
Location of hospital lab or research facility	Central Laboratory, 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	1. Identify the patients of suspected LRTI 2. Understand the methods used in the diagnosis of LRTI 3. Know about the prevalent bacterial causes of LRTI & their sensitivity patterns
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Access to patient wards Access to laboratory resources Access to departmental library
Learning Resources for students	1. Panicker's Textbook of Microbiology 2. Topley And Wilson's Microbiology 3. Mackie & McCartney Practical Medical Microbiology 4. Departmental records/MRD data
List of activities in which the student will participate	1. Take patient history & collect and document examination findings 2. Participate in sample handling as well as testing methods 3. Compilation & Analysis of data 4. 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: Study of ESBL production among the UTI isolates at JIMSH

Name of Block	Block 1
Name of Elective	Study of ESBL production among the UTI isolates at JIMSH
Location of hospital lab or research facility	Central Laboratory, Department of Microbiology, JIMSH
Name of internal preceptor(s)	Dr. Pritha Pramanick and Ms. Moutusi Dey
Name of external preceptor (if any)	N/A
Learning objectives of elective	1. To observe and perform bacterial culture of urine 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 patient wards Access to laboratory resources Access to departmental library
Learning Resources for students	1. Panicker's Textbook of Microbiology 2. Topley And Wilson's Microbiology 3. Mackie & McCartney Practical Medical Microbiology 4. Departmental records/MRD data
List of activities in which the student will participate	1. Take patient history & collect and document examination findings 2. Participate in sample handling as well as testing methods 3. Compilation & Analysis of data 4. 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: Surgical site infections at a tertiary care hospital- A retrospective study

Name of Block	Block 1
Name of Elective	Surgical site infections at a tertiary care hospital- a retrospective study
Location of hospital lab or research facility	Central Laboratory, 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. Understand SSIs and the methods of their detection/diagnosis 2. Learn to identify and document SSIs 3. Report and document SSIs at JIMSH over a defined period 4. Learn the methods of prevention of SSIs
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Access to patient wards/ICUs etc. Access to Laboratory Resources Access to HICC/MRD data, if required
Learning Resources for students	1. Essentials of Hospital Infection Control by Sastry 2. Infection prevention & control by Elliott 3. National Guidelines for Infection Prevention and Control in Healthcare Facilities, NCDC
List of activities in which the student will participate	1. Prepare a checklist for diagnosing SSIs 2. Take patient history & collect and document examination findings 3. Participate in sample handling & testing methods 4. Suggest CAPA, if any. 5. Compilation & Analysis of data 6. 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: Surveillance of blood stream infections (BSIs) at JIMSH

Name of Block	Block 1
Name of Elective	Surveillance of blood stream infections (BSIs) at JIMSH
Location of hospital lab or research facility	Central Laboratory, Department of Microbiology, JIMSH
Name of internal preceptor(s)	Dr. Avranil Goswami and Dr. SK Erfanul Haque
Name of external preceptor (if any)	N/A
Learning objectives of elective	1. Understand BSIs and the methods of their identification/diagnosis 2. Learn to identify and document BSIs 3. Report and document BSIs at JIMSH over a defined period 4. Learn the methods of prevention of BSIs
Number of students that can be accommodated in this elective	5
Prerequisites for elective	Access to patient wards/ICUs etc. Access to Laboratory Resources Access to HICC/MRD data, if required
Learning Resources for students	1. Essentials of Hospital Infection Control by Sastry 2. Infection prevention & control by Elliott 3. National Guidelines for Infection Prevention and Control in Healthcare Facilities, NCDC
List of activities in which the student will participate	1. Prepare a checklist for diagnosing BSIs 2. Take patient history & collect and document examination findings 3. Participate in sample handling & testing methods 4. Suggest CAPA, if any. 5. Compilation & Analysis of data 6. 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 BLOCK 1			
Name of Elective	Department	Name of Preceptor	No. of students
Different types of histopathology and cytopathology staining- H/E stain, PAS, PAP, Leishman, Giemsa their importance and interpretation.	Pathology	Dr.Prof.Dipanwita Nag Dr.Shreya Kar	6
Interpretation of CBC report to determine different types of anemia	Pathology	Dr Prof Col Prasanta SenGupta Dr.Ayesha Abid	6
Histopathological technique & importance of different steps.	Pathology	Dr Prof Mahasweta Mallik Dr.SanchitaBiswas	6
Exposure to cytologicalLab– FNAC & Exfoliative cytology	Pathology	Dr Prof Col Prasanta Sengupta Dr.Soumick Sarkar,Pathology.	6
CPC (Clinico-pathological correlation) – its importance for better approach to patients	Pathology	Dr Prof Dipanwita Nag Dr.SmitaPriyam & Dr Sneha Roy	6

