

BLOCK 1

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NAME OF THE BLOCK	BLOCK 1
Name of the Elective	Histochemical basis & protocols of H & E staining procedure & slide preparation
Location of hospital lab or research facility	Research Laboratory (Department of Anatomy) Gian Sagar Medical College
Name of internal preceptor (s)	Dr. Sween Walia, Dr. Sahdeep Kaur
Name of external preceptor, if applicable	-
Learning objectives of elective	<ol style="list-style-type: none">1. To learn and demonstrate about equipments used in the process.2. To demonstrate correct method of tissue preparation3. To prepare a write up (flowcharts) of all steps followed4. To prepare well stained slides (H & E staining)
Number of students that can be accommodated in this elective	05
Prerequisites for elective	NA
List of activities of student participation	<ol style="list-style-type: none">1. Working daily in Histology Laboratory as team member2. Presentation of seminar on principles of tissue processing & staining steps3. Tissue processing4. Preparation of stains5. Slide staining (by H & E)
Learning resources	<ol style="list-style-type: none">1. Anatomy Histology text books (Carleton's histo techniques from Department library)2. Handouts on Laboratory techniques
Portfolio entries required	<ol style="list-style-type: none">1. Documentation of seminar presented2. Documentation of step by step procedure3. Documentation of two well stained slides (by H & E)
Log book entry required	Satisfactory completion of posting signed by preceptor
Assessment	<ol style="list-style-type: none">1. Attendance2. Seminar presentation3. Performance of assigned task4. Completion of handout notes on full procedure
Other comments	-

NAME OF THE BLOCK	BLOCK 1
Name of the Elective	Morphometric study of 25 dried human skulls
Location of hospital lab or research facility	Dissection Hall, Anatomy Department Gian Sagar Medical College
Name of internal preceptor (s)	Dr. Bhavna, Dr. Shubhangi Maheshwari
Name of external preceptor, if applicable	NA
Learning objectives of elective	<ol style="list-style-type: none">1. To prepare a research protocol as per ICMR guidelines2. To demonstrate the correct use of anthropometric instruments3. To collect data, prepare and analyse on spread sheet
Number of students that can be accommodated in this elective	04
Prerequisites for elective	NA
List of activities of student participation	<ul style="list-style-type: none">• Work with supervisor in making observations & collect data.• Presentation of research protocol• Demonstrate anthropometric measurement in 5 human skulls• Analysis of data with the help of statistician• Data sheet submission
Learning resources	<ul style="list-style-type: none">• SAMARA, O. A.; BADRAN, D. H. et. al Morphometric analysis of the foramen magnum. Int. J. Morphol., 35(4):1270-1275, 2017.• Anatomy books of Head & Neck
Portfolio entries required	<ul style="list-style-type: none">• Documentation of research protocol• Documentation of datasheet• Analysed data sheet
Log book entry required	Satisfactory completion of posting authenticated by preceptor
Assessment	<ul style="list-style-type: none">• Attendance• Seminar Presentation• Providing basic measuring equipment care• Completion of assigned task• Verification of portfolio
Other comments	-

NAME OF THE BLOCK	BLOCK 1
Name of the Elective	Specimen procurement from cadaver & mounting techniques in Anatomy Museum
Location of hospital lab or research facility	Museum, Anatomy Department, Gian Sagar Medical College
Name of internal preceptor (s)	Dr. Maninder Kaur, Dr. Jyoti Kumari
Name of external preceptor, if applicable	NA
Learning objectives of elective	<ul style="list-style-type: none"> • To obtain experience in preparation of wet specimens & dry specimens • To learn about colour restoration & demonstrate preservation of specimens • To learn special methods for preparation of models for gross anatomy & embryology
Number of students that can be accommodated in this elective	06
Prerequisites for elective	NA
List of activities of student participation	<ul style="list-style-type: none"> • Work daily with a supervisor in observing, assisting in preparation of specimen • Demonstrate the procurement of specimen • Mounting the specimens in jar • Preparation of museum catalogue • Seminar on preparation & fixation of specimens
Learning resources	Research papers- Neelamjit Kaur TECHNIQUE FOR PRESERVING COLOURED WET SPECIMEN IN ANATOMY MUSEUM. Int J Anat Res 2017;5(2.2):3824-3828. DOI: 10.16965/ijar.2017.192
Portfolio entries required	<ul style="list-style-type: none"> • Documentation of seminar presentation • Documentation of prepared specimens
Log book entry required	Satisfactory completion of posting authenticated by preceptor
Assessment	<ul style="list-style-type: none"> • Attendance • Submission of one well mounted specimen with proper labelling by each student • Seminar presentation
Other comments	-

NAME OF THE BLOCK	Block 1
Name of the Elective	Voluntary Body donation program (The life after death)
Location of hospital lab or research facility	Anatomy Department , Gian Sagar Medical College & Hospital
Name of internal preceptor (s)	Dr. Bhavna , Dr. Shubhangi Maheshwari
Name of external preceptor, if applicable	NA
Learning objectives of elective	<ol style="list-style-type: none"> 1. Define body donation, distinguish it from organ & tissue donation and recognize the importance of body donation in Medical Education 2. Discuss the ethical, legal & procedural aspects involved in body donation 3. Describe and document the process of registering for body donation including consent, eligibility & institutional protocols. 4. Evaluate public attitudes & awareness about body donation & propose strategies to improve education & outreach
Number of students that can be accommodated in this elective	06
Prerequisites for elective	NA
List of activities of student participation	<ol style="list-style-type: none"> 1. Preparing E-poster/slogans on body donation 2. Presenting seminars on ethical, legal & procedural aspects of body donation. 3. Preparation of documents for registering for body donation including consent. 4. Designing questionnaire to evaluate public attitudes & awareness about body donation.
Learning resources	<ol style="list-style-type: none"> 1. The Punjab Anatomy Act, 1963 2. The Bombay Anatomy Act, 1949 3. Dope Santoshkumar A et al. Body donation. The life after death. Medpulse- International Medical. Journal April 2015; 2(4) : 216-220.
Portfolio entries required	<ol style="list-style-type: none"> 1. E-poster/slogans on body donation 2. Documentation of seminar presentation 3. Documentation of questionnaire for data collection .
Log book entry required	Satisfactory completion of posting signed by preceptor
Assessment	<ol style="list-style-type: none"> 1. Attendance 2. Seminar presentation 3. Awareness camp 4. Completion of assigned task
Other comments	

