# Index

	Department	Elective (Click hyperlink to go to details of learning experiences)	No. of Seats	Faculty In-charge
Ble	ock – 1	,		
		Introduction to histology- Practical and		
	A	Clinical approach	3	Faculty of Anatomy
1.	Anatomy	Introduction to Medical genetics	3	Faculty of Anatomy
		3D Virtual Dissection	3	Faculty of Anatomy
		Introduction to Research Methodology		
		(Literature Search & Reference Management)	3	Faculty of Anatomy
2	D' 1 ' .	Clinical Chemistry - 1	3	Dr. Alice A Ruram
2.	Biochemistry	Clinical Chemistry - 2	3	Dr. Happy Chutia
3.	Community	Com Med Research Methodology	2	Dr. Shanthosh Priyan S
	Medicine	Outbreak_Investigation	1	Dr. Star Pala
	avicalenic	Health Education	1	Dr. Star Pala
				Dr. Shanthosh Priyan S
		School Health Programme	2	D GL 1 1 D : G
		<u>Integrated_Child_Development_Services</u>	2	Dr. Shanthosh Priyan S
		National Health Programme National Tu b		Faculty of Community Medicine
		<u>U</u>	2	Wedichie
		Virtual Autopsy	2	Faculty of Forensic Medicine
4.	Forensic Medicine	Forensic Analytical Toxicology	2	Faculty of Forensic Medicine
5.				Dr. W. V. Lyngdoh
	Microbiology	Clinical Microbiology	3	Dr. C. J. Lyngdoh
				Dr. Dabet Rynga
6.	Pathology	Clinical Hematology - Analysis of Total		
		leucocyte count (TLC) in patients of Chronic kidney Disease on Hemodialysis	1	Faculty of Pathology
		Clinical Hematology -	1	ractity of Fathology
		Clinicopathological profile of Anemia in		
		geriatric population in a tertiary care		
		institute	1	Faculty of Pathology
		<u>Clinical Hematology - Hematological</u> parameters in diagnosed cases of Type II		
		Diabetes	1	Faculty of Pathology
		Clinical Hematology -		
		Clinicopathological profile of eosinophila		
		in a tertiary care centre	1	Faculty of Pathology
		<u>Clinical Hematology - Platelets counts in</u> patients with iron deficiency anemia		
		(IDA)	1	Faculty of Pathology
		Dermatopathology	2	Faculty of Pathology
		Cytopathology	4	Faculty of Pathology
		Clinical Pathology (Analysis of urine, body fluids, semen, CSF)	4	Faculty of Pathology
		Cancer screening using pap smear	4	Faculty of Pathology
		Role of anticoagulants in hematology and related lab services	5	Faculty of Pathology

7.	Pharmacology	<u>Pharmacovigilance</u>	3	Faculty of Pharmacology
		Point Prevalence Survey of Antibiotics	3	Faculty of Pharmacology
		Study of Autonomic function test (Cardiovascular & Vasomotor)	4	Dr. Rituparna Barooah
		Study of Physiological Effects of YOGA & MEDITATION in health & disease	4	Dr. Rituparna Barooah
		Study of ECG in health and in cardiac dysfunction	4	Dr. Rituparna Barooah
	Physiology	Study of perimetry & visual field in health & glaucoma	3	Dr. John A Lyngdoh Dr. Rituparna Barooah
8.		Study of ergography using Mosso's  Ergography in adolescent and geriatric age group	3	Dr. John A Lyngdoh Dr. Rituparna Barooah
		Study of stethography in health and respiratory disease	3	Dr. John A Lyngdoh Dr. Rituparna Barooah
9.	Radiation Oncology	Oncology Research	2	Faculty of Radiation Oncology
10.	Surgical Oncology	Primer in Cancer Research	2	Faculty of Surgical Oncology
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Blo	ck - 2			
	Anaesthesiolo gy &Critical Care	Airway Assessment and Management	2	Dr. Nari M. Lyngdoh Dr. Rajani Thabah Dr. Priyanka Dev Dr. Neha Rawat Dr. Laltanpuii Sailo Dr. Praneshwori Sinam Dr. Newstar Syiemiong Dr. Raju Shakya Dr. Mukul Garg
		Introduction to Critical care	2	Faculty of Anaesthesia
2	C 1' 1	Introduction to Interventional Cardiology	2	Faculty of Cardiology
2.	Cardiology	Echo cardiography and Cardiac imaging	3	Faculty of Cardiology
3.	CTVS	Introduction to Cadiothoracic and Vascular Surgery	4	Dr. Reuben L. Kynta Dr. Neelamjingbha Sun
4.	Dentistry	Dental Caries and Non Caries Lesion	2	Dr. S. Vijay Singh Dr. Lomtu Ronrang
5.	Dermatology	Cutaneous Adverse Reactions (CADR)	2	Dr. Shikha Thakur Dr. Anita Marak
6.	ENT	Endoscopies in ENT both rigid and fibreoptic	3 to 4	Dr. Suvamoy Chakraborty Dr. Abhijeet Bhatia Dr. Vijay Nongpiur Dr. Arup Jyoti Baruah
		Emergency & its management	3 to 4	Dr