Elective 1: Different types of histopathology and cytopathology staining- H/E stain, PAS, PAP, Leishman, Giemsa their importance and interpretation.

Name of Block	Block 1
Name of Elective	Different types of histopathology and cytopathology staining- H/E stain, PAS, PAP, Leishman, Giemsa their importance and interpretation.
Location of hospital Lab or research facility	CentralLab,JIMSH
Name of internal preceptor(s)	Dr.Prof.Dipanwita Nag, HOD Pathology Dr.ShreyaKar,PathologyDept.
Name of external preceptor (if any)	Nil
Learning objectives of elective	1. Participate in teaching session to get the basic understanding of use of different types of histopathology & cytopathology staining and their techniques. 2. Present and perform all the above mentioned stains in given cases individually.
Number of students that can be accommodated in this elective	6
Prerequisites for elective	Immunizationa gainst Hepatitis-B virus.
Learning Resources for students	Bancroft's theory and practice of histological techniques (8th Edition)
List of activities in which the student will participate	1. To describe the importance of histopathology and cytopathology stains for proper diagnosis of cases. 2. To judge the requirement for special stains for particular cases as they apply to definitive diagnosis. 3. To learn the staining procedure.
Portfolio entries required	Assignment provided. Documentation of self-directed learning as summary and reflection
Log book entry required	Completion of posting to be signed by Preceptor with a“meetexpectation”(M) grade.
Assessment	Formative–daily attendance. Day-to-day participation in departmental activities. Performance of assigned tasks and presentation of worked up case in the department.
Other comments	

Elective 2: Interpretation of CBC report to determine different types of anemia

Name of Block	Block 1
Name of Elective	Interpretation of CBC report to determine different types of anemia
Location of hospital Lab or research facility	CentralLab,JIMSH
Name of internal preceptor(s)	Dr Prof Col Prasanta SenGupta, Pathology Dr.AyeshaAbid,PathologyDept
Name of external preceptor (if any)	Nil
Learning objectives of elective	1. Know the sample required for the testing of anemia 2. Know the procedure of blood smear preparation and staining - Know the normal values of hemoglobin and red cell indices to help in assessment of patient samples.
Number of students that can be accommodated in this elective	6
Prerequisites for elective	Apron, gloves, immunisation against Hep B.
Learning Resources for students	Guidance from trained technicians/seniors/ Preceptor. Practical textbook.
List of activities in which the student will participate	- Work daily in the Hematology lab - Observe the requisition forms coming from ward/ OPD - Observe the processing of blood samples in Hematology analyzer - Prepare the blood smears of patient sample and stain - Read the values of patient's hemoglobin and red cell indices (as given by analyzer machine) to classify anemia morphologically See the stained blood smears to determine morphology of RBC
Portfolio entries required	Documentation of cases analysed by the student. Documentation of self-directed learning as summary and reflection.
Log book entry required	Completion of posting to be signed by Preceptor with a "meetexpectation" (M)grade.
Assessment	Completion of posting to be signed by Preceptor with a "meet expectation" (M)grade.
Other comments	

Elective 3: Histopathological technique & importance of different steps.