Code: A5

Name of the Block	Block 1
Name of Elective	Donor motivation, blood donation and post donation care
Location	Blood centre, Gian Sagar Medical College
Name of Internal Preceptor	Dr Neha Syal
Name of External Preceptor	-
Learning objective	<ol style="list-style-type: none">1) To motivate blood donors2) To understand donor fitness criterias3) Observe blood donation4) To provide post donation care and instructions
Number of Students that can be accommodated in this elective	5
Pre requisites for elective	-
Learning resourced for students	Donor deferral guidelines. NACO website
List of activities in which students will participate	<ol style="list-style-type: none">1) Counsel and motivate donors for blood donation2) Observe donor phlebotomy3) Provide post donation information to donors4) Collect data to understand barriers to voluntary blood donation
Portfolio enteries required	Reflective writing
Log book entry required	Completion of posting signed by preceptor with a “meets expectation M” grade
Assessment	Formative- attendance; day today participation in donor motivation and performance of assigned tasks
Other comments	-

Name of Block	1
Name of Elective	Clinical Sampling Practices(Module 1)
Location of Elective	Sample collection area
Name of internal preceptor	Dr Sunil Kumar
Name of external preceptor	NA
Learning objectives	<ul style="list-style-type: none"> • To study the pre-analytical variations that can be associated with blood sampling. • To enumerate the relevant history to be assessed to rule out interferences. • To demonstrate the skills of blood sampling techniques for various test parameters. • To enumerate and explain the order of draw for multiple blood specimens • To enumerate and demonstrate the sample storage and transport to the lab correctly and at right time.
Number of students that can be accommodated	(Four) 4
Prerequisites of Electives	<ul style="list-style-type: none"> • Knowledge about types of lancets and needles. • Knowledge about biomedical waste disposal. • Immunizations, Universal precautions.
List of activities of students participation	<ul style="list-style-type: none"> • Assisting the lab technician in sample collection ,storage and transport of samples and to take necessary action to prevent errors • To work in sample collection area considering factors such as technique, communication, and safety procedures. • Share his/her learning experiences of different sampling techniques using powerpoint presentation
Learning resources	Teitz
Portfolio entries required	<ul style="list-style-type: none"> • Documentation of work done • Documentation of presentations done
Logbook entry required	Completion of posting signed by preceptor
Assessment	<ul style="list-style-type: none"> • Attendance • Day to day participation in given activities • Assessment of documented work done during the posting

Name of Block	1
Name of Elective	Diagnostic Biochemistry (Module 2)
Location of Elective	Hospital Clinical Biochemistry Lab
Name of internal preceptor	Dr Priyanka Malik
Name of external preceptor	NA
Learning objectives	<ul style="list-style-type: none">• Enlist various routine parameters being carried out in clinical biochemistry lab and their clinical correlation• To observe total testing process and its importance.• To study the laboratory operations and errors in the pre-analytical, analytical and post analytical phases.• To demonstrate the conduct of quality control for various routine biochemical tests• To be able to reduce laboratory errors in order to improve laboratory performance
Number of students that can be accommodated	Four (4)
Prerequisites of Electives	<ul style="list-style-type: none">• Students should have the knowledge of universal precautions and safety measures to be taken while working in laboratory• Student should be immunized with HBV and COVID-19 vaccination• Student should wear apron, mask and gloves while working
List of activities of students participation	<ul style="list-style-type: none">• Observe total testing process along with the laboratory staff.• Discuss the observations/results with the preceptors.• Take necessary action to prevent errors• Present quality control assessment in the form of LJ chart for atleast two lab tests done by student as a case workup• Share his/her learning experiences of diagnostic significance of various routine lab parameters using power point presentation
Learning resources	Teitz, department provided handout
Portfolio entries required	<ul style="list-style-type: none">• Documentation of work done in the laboratory• Documentation of presentations done
Logbook entry required	Daily activities need to be entered in log book
Assessment	<ul style="list-style-type: none">• Attendance• Day to day participation in given activities• Presentation of respective LJ Charts and their interpretation• Presentation of clinical case scenarios given by the preceptor

Name of Block	1
Name of Elective	Special Biochemical Markers (Module 3)
Location of Elective	Hospital Clinical Biochemistry Lab
Name of internal preceptor	Dr Saloni
Name of external preceptor	NA
Learning objectives	<ul style="list-style-type: none">• Enlist various special parameters being carried out in clinical biochemistry lab and their clinical correlation• To observe total testing process and its importance.• To study the laboratory operations and errors in the pre-analytical, analytical and post analytical phases.• To demonstrate the conduct of quality control for various special biochemical tests• To be able to reduce laboratory errors in order to improve laboratory performance
Number of students that can be accommodated	Four (4)
Prerequisites of Electives	<ul style="list-style-type: none">• Students should have the knowledge of universal precautions and safety measures to be taken while working in laboratory• Student should be immunized with HBV and COVID-19 vaccination• Student should wear apron, mask and gloves while working
List of activities of students participation	<ul style="list-style-type: none">• Observe total testing process along with the laboratory staff.• Discuss the observations/results with the preceptors.• Take necessary action to prevent errors• Present quality control assessment in the form of LJ chart for at least two lab tests done by student as a case workup• Share his/her learning experiences of diagnostic significance of various special lab parameters using power point presentation
Learning resources	Teitz, department provided handout
Portfolio entries required	<ul style="list-style-type: none">• Documentation of work done in the laboratory• Documentation of presentations done
Logbook entry required	Daily activities need to be entered in log book
Assessment	<ul style="list-style-type: none">• Attendance• Day to day participation in given activities• Presentation of respective LJ Charts and their interpretation• Presentation of clinical case scenarios given by the preceptor

NAME OF BLOCK	BLOCK 1
Name of Elective	Immunization Centre
Location of Hospital lab or research facility	GSMCH Hospital
Name of internal preceptor (s)	Dr. Praizy Bhandari, Dr. Nidhi Nain
Name of external preceptor (if any)	N/A
Learning objectives of the elective	1. Functioning of immunization centre. 2. Orientation to UIP vaccination Schedule. 3. Maintenance of cold chain.
Number of students that can be accommodated in the elective	5
Prerequisites for the elective	1. Necessary Immunization 2. Universal Precaution certificate.
Learning resources for students	Handbook of Immunization for Medical Officers.
List of activities in which the student will participate	1. Maintenance of registers and vaccines. 2. Recording of temp, cold chain. 3. AEFI form. 4. Administration of vaccines.
Portfolio entries required	1. Daily log of activities participated in. 2. No of vaccines administered.
Log book entry required	Successful completion of posting as certified in the log book "Meets expectation 'M' grade"
Assessment	1. Attendance. 2. Viva Voice assessment. 3. Successful completion of learning objectives and log book entry.
Other comments	N/A