Name of Block	Block 1
Name of Elective	Histopathological technique & importance of different steps.
Location of hospital Lab or research facility	CentralLab,JIMSH
Name of internal preceptor(s)	Dr Prof Mahasweta Mallik, Pathology Dr.SanchitaBiswas,PathologyDept
Name of external preceptor (if any)	Nil
Learning objectives of elective	Students should of know followings after completion of the session: Should know the importance of maintaining correct documents of the sample received and how to efficiently work as a part of a team. Should acquire obvious comprehensive knowledge regarding different steps in tissue processing and significance of various steps.
Number of students that can be accommodated in this elective	6
Prerequisites for elective	Vaccination against Hepatitis-B virus.
Learning Resources for students	Guidance from seniors/Preceptor. Practical textbook.
List of activities in which the student will participate	1. Work daily in the tissue reception area. 2. To observe, assist & perform the tissue processing done in lab. 3. To observe & perform block preparation, section cutting. 4. To ask seniors/ preceptor about further correction.
Portfolio entries required	Documentation of cases which were handled by the student. Documentation of presentation done.
Log book entry required	Completion of posting to be signed by Preceptor with a “meet expectation” (M) grade.
Assessment	Formative–daily attendance. Day-to-day participation in departmental activities. Performance of assigned tasks and presentation of worked up case in the department
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 Prof Col Prasanta Sengupta Dr. Soumick Sarkar, Pathology Dept.
Name of external preceptor (if any)	Nil
Learning objectives of elective	• To know the different types of sample required for cytological study. • To know different tests that are performed in cytology sample. • To know the significance of various tests that are done in cytology sample.. Participate in tests performed in the lab.
Number of students that can be accommodated in this elective	6
Prerequisites for elective	Vaccination against Hepatitis-B virus.
Learning Resources for students	Guidance from seniors/Preceptor. Practical text book.
List of activities in which the student will participate	• Work daily in the sample reception area. • To observe, assist & perform the tests in the supplied sample. To ask Seniors/ Preceptor about further information where required.
Portfolio entries required	Documentation of cases which were handled by him/ her. Documentation of presentation done.
Log book entry required	Completion of posting to be signed by Preceptor with a “meet expectation” (M) grade.
Assessment	Formative–daily attendance. Day-to-day participation in departmental activities. Performance of assigned tasks and presentation of worked up case in the department.
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	CentralLab,JIMSH
Name of internal preceptor(s)	Dr Prof Dipanwita Nag, HOD Pathology Dr.SmitaPriyam,PathologyDept. & Dr Sneha Roy
Name of external preceptor (if any)	Nil
Learning objectives of elective	- To know basis/ significance of CPC - To know details of tests and patients' Clinical findings Participate in CPC in the lab along with patient's history
Number of students that can be accommodated in this elective	6
Prerequisites for elective	Must have received necessary immunisations.
Learning Resources for students	Essentials of Clinical Pathology- Kawthalkar Henry's Clinical Diagnosis and Management by Laboratory Methods.
List of activities in which the student will participate	1.Work daily in the lab & note different tests 2. To observe & participate in CPC held during his/her tenure.
Portfolio entries required	Documentation of cases where participated in CPC. Documentation of presentation done
Log book entry required	Completion of posting to be signed by Preceptor with a "meet expectation" (M) grade
Assessment	Formative–daily attendance. Day-to-day participation in departmental activities. Performance of assigned tasks and presentation of worked up case in the department.
Other comments	

ELECTIVE BLOCK 1			
Name of Elective	Department	Name of Preceptor	No. of students
Pharmacovigilance Identifying, Recording And Reporting ADRs In A Tertiary Care Setup And Uploading The Collected Data To IPC Database By Vigiflow Software.	Pharmacology	Dr. Paramita Pal, Dr. Sugandha Garg, Dr. Pradipta Das, Dr. Jaideep Bhaduri	7
Materiovigilance Assessment of Medical Device Safety and Materiovigilance Practices in a Tertiary Care Hospital	Pharmacology	Dr. Pradipta Das, Dr. Jaideep Bhaduri, Dr. Paramita Pal, Dr. Sugandha Garg	7
Project (Antibiotic Stewardship) Audit of Compliance with Hospital Antibiotic Policy in a Tertiary Care Teaching Hospital	Pharmacology	Dr. Sugandha Garg, Dr. Paramita Pal, Dr. Pradipta Das, Dr. Payodhi Dhar, Dr. Jaideep Bhaduri	7
Project Medication Safety Audit of Look-Alike Sound-Alike (LASA) Medications and Safe Storage Practices in a Tertiary Care Teaching Hospital	Pharmacology	Dr. Jaideep Bhaduri, Dr. Sugandha Garg, Dr. Pradipta Das, Dr. Payodhi Dhar, Dr. Paramita Pal	7
Project Clinical Pharmacology Evaluation of Pain Management Practices in a Tertiary Care Teaching Hospital	Pharmacology	Dr. Paramita Pal, Dr. Pradipta Das, Dr. Jaideep Bhaduri, Dr. Sugandha Garg	7

Elective 1: 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 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	• Department of Pharmacology (AMC), JIMSH • Medical College Hospital, JIMSH, Budge Budge
Name of internal preceptor(s)	Dr. Paramita Pal, Dr. Sugandha Garg, Dr. Pradipta Das, Dr. Jaideep Bhaduri.
Name of external preceptor (if any)	N.A
Learning objectives of elective	1. To identify Adverse Drug reactions 2. To collect the data from patients and patient's clinical notes and laboratory reports. 3. To report the ADRs to AMC by ADR reporting form provided by IPC. 4. Uploading the data in Vigiflow software.
Number of students that can be accommodated in this elective	7
Prerequisites for elective	Reading about ADR materials and management from provided material
Learning Resources for students	CDSCO website Pharmacovigilance programme of India (PvPI)
List of activities in which the student will participate	• Identify ADRs with AMC team in hospital • Fill ADR forms • Enter data into vigiflow software • Apply causality scales • Write case report on ADR
Portfolio entries required	At the end of the module description of ADR reports added, the process to identify and report ADRs, reflections on the learning
Log book entry required	• Number of ADR reported • Number of ADR entered into vigiflow independently • Documentation of case report generated
Assessment	1. Attendance 2. Successful verification of required portfolio entries 3. Successful completion of posting ascertified in log book with a "meet expectation" M grade. 4. Power point presentation of the entire project.
Other comments	

Elective 2: Materiovigilance (project)

Assessment of Medical Device Safety and Materiovigilance Practices in a Tertiary Care Hospital

Name of Block	Block 1
Name of Elective	Materiovigilance Assessment of Medical Device Safety and Materiovigilance Practices in a Tertiary Care Hospital
Location of hospital Lab or research facility	• Department of Pharmacology (Medical Device Monitoring Centre-MDMC JIMSH) • Medical College Hospital, JIMSH, Budge Budge
Name of internal preceptor(s)	Dr. Pradipta Das, Dr. Jaideep Bhaduri, Dr. Paramita Pal. Dr.Sugandha Garg.
Name of external preceptor (if any)	N.A
Learning objectives of elective	1. To identify commonly used medical devices in different hospital departments. 2. To understand the principles of Materiovigilance Programme of India (MvPI). 3. To assess safe use, maintenance, calibration and documentation of medical devices. 4. To identify medical device adverse events (MDAEs) and near-miss incidents. 5. To report MDAEs using the IPC Medical Device Adverse Event Reporting Form. 6. To recommend corrective and preventive actions (CAPA) for improving patient safety.
Number of students that can be accommodated in this elective	7
Prerequisites for elective	Basic knowledge of: • Medical devices used in hospitals • Patient safety • Medical Device Rules, 2017 • Materiovigilance Programme of India (MvPI)
Learning Resources for students	• IPC (Indian Pharmacopoeia Commission) • Materiovigilance Programme of India (MvPI) • CDSCO Website • Medical Device Rules, 2017 • Hospital SOPs • NABH Standards
List of activities in which the student will participate	1. Orientation to MDMC and Materiovigilance Programme 2. Visit to ICU, OT, Emergency and Wards 3. Identification of commonly used medical devices 4. Assessment of safe use of medical devices using a structured checklist 5. Review calibration and preventive maintenance records 6. Identify medical device adverse events and near-miss

	events 7. Fill Medical Device Adverse Event Reporting Forms 8. Participate in Root Cause Analysis (RCA) 9. Recommend Corrective and Preventive Actions (CAPA) 10. Prepare audit report and presentation
Portfolio entries required	At the end of the elective, students shall submit: • Checklist of medical devices assessed • Summary of device safety audit • At least one MDAE case report (real or simulated) • Reflection on learning • Recommendations for improving device safety
Log book entry required	• Number of departments visited • Number of devices assessed • Number of maintenance records reviewed • Number of MDAEs/near misses identified • Number of reporting forms completed • Audit checklist completed
Assessment	• Attendance • Completion of logbook • Verification of portfolio • Viva voce • PowerPoint presentation of the project • Submission of audit report
Other comments	N.A