NAME OF BLOCK	BLOCK 1
Name of Elective	Community Survey
Location of Hospital lab or research facility	UHTC, Rajpura
Name of internal preceptor (s)	Dr. Amandeep Kaur, Dr. Gunjan Sharma, LMO Dr. Pushapindra Kaushal
Name of external preceptor (if any)	N/A
Learning objectives of the elective	1. To collect data as prescribed in the protocol. 2. To document data in the electronic record. 3. To demonstrate the use of statistical software for doing correctly to do basic research calculations. 4. To write abstract based on collected data. 5. To present abstract to a group of supervisors.
Number of students that can be accommodated in the elective	4
Prerequisites for the elective	Knowledge about Microsoft Excel Laptop.
Learning resources for students	Epidemiology by Leon Gordis.
List of activities in which the student will participate	1. Work with supervisors in making observations, collect data and document as per protocol. 2. Work with statistician to provide statistical analysis of data. 3. Write abstract of the work done. 4. Present abstract in internal /external meeting as poster or oral presentation.
Portfolio entries required	Data collection / entry/ statistical work sheet / analysis abstract created.
Log book entry required	Satisfactory completion of posting with a “Meets expectation ‘M’ grade”.
Assessment	1. Attendance. 2. Viva Voice assessment. 3. Successful verification of required Portfolio entry.
Other comments	N/A

NAME OF BLOCK	BLOCK 1
Name of Elective	Community Clinic
Location of Hospital lab or research facility	UHTC, Rajpura
Name of internal preceptor (s)	Dr. Amandeep Kaur, Dr. Pushapindra Kaushal, , LMO
Name of external preceptor (if any)	N/A
Learning objectives of the elective	1. To provide primary care to patients in a resource limited setting under supervision. 2. To function as a member of a Health Care Team at UHTC. 3. To participate in Health activities of UHTC.
Number of students that can be accommodated in the elective	6
Prerequisites for the elective	1. Required immunizations to be taken. 2. BLS, Basic suturing and First Aid.
List of activities in which the student will participate	1. Provide patient care under the supervision of a community clinic preceptor. 2. Assist in common procedures in a community care clinic. 3. Counsel patients in their own language. 4. Participate in National Health Care Programs offered through UHTC.
Learning resources for students	Washington manual of the Medical Therapeutics
Portfolio entries required	1. Daily log of patients seen and activities participated in. 2. At least 04 fully worked up patients to be documented signed by Lady Medical Officer UHTC & by preceptor.
Log book entry required	Satisfactory completion of posting signed by institutional preceptor.
Assessment	1. Attendance. 2. Successful verification of required Portfolio entry. 3. Successful completion of posting as certified in the log book "Meets expectation 'M' grade".
Other comments	N/A

NAME OF BLOCK	BLOCK 1
Name of Elective	Community Outreach Experience (to see implementation of ICDS/ and Mid Day Meal programmed /National Nutrition Programme in Community)
Location of Hospital lab or research facility	UHTC, Rajpura, Field area (Anganwadi centre/ Primary school)
Name of internal preceptor (s)	Dr. Amandeep Kaur, Dr. Praizy Bhandari LMO
Name of external preceptor (if any)	N/A
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To observe the functioning of Anganwadi centre under supervision. 2. To do growth monitoring of children in A.W.C. 3. Provide Nutrition & Health education to expectant and Nursing mothers.
Number of students that can be accommodated in the elective	6
Prerequisites for the elective	Required immunizations to be taken.
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. To observe the service being provided under ICDS and mid day meal programme in primary schools/A.W.Cs. 2. To do growth monitoring of children < 5 year of age. 3. To conduct Nutrition & Health Education sessions for pregnant and nursing mothers under supervision. 4. To provide Vitamin A and I.F.A to children.
Learning resources for students	<ol style="list-style-type: none"> 1. ICDS and National Nutrition Programme from D.K. Tanejas Health Policies and Programme in India. 2. K .Park textbook of preventive and social medicine.
Portfolio entries required	<ol style="list-style-type: none"> 1. Daily log of activities participated in. 2. At least 02 session of Health Education conducted. 3. Growth monitoring of atleast 5 children.
Log book entry required	Satisfactory completion of posting signed by Institutional 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 the log book “Meets expectation ‘M’ grade”.
Other comments	N/A

NAME OF BLOCK	BLOCK 1
Name of Elective	Health Care Data Processing
Location of Hospital lab or research facility	Biostatistical Unit, Dept of Community Medicine.
Name of internal preceptor (s)	Dr. Gunjan Sharma, Dr. Nidhi Nain
Name of external preceptor (if any)	-
Learning objectives of the elective	1. To demonstrate use of statistical software. 2. To enter data in electronic record correctly. 3. To present data. 4. To do analysis of data. 5. To be able to interpret data.
Number of students that can be accommodated in the elective	6
Prerequisites for the elective	1. Laptop. 2. Basic Knowledge of M.S Excel/SPSS/Python.
List of activities in which the student will participate	1. Extraction of data. 2. Cleaning of data. 3. Coding of data. 4. Analysis data with software.
Learning resources for students	Research Methodology methods and techniques by CR Kothari.
Portfolio entries required	1. Daily log book entry of the activities performed. 2. At least processing of 1 Data set under supervision.
Log book entry required	Successful completion of posting as certified in the log book "Meets expectation 'M' grade".
Assessment	1. Attendance. 2. Successful verification of required Portfolio entry.
Other comments	N.A

NAME OF BLOCK	BLOCK 1
Name of Elective	Maternal and Child Health Outreach
Location of Hospital lab or research facility	RHTC Gajju Khera
Name of internal preceptor (s)	Dr. Divya D Sharma, Dr. Nidhi Nain LMO
Name of external preceptor (if any)	-
Learning objectives of the elective	1. To assess the functioning of MCH programme in community. 2. To assess the factors associated with early ANC Registration.
Number of students that can be accommodated in the elective	5
Prerequisites for the elective	Knowledge about MCH programme (ANC, HBNC)
List of activities in which the student will participate	Home visit of ANC women. Home visit of new born children. Assess the nutrition and immunization of women and newborn.
Learning resources for students	RMNCHA+N Guidelines by MOHFW Universal Immunization Programme
Portfolio entries required	Fully worked up cases of ANC. Fully worked up cases of Newborn.
Log book entry required	Satisfactory completion of posting authenticated by preceptor.
Assessment	1. Attendance. 2. Successful verification of required Portfolio entry. 3. Successful completion of posting as certified in the log book "Meets expectation 'M' grade".
Other comments	N.A