Elective 3: Project (preceptor initiated)
Antibiotic Stewardship
Audit of Compliance with Hospital Antibiotic Policy in a Tertiary Care Teaching Hospital

Name of Block	Block 1
Name of Elective	Research (Medication Safety/ Clinical Pharmacology) Audit of Compliance with Hospital Antibiotic Policy in a Tertiary Care Teaching Hospital
Location of hospital Lab or research facility	• Department of Pharmacology • Department of Microbiology • Infection Control Committee • Medicine, Surgery, ICU and Emergency Departments Jagannath Gupta Institute of Medical Sciences & Hospital (JIMSH), Budge Budge
Name of internal preceptor(s)	Dr. Sughandha Garg, Dr. Paramita Pal, Dr. Pradipta Das, Dr. Payodhi Dhar, Dr. Jaideep Bhaduri
Name of external preceptor (if any)	N.A

Learning objectives of elective	1. To understand the principles of Antimicrobial Stewardship (AMS). 2. To become familiar with the hospital antibiotic policy. 3. To assess compliance of antibiotic prescriptions with the hospital antibiotic policy. 4. To identify inappropriate antibiotic prescribing practices. 5. To recommend strategies for improving rational antibiotic use and combating antimicrobial resistance
Number of students that can be accommodated in this elective	7
Prerequisites for elective	Basic knowledge of: • Antimicrobial agents • Principles of rational prescribing • Antimicrobial resistance (AMR) • Hospital Antibiotic Policy • Interpretation of culture and sensitivity report
Learning Resources for students	• Hospital Antibiotic Policy • National Centre for Disease Control (NCDC) Antimicrobial Stewardship Guidelines • Indian Council of Medical Research (ICMR) Antimicrobial Treatment Guidelines • WHO AWaRe Classification • NABH Standards
List of activities in which the student will participate	• Orientation to Antimicrobial Stewardship (AMS). • Review the hospital antibiotic policy. • Audit antibiotic prescriptions in selected departments. • Compare prescribed antibiotics with hospital policy recommendations. • Assess indication, antibiotic selection, dose, route, frequency, and duration. • Review availability of culture reports where applicable. • Identify deviations from the antibiotic policy. • Discuss findings with faculty. • Prepare recommendations for improving compliance. • Present audit findings.
Portfolio entries required	• Summary of antibiotic prescriptions audited. • Compliance assessment forms. • Reflection on rational antibiotic use. • Recommendations for improving compliance. • Audit report.
Log book entry required	• Number of departments visited. • Number of prescriptions reviewed. • Number of antibiotics assessed. • Percentage compliance with hospital policy. • Common deviations identified. • Recommendations submitted.

Assessment	• Attendance. • Portfolio completion. • Certified logbook. • Viva voce. • PowerPoint presentation. • Submission of audit report.
Other comments	N.A

Elective 4: Medication Safety (preceptor initiated)

Audit of Look-Alike Sound-Alike (LASA) Medications and Safe Storage Practices in a Tertiary Care Teaching Hospital

Name of Block	Block 1
Name of Elective	Project (Medication Safety) Audit of Look-Alike Sound-Alike (LASA) Medications and Safe Storage Practices in a Tertiary Care Teaching Hospital
Location of hospital Lab or research facility	• Department of Pharmacology • Central Pharmacy • Inpatient Pharmacy • Intensive Care Unit (ICU) • Emergency Department • Jagannath Gupta Institute of Medical Sciences & Hospital (JIMSH), Budge Budge
Name of internal preceptor(s)	Dr. Jaideep Bhaduri, Dr. Sugandha Garg, Dr. Pradipta Das, Dr. Payodhi Dhar, Dr. Paramita Pal
Name of external preceptor (if any)	N.A
Learning objectives of elective	1. To understand the concept and importance of Look-Alike Sound-Alike (LASA) medications. 2. To identify commonly used LASA medications in the hospital. 3. To assess storage, labeling, and segregation practices of LASA drugs. 4. To identify medication safety risks associated with LASA medications. 5. To recommend strategies for preventing LASA-related medication errors. 6. To appreciate the role of medication safety in improving patient outcomes
Number of students that can be accommodated in this elective	7