NAME OF BLOCK	BLOCK 1
Name of Elective	Rural Community Health Centre
Location of Hospital lab or research facility	RHTC GajjuKhera
Name of internal preceptor (s)	Dr. Divya D Sharma, LMO, Dr. Rupali Verma Bagga
Name of external preceptor (if any)	-
Learning objectives of the elective	1. To provide comprehensive care to the patients in the resource limited setting. 2. To participate in Health activities of RHTC. 3. To function as a member of Health Care team at RHTC.
Number of students that can be accommodated in the elective	5
Prerequisites for the elective	BLS, Basic scurning and First Aid promotive and preventives aspect of disease, medical management of disease
List of activities in which the student will participate	1. Provide curative to the patient 2. Provide preventive care to the patient as well as the family members. 3. Educating people about the disease.
Learning resources for students	1. K. Park text book of Community Medicine. 2. Washinton manual Medical Therapeutics.
Portfolio entries required	1. Daily log of patient seen and activities participated in. 2. 5 fully worked up patients to be documented and signed by LMO and by internal preceptor.
Log book entry required	Satisfactory completion of posting signed by Institutional Perceptor.
Assessment	1. Attendance 2. Successful verification of required Portfolio entry. 3. Successful completion of posting as certified in the log book "Meets expectation 'M' grade" 4.Viva
Other comments	N.A

NAME OF BLOCK	BLOCK 1
Name of Elective	Community Survey
Location of Hospital lab or research facility	RHTC GajjuKhera
Name of internal preceptor (s)	Dr. Divya D Sharma, Dr. Gunjan Sharma, LMO Dr. Rupali Verma Bagga
Name of external preceptor (if any)	N/A
Learning objectives of the elective	1. To collect data as prescribed in the protocol. 2. To document data in the electronic record. 3. To demonstrate the use of statistical software for doing correctly to do basic research calculations. 4. To write abstract based on collected data 5. To present abstract to a group of supervisors
Number of students that can be accommodated in the elective	5
Prerequisites for the elective	Knowledge about Microsoft Excel, Personal Laptop
List of activities in which the student will participate	Writing proposal Collecting Data Entering data and interpretation of data Using data for information and education of Community
Learning resources for students	NFHS Survey 2019-21 Research Methodology book by CR Kothari
Portfolio entries required	Proposal writing Entry in Excel Sheet
Log book entry required	Successful completion of posting as certified in the log book "Meets expectation 'M' grade"
Assessment	1. Attendance. 2. Successful verification of required Portfolio entry. 3. Viva.
Other comments	N.A

Code: A17

Name of Block	Block 1
Name of Elective	Medicolegal autopsy & crimescene investigation
Location of hospital lab or research facility	Department/ Mortuary of hospital
Name of internal preceptor(s)	Dr. Sandeep Raju
Name of external preceptor (if any)	NA
Learning objectives of the elective	To demonstrate under faculty supervision- <ol style="list-style-type: none">1. Basic steps of medico-Legal autopsy2. Basic mechanism of crime scene investigation3. Physical & trace evidence collection & preservation4. Able to determine cause & manner of death as per ICD-10 through autopsy finding
Number of students that can be accommodated in this elective	6
Prerequisites for the elective	<ol style="list-style-type: none">1. Identification of autopsy instruments & analysis of important autopsy documents.2. Basic steps of autopsy & trace evidence collection3. Basic crime scene Investigation in a simulated environment4. Correct method of writing Cause of death as per ICD-10.
Learning resources for students	<ol style="list-style-type: none">1. Autopsy & crime scene video demonstration2. The essentials of Forensic Medicine and Toxicology by K S Narayan Reddy3. Textbook of Forensic Medicine by Dr Anil Agarwal
List of activities in which the student will participate	Identification of autopsy instruments & analysis of important autopsy documents, basic steps of autopsy & trace evidence collection. Basic crime scene Investigation in a simulated environment. Correct method of writing Cause of death as per ICD-10.
Portfolio entries required	<ul style="list-style-type: none">• Record of evidence collection from simulated crime scene Seminars
Log book entry required	Completion of posting signed by preceptors with a “meets expectation ‘(M)’ grade”
Assessment	Formative assessment- <ul style="list-style-type: none">• Attendance• day-to-day participation in departmental activity• Identification of autopsy instruments(MCQ’s,OSCE)• Presentation of worked up autopsy case in department• Problem solving case scenarios
Other Comments	

Name of Block	Block 1
Name of Elective	Forensic Traumatology
Location of hospital lab or research facility	Department/ Emergency of Gian Sagar
Name of internal preceptor(s)	Dr.Sanchit Narang
Name of external preceptor (if any)	Not Applicable
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To understand the role of different mechanical injuries in medico legal practice. 2. To examine the injured person in a simulated / supervised environment. 3. To provide awareness among students towards medico legal practice. 4. To have hands on training for preparing different medico legal reports. 5. To Prepare the medico legal report in a simulated / supervised environment. 6. Knowledge skill : Know the different types of injuries and their medico legal importance. 7. Procedural skill: Know the steps how to prepare different medico legal reports. 8. Identify the steps in conducting MLR and apply the steps in conducting the MLRs
Number of students that can be accommodated in this elective	6
Prerequisites for the elective	<ol style="list-style-type: none"> 1. Volunteer/ Patient 2. Bed / Couch / Table 3. Measuring tape 4. Magnifying Glass 5. Hand-outs – Steps of Autopsy and handling of body 6. Surgical Gloves of different sizes. 7. Injury register with pictorial diagram 8. First aid box 9. Clinical waste dustbin
Learning resources for students	<ol style="list-style-type: none"> 1. Textbook of Forensic Medicine and Toxicology by Krishan Vij 2. The essentials of Forensic Medicine and Toxicology by K S Narayan Reddy
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Lectures 2. Small Group discussions (SGD) 3. DOAP 4. Prepare and present at least two MLR cases in departmental academic forum 5. Student centered seminars 6. Student centered project presentations 7. Discussions and presentations on case scenarios 8. Role play
Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of observed/supervised MLRs. 2. Documentation of performed MLRs. 3. Documentation of various academic activities done. 4. Work book entries on day to day basis.
Log book entry required	Satisfactory completion of posting authenticated by preceptor
Assessment	Attendance , Successful verification of required portfolio entries Successful completion of the posting as certified in the log book with a “meets expectation ‘M’ grade”

Name of Elective	BLOCK 1
Name of elective	Demonstrate the correct technique of clinical examination in a suspected case of poisoning & prepare medico legal report in a simulated/supervised environment. Assist and demonstrate the proper technique in collecting, preserving and dispatch of the exhibits in a suspected case of poisoning along with clinical examination.
Location of hospital lab or research facility	Emergency of Gian Sagar Medical College and hospital/ Skill Lab
Name of internal preceptor(s)	Dr.Sandeep Raju
Name of external preceptor(if any)	NA
Learning objectives of the elective	<ul style="list-style-type: none"> • The student should be able to obtain appropriate history and document all the preliminary data & two identification marks in a case of suspected poisoning in a simulated/supervised environment correctly. • The student should be able to obtain consent in a simulated/ supervised environment correctly. • The student should be able to describe the assessment of the condition of the patient with correct methods of physical examination in a suspected case of poisoning in a simulated/supervised environment correctly. • The student should be able to prepare a medicolegal report by collaborating all the findings after physical examination in a suspected poisoning case in simulated/supervised environment correctly. • The student should be able to analyze and decide the nature of the injuries (Simple/Grievous) in a suspected case of poisoning in a simulated/supervised environment correctly. • The student should be able to infer the opinion with particular date, signature,Name,designation,seal,)inasimulated/supervisedenvironment correctly. • The student should be able to enumerate all the routine samples to be collected with their preservatives in suspected case of poisoning correctly. • The student should be able to demonstrate proper technique of collecting the exhibits in a suspected case of poisoning. • The student should be able to demonstrate proper technique of preserving & sealing the exhibits in a suspected case of poisoning. • The student should be able to prepare labels of samples/lavage/viscera/exhibits in a suspected case of poisoning. • The student should be able to prepare FSL forwarding requisition form of the exhibits in a suspected case of poisoning. • The student should be able to enumerate all the routine samples to be collected with their preservatives in suspected case of poisoning correctly.
Number of students that can be accommodated in this elective	6
Prerequisites for the elective	NA
Learning resources for students	Knowledge of various common poisons, signs and symptoms, detection, treatment
List of activities in which the student will participate	Departmental books provided 1. Medical Toxicology by VV Pillay 2. Textbook of Forensic Medicine by Dr Anil Agarwal 3. Goldfrank's Toxicological Emergencies

Portfolio entries required	<ol style="list-style-type: none"> 1. Work with supervisor in making observations, collect data and document as per protocol. 3. Collect data as prescribed in the protocol 4. Document details in work sheet/MLR format. 5. Participate in departmental Education activities. 6. Write abstract of work done 7. Present abstract in an internal meeting and/ as a poster or oral presentation
Log book entry required	Patient s data, Laboratory notes, investigations, Management plan.
Assessment	Satisfactory completion of posting signed by preceptor with a ‘ meets expectation’ “(M) grade”
Other comments	Attendance - Performance of assigned tasks and presentation of worked up case in department - Successful completion of research objectives - Log book entry

Name of Block	Block1
Name of Elective	Medical Jurisprudence
Location of hospital lab or research facility	Forensic Medicine Department.
Name of internal preceptor(s)	Dr. Sanchit Narang
Name of external preceptor (if any)	NA
Learning objectives of the elective	<ol style="list-style-type: none"> 1. CONSENT IN MEDICAL PRACTICE: <ol style="list-style-type: none"> i. To make the student understand the types and importance of consent & its documentation in medical practice. ii. To make the student learn various components of a valid consent. iii. To make the student learn Indian laws relevant to consent in different scenario. iv. To make the student able to analyze the consent forms for various procedures from the case files. v. To make the student able to obtain procedure specific valid consent under supervision. 2. MEDICAL NEGLIGENCE: <ol style="list-style-type: none"> i. To make the student learn various components of medical negligence. ii. To make the student study the judgements given by Consumer Disputes Redressal Commissions in medical negligence cases. iii. To make the student learn to opine in cases of medical negligence.
Number of students that can be accommodated in this elective	6
Pre requisites for the elective	Basic Knowledge of Consent and Medical negligence.
Learning resources for students	Textbooks of Forensic Medicine, Case files in the Medical Record Department, Compendium of CPA Medical Judgements

List of activities in which the student will participate	<p>Morning Hours:(At the MRD)</p> <ol style="list-style-type: none"> 1. Study the case sheets and consent forms from the case files at Medical Record Department selected by the Faculty of Forensic Medicine Department under supervision. 2. Study various components of a valid consent in the consent forms & validity of the consent forms as per Indian laws. 3. Design/formulate at least 5 procedure specific consent forms. 4. Observe & participate with the clinician in obtaining the consent for various procedures (at least once in a week by visiting the wards as per instructions from the faculty of Forensic Medicine). <p>AFTERNOON HOURS: (At Forensic Medicine department)</p> <ol style="list-style-type: none"> 1. Study at least 5 cases of Medical negligence from the literature made available by the department of Forensic Medicine. 2. Spend 2 days for studying the facts of the case and 1day for case presentation & discussion per case.(2cases perweek) 3. Active participation in case discussion.
Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of examined case files and consent forms. 2. At least 2 procedure specific consent forms. 3. Documentation of studied cases of medical negligence.
Log book entry required	Completion of posting signed by preceptor & Head of the department with a “Meets the expectations ‘ (M) ’ grade”
Assessment	<p>Formative:</p> <ol style="list-style-type: none"> 1. Attendance 2. Day-to-day participation in case files & consent forms. 3. Performance of assigned tasks with relation to obtaining the consent. 4. Active participation in case discussions of medical negligence.
Other comments	Student Must complete the assigned learning List of activities.