Prerequisites for elective	Basic knowledge of: • Medication safety • Medication errors • High-alert medications • Rational use of medicines • Hospital pharmacy practice
Learning Resources for students	• Indian Pharmacopoeia Commission (IPC) • National Patient Safety Goals • NABH Standards • ISMP (Institute for Safe Medication Practices) Guidelines • WHO Patient Safety Resources • Hospital Medication Safety Policy
List of activities in which the student will participate	• Orientation on medication safety and LASA medications. • Visit to central pharmacy, ICU, wards, and emergency drug stores. • Prepare an inventory of LASA medications used in the hospital. • Assess labeling, storage, segregation, and warning labels using a standardized audit checklist. • Identify potential medication safety hazards related to LASA drugs. • Discuss findings with pharmacy and nursing staff. • Recommend preventive measures (e.g., Tall Man lettering, color coding, separate storage, warning stickers). • Prepare a medication safety audit report. • Present findings and recommendations.
Portfolio entries required	At the end of the elective, students shall submit: • List of LASA medications identified. • Completed LASA audit checklist. • Documentation of medication safety observations. • Reflection on learning. • Recommendations for improving LASA medication safety.
Log book entry required	• Number of departments audited. • Number of LASA medications identified. • Number of storage areas inspected. • Number of medication safety deficiencies identified. • Corrective recommendations suggested.
Assessment	• Attendance. • Verification of completed portfolio. • Completion of certified logbook. • Viva voce. • Submission of medication safety audit report. • PowerPoint presentation of audit findings.
Other comments	N.A

Elective 5: Clinical Pharmacology (preceptor initiated)

Evaluation of Pain Management Practices in a Tertiary Care Teaching Hospital

Name of Block	Block 1
Name of Elective	Project (Clinical Pharmacology) Evaluation of Pain Management Practices in a Tertiary Care Teaching Hospital
Location of hospital Lab or research facility	• Department of Pharmacology • Department of Anesthesiology • Department of Orthopedics • Department of General Surgery • Department of Medicine • Jagannath Gupta Institute of Medical Sciences & Hospital (JIMSH), Budge Budge
Name of internal preceptor(s)	Dr.Paramita Pal , Dr. Pradipta Das, Dr. Jaideep Bhaduri, Dr. Sugandha Garg
Name of external preceptor (if any)	N.A
Learning objectives of elective	• To understand the principles of pain assessment and pain management. • To assess pain management practices in hospitalized patients. • To evaluate the appropriateness of analgesic prescribing based on pain severity. • To assess documentation of pain assessment and reassessment. • To identify gaps in pain management and recommend strategies for improvement.
Number of students that can be accommodated in this elective	7
Prerequisites for elective	Basic knowledge of: • Pain physiology • NSAIDs • Opioid analgesics • WHO Analgesic Ladder • Pain assessment scales (VAS, Numeric Rating Scale)
Learning Resources for students	• WHO Analgesic Ladder • National Guidelines on Pain Management • Hospital Pain Management Policy • NABH Standards • Standard Treatment Guidelines

List of activities in which the student will participate	• Orientation on pain assessment and pain management. • Learn the use of pain assessment scales (VAS/NRS). • Review patient records for pain assessment and analgesic prescriptions. • Observe pain assessment practices in wards. • Audit appropriateness of analgesic selection, dose, route, and frequency. • Assess documentation of pain reassessment after treatment. • Identify barriers to effective pain management. • Prepare recommendations to improve pain management practices. • Present audit findings.
Portfolio entries required	• Pain assessment audit forms. • Summary of analgesic prescriptions. • Reflection on pain management practices. • Recommendations for improvement. • Final audit report.
Log book entry required	• Number of patients assessed. • Number of prescriptions reviewed. • Types of analgesics prescribed. • Documentation of pain assessment. • Documentation of pain reassessment. • Recommendations submitted.
Assessment	• Attendance. • Portfolio completion. • Certified logbook. • Viva voce. • PowerPoint presentation. • Submission of audit report.
Other comments	N.A