NAME OF THE BLOCK	BLOCK 1
Name of the Elective	Designing of an e-poster
Location of hospital lab or research facility	Medical Education Unit & Library computer Lab
Name of internal preceptor (s)	Dr. Nayana Pathak , Dr. Neha syal
Name of external preceptor, if applicable	NA
Learning objectives of elective	<ul style="list-style-type: none"> • To study research done on a given topic and extract relevant information for inclusion in an e-poster • Develop basic skills in manipulating images, text and layout within the chosen design software • Summarize key points and organize content in a logical and coherent manner
Number of students that can be accommodated in this elective	06
Prerequisites for elective	<ul style="list-style-type: none"> • Familiarity with basic computer skills • Ability to conduct basic online research to gather information on a given topic
List of activities of student participation	<ul style="list-style-type: none"> • Write an abstract in word format on the given research topic • Design e-poster (as power point) that adhere to accessibility standards for diverse audiences • Effectively present e-poster, engaging with the audience
Learning resources	<ul style="list-style-type: none"> • Websites like Smashing Magazine, Creative bloq adobe illustrate and canva
Portfolio entries required	<ul style="list-style-type: none"> • Documentation of abstract • Documentation of e-poster • Documentation of presentation
Log book entry required	<ul style="list-style-type: none"> • Satisfactory completion of the activities done and signed by preceptor
Assessment	<ul style="list-style-type: none"> • Attendance • Day to day participation in given activities • Presentation of e-poster
Other comments	-

NAME OF THE BLOCK	BLOCK 1
Name of the Elective	Microbiology (Bacteriology Lab Experience)
Location of hospital lab or research facility	Clinical Microbiology Lab, 4 th Floor of the Hospital.
Name of internal preceptor (s)	1. Dr. Maninder Kaur 2. Dr. Neetika Kalra
Name of external preceptor, if applicable	NA
Learning objectives of elective	1) The students will observe, assist, and perform the process of culturing of the microbiology samples. 2) The students will assist and perform the identification of the isolated bacteria and antibiotic sensitivity testing of bacterial isolates. 3) To assist in the departmental teaching programme. 4) To assist in the media preparation room in preparation of various types of media.
Number of students that can be accommodated in this elective	6
Prerequisites for elective	----
List of activities of student participation	1) The students will observe and assist in the process of the samples receiving in the lab. 2) To prepare a list of the various samples received in microbiology lab and the corresponding infections. 3) To perform the culture, identification and antibiotic sensitivity of the isolates received in the lab independently. 4) To present their findings in the case discussion- daily one student. 5) To assist and perform in preparation of Blood Agar, Chocolate Agar, and RCM. 6) To assist in use of autoclave in the laboratory. 7) Submit assignment of various types of controls used in the autoclave. 8) Interpretation of microbiology lab repots.
Learning resources	Microbiology Text Book
Portfolio enteries required	<ul style="list-style-type: none"> • Attendance • Performance of assigned tasks • Active participation
Log book entry required	Satisfactory completion of the activities done and signed by preceptor
Assessment	Formative
Other comments	

NAME OF THE BLOCK	BLOCK 1
Name of the Elective	Microbiology (Infection Control Programme)
Location of hospital lab or research facility	Clinical Microbiology Lab, 4 th Floor of the Hospital.
Name of internal preceptor (s)	3. Dr. Maninder Kaur 4. Dr. Bhavana Yadav
Name of external preceptor, if applicable	NA
Learning objectives of elective	<ul style="list-style-type: none"> • The students will be sensitized to various infection control practices in the hospital. • To define the basic definitions used in HAI surveillances. • The students will observe and assist ICN in audit of hand hygiene. • The students will learn to track the cases of CAUTI and VAP and learn to calculate the CAUTI and VAP rates. • To students will audit the BMW in various clinical departments. • The students will undertake small hand on activity of swabbing the hands of HCW and putting up culture of hand swabs.
Number of students that can be accommodated in this elective	7
Prerequisites for elective	----
List of activities of student participation	<ul style="list-style-type: none"> • To visit ICU and to enlist the patients with urinary catheter and on ventilator. • To prepare A4 size chart on bundle approach for prevention of CAUTI and VAP. • To prepare PPT on the clinical and microbiological creation for CAUTI and VAP. • To perform BMW auditing and prepare a report of the same and present it. • Activity of hand swab collection of HCW and to put culture of the same prepare the report and present it. • To track the total catheter days or ventilator days in ICU and calculation of CAUTI and VAP rates.
Learning resources	Microbiology Text Book
Portfolio enteries required	<ul style="list-style-type: none"> • Attendance • Performance of assigned tasks • Active participation
Log book entry required	Satisfactory completion of the activities done and signed by preceptor
Assessment	Formative
Other comments	

NAME OF THE BLOCK	BLOCK 1 / BLOCK 2
Name of the Elective	Microbiology (Molecular Lab Experience)
Location of hospital lab or research facility	Molecular Lab, 3 rd Floor of the Medical College.
Name of internal preceptor (s)	5. Dr. Neha Sharma 6. Dr. Maninder Kaur 7. Mr. Dipankar Biswas
Name of external preceptor, if applicable	NA
Learning objectives of elective	1) The student will assist and perform the sample collection for RT-PCR test for covid. 2) The students will perform the triple layer packing of RT-PCR samples for Covid. 3) The students observe the full procedure of sample decontamination, RNA extraction and master mix preparation in the molecular lab and prepare assignment of the steps of the same. 4) The students must be able to interpret the reports of RT-PCR test for COVID.
Number of students that can be accommodated in this elective	7
Prerequisites for elective	----
List of activities of student participation	1. Visit to the flu corner and sample collection area. 2. To perform the proper sample collection and packing of the sample for RT-PCR test. 3. To visit the various sections of RT-PCR lab. 4. To prepare A4 size charts on basic steps of a) PCR procedure. b) Methods of RNA extraction. c) Methods of Master mix preparation. 5. To prepare PPT on a) The structure of COVID-19 virus. b) Various diagnostic tests used for covid infection. c) Various target genes for Covid RT-PCR test. d) Types of COVID vaccines. 6. To demonstrate proper sequence of donning and doffing of PPE and proper method of donning and doffing of each PPE. 7. Hands on practice to file SRF forms. 8. Interpret the report for COVID-19 RT-PCR Test.
Learning resources	Microbiology Text Book
Portfolio entries required	<ul style="list-style-type: none"> • Attendance • Performance of assigned tasks • Active participation
Log book entry required	Satisfactory completion of the activities done and signed by preceptor
Assessment	Formative
Other comments	

NAME OF THE BLOCK	BLOCK 1
Name of the Elective	Urine examination -Chemical examination and microscopic examination (M- Path- 02)
Location of hospital lab or research facility	Clinical path lab (Central lab)-GSMCH
Name of internal preceptor (s)	Dr. Tripti Jain
Name of external preceptor, if applicable	
Learning objectives of elective	At the completion of the elective, third year MBBS (part II) student must know to <ul style="list-style-type: none"> - Document and receive samples for urine examination. - Process the samples for urine examination. - Perform chemical examination (Sugar/Protein/Ketone) on urine samples by reagent strip. - Perform microscopic examination of urine and look for cells/ casts/ crystals - Form a report and dispatch it.
Number of students that can be accommodated in this elective	6
Prerequisites for elective	<ul style="list-style-type: none"> - Familiar with universal safety precautions. - Necessary immunization. - Knowledge about the biomedical waste disposal guidelines, 2018.
List of activities of student participation	<ul style="list-style-type: none"> - Orientation to the working of the clinical path lab. - Documentation and receiving of urine samples - Processing of urine samples. - Chemical and microscopic examination of urine. - Correlation with available clinical history - Preparing a urine report
Learning resources	<ul style="list-style-type: none"> - Henry's clinical diagnosis and management by laboratory methods 24th e
Portfolio entries required	Yes. <ul style="list-style-type: none"> - Documentation of samples received and processed. - Documentation of number of chemical and microscopic examination performed. - Number of cases reported independently.
Log book entry required	Completion of posting signed by preceptor with 'meets expectation M grade'
Assessment	Formative <ul style="list-style-type: none"> - Attendance - Performance of assisted task - Presentation of the worked up cases - Log book entry
Other comments	

NAME OF THE BLOCK	BLOCK 1
Name of the Elective	Hematology- Peripheral smear preparation and interpretation (M-Path-01)
Location of hospital lab or research facility	Hematology lab (Central lab) - GSMCH
Name of internal preceptor (s)	Dr. Sumit Chahal
Name of external preceptor, if applicable	
Learning objectives of elective	<p>At the completion of the elective, third year MBBS (part II) student must be able to</p> <ul style="list-style-type: none"> - Receive and document the samples for peripheral smear examination. - Enumerate the indications for peripheral smear examination. - Prepare smear and stain slides for peripheral smear examination. - Perform DLC and RBC interpretation under supervision. - Differentiate the smears into various types of anaemia (based on RBC indices and smear examination), if applicable.
Number of students that can be accommodated in this elective	6
Prerequisites for elective	<ul style="list-style-type: none"> - Familiar with universal safety precautions. - Necessary immunization. - Knowledge about the biomedical waste disposal guidelines, 2018.
List of activities of student participation	<ul style="list-style-type: none"> - Orientation to lab environment. - Documentation and receiving of samples. - Preparation of smear for peripheral smear examination. - Staining of slides using leishman's stain - Performing DLC, platelet count and RBC morphology interpretation - Presentation: Peripheral smear preparation and staining/ Two cases of peripheral smears interpreted.
Learning resources	<ul style="list-style-type: none"> - Dacie and Lewis Practical Hematology, 12th e.
Portfolio entries required	<p>Yes.</p> <ul style="list-style-type: none"> - Documentation of number of smears prepared and stained. - Documentation of number of cases interpreted. - Presentation.
Log book entry required	Completion of posting signed by preceptor with 'meets expectation M grade'
Assessment	<p>Formative- Attendance</p> <ul style="list-style-type: none"> - Performance of assisted task - Presentation - Log book entry
Other comments	

Code: A27

NAME OF THE BLOCK	BLOCK 1
Name of the Elective	Hematology - Receiving of samples (M-Path-03)
Location of hospital lab or research facility	Hematology lab (Central lab)- GSMCH
Name of internal preceptor (s)	Dr. Amulyajit Kaur
Name of external preceptor, if applicable	
Learning objectives of elective	At the completion of the elective, third year MBBS (part II) student must know <ul style="list-style-type: none">- To know about the various blood samples received in the hematology lab.- To know about the various anticoagulants.- To know about the rejection criteria of various samples- To know about the prerequisite documents, record keeping and BMW waste disposal of the samples
Number of students that can be accommodated in this elective	6
Prerequisites for elective	<ul style="list-style-type: none">- Familiar with universal safety precautions.- Necessary immunization.- Knowledge about the biomedical waste disposal guidelines, 2018.
List of activities of student participation	<ul style="list-style-type: none">- Orientation to the working of the Hematology lab.- Check the required documents (Requisition form)- Receiving blood samples in appropriate anticoagulant vial.- Accept/ reject a sample following the criteria for acceptance- Disposal of the samples following BMW guidelines.- Presentation on sample receiving prerequisites.
Learning resources	<ul style="list-style-type: none">- Dacie and Lewis Practical Hematology, 12th e.- Henry's clinical diagnosis and management by laboratory methods 24th e
Portfolio entries required	Yes. <ul style="list-style-type: none">- Documentation of sample rejection criteria- Documentation of the number of samples rejected.- Documentation of the presentations done
Log book entry required	Completion of posting signed by preceptor with 'meets expectation M grade'
Assessment	Formative <ul style="list-style-type: none">- Attendance- Performance of assisted task- Log book entry
Other comments	

Name of Block	BLOCK 1
Name of Electives	Clinical Pharmacology (Dose adjustment in patients with compromised renal function)
Location of Hospital lab or research facility	Department of Pharmacology, Gian Sagar Medical college and Hospital
Name of Internal Preceptor (s)	Dr. Prem Parkash Khosla, Dr. Shanu Raina, Dr. Aanchal Mahajan
Name of External Preceptor(if any)	None
Learning objective of the elective	<ol style="list-style-type: none"> 1. To list the therapeutic dose of commonly used drugs as in National Formulary of India 2. To list drugs whose dose needs to be adjusted in compromised renal function 3. To list different formula /Nomograms for dose adjustment 4. To adjust dose in patients with compromised renal functions
Number of students that can be accommodated in this elective	6
Prerequisites for the electives	Basic knowledge of Pharmacology (MBBS Phase 3 - part 1 and Part 2 students)
Learning resources for students	<ol style="list-style-type: none"> 1. National Formulary of India 2. Tools for calculation of dose adjustment in patients with compromised renal function.
List of activities in which the students will participate	<ol style="list-style-type: none"> 1. Ward rounds (patients with decreased renal functions) 2. Identification of drugs in the treatment chart need to be adjusted with decreased Creatinine Clearance. 3. Training to calculate adjusted dose using Nomograms /Excel programme for dose adjustments. 4. Training on case based problems requiring dose adjustment 5. Feedback to the consultants
Portfolio entries required	Yes
Log Book entry required	Satisfactory completion of posting undersigned by preceptor with a 'Meets expectation' grade
Assessment	Attendance, Formative Assessment
Other comments	Useful for MBBS Phase –III (part I & II) Batch and for Clinical Practice

Name of Block	BLOCK 1
Name of Electives	Pharmacovigilance (To identify, report and assess the severity, causality and preventability of ADRs)
Location of Hospital lab or research facility	Department of Pharmacology, Gian Sagar Medical college and Hospital
Name of Internal Preceptor (s)	Dr. Prem Parkash Khosla, Dr. Shanu Raina, Dr. Aanchal Mahajan
Name of External Preceptor(if any)	None
Learning objective of the elective	<ol style="list-style-type: none"> 1. To understand the principles of Pharmacovigilance 2. To take complete drug history 3. To identify an ADR and report the same using appropriate ADR reporting form 4. To assess the severity, causality, and preventability of ADRs 5. To identify drug-drug and drug -food interactions
Number of students that can be accommodated in this elective	6
Prerequisites for the electives	Basic knowledge of Pharmacology (MBBS Phase 3 - part 1 and Part 2 students)
Learning resources for students	<ol style="list-style-type: none"> 1. Pharmacovigilance Programme of India 2. Tools for assessment <ul style="list-style-type: none"> • WHO Causality Assessment Scale • Hartwig Severity Scale • Schumock and Thornton Preventability Scale 3. Basic and Clinical Pharmacology by Katzung
List of activities in which the students will participate	<ul style="list-style-type: none"> • Collection of ADRs • Filling up of the ADR reporting form • Assessing the causality, severity, and preventability of the ADR • Case presentation
Portfolio entries required	Yes
Log Book entry required	Satisfactory completion of posting undersigned by preceptor with a 'Meets expectation' grade
Assessment	Attendance, Formative Assessment
Other comments	Useful for MBBS Phase –III (part I & II) Batch and for Clinical Practice

NAME OF THE BLOCK	BLOCK 1
Name of the Elective	Hematology
Location of hospital lab or research facility	Department of Physiology, GSMCH, Rajpura Dist. Patiala
Name of internal preceptor (s)	Dr. Babita Bansal, Dr. Jaspreet Takkar
Name of external preceptor, if applicable	NIL
Learning objectives of elective	<p>At the end of the module the student shall be able to develop skill about the proper handling and usage of laboratory equipment with safe and disposal methods for biomedical waste generated in haematology lab.</p> <ul style="list-style-type: none"> • Develop adequate skill for collecting blood samples as per standard lab protocol. • Develop adequate skill for performing essential haematology procedures relevant to common disorders (Clinical) • Develop essential skill to interpret the result of the essential haematological procedures.
Number of students that can be accommodated in this elective	06
Prerequisites for elective	Candidate should have prior knowledge of universal precautions and safe lab practices
List of activities of student participation	Participate and assist in routine haematology practical demonstrations.
Learning resources	Wintrobe's clinical haematology bt John. P. Sreer.
Portfolio entries required	<ul style="list-style-type: none"> • Number of blood samples collected • No. of haematology tests done. • Clinical corelation of the findings of haematology tests done.
Log book entry required	Meets expectation/doesn't meet expectation
Assessment	<ul style="list-style-type: none"> • Seminar presentation about common haematology disorders. • Assessment by independent performance and interpretation of the test results
Other comments	_____

Code: A31

NAME OF THE BLOCK	BLOCK 1
Name of the Elective	(Electrophysiology of Heart) CVS (Cardiovascular System)
Location of hospital lab or research facility	Department of Physiology GSMCH, Rajpura Dist. Patiala
Name of internal preceptor (s)	Dr. Manpreet Singh, Dr. Poonam G. Kohli
Name of external preceptor, if applicable	NIL
Learning objectives of elective	<ul style="list-style-type: none">• At the end of the module students should be able to properly hand & use the electro cardiogram machine• Must develop the skill about the usage & application of all the attached electrodes of the machine• Must accurately follow safety precautions while doing ECG.• About the proper disposal of used cotton following the biomedical waste disposal rule.• Know about how to interpret the ECG
Number of students that can be accommodated in this elective	06
Prerequisites for elective	Candidates find ways have prior knowledge of functional anatomy & electrophysiological properties of heart
List of activities of student participation	<ul style="list-style-type: none">• Participate & assist in clinical lab performing ECG test.• Single channel electrocardiogram machine
Learning resources	<ul style="list-style-type: none">• The ECG made easy John Hampton practical guide to ECG• Golwalla's electrocardiography for medical students and general practitioners
Portfolio enteries required	<ul style="list-style-type: none">• No. of ECGs recorded independently• Clinical corelation of the findings of ECGs Recorded .
Log book entry required	Meet expectation/doesn't meet expectation
Assessment	<ul style="list-style-type: none">• Seminar presentation/PPT.• Assessment by independent performance and interpretation of the test results
Other comments	_____

NAME OF THE BLOCK	BLOCK 1
Name of the Elective	(Electrophysiology of Heart) CVS (Cardiovascular System)
Location of hospital lab or research facility	Department of Physiology GSMCH, Rajpura Dist. Patiala
Name of internal preceptor (s)	Dr. Manpreet Singh, Dr. Poonam G. Kohli
Name of external preceptor, if applicable	NIL
Learning objectives of elective	<ul style="list-style-type: none"> • At the end of the module students should be able to properly hand & use the electro cardiogram machine • Must develop the skill about the usage & application of all the attached electrodes of the machine • Must accurately follow safety precautions while doing ECG. • About the proper disposal of used cotton following the biomedical waste disposal rule. • Know about how to interpret the ECG
Number of students that can be accommodated in this elective	06
Prerequisites for elective	Candidates find ways have prior knowledge of functional anatomy & electrophysiological properties of heart
List of activities of student participation	<ul style="list-style-type: none"> • Participate & assist in clinical lab performing ECG test. • Single channel electrocardiogram machine
Learning resources	<ul style="list-style-type: none"> • The ECG made easy John Hampton practical guide to ECG • Golwalla's electrocardiography for medical students and general practitioners
Portfolio enteries required	<ul style="list-style-type: none"> • No. of ECGs recorded independently • Clinical corelation of the findings of ECGs Recorded .
Log book entry required	Meet expectation/doesn't meet expectation
Assessment	<ul style="list-style-type: none"> • Seminar presentation/PPT. • Assessment by independent performance and interpretation of the test results
Other comments	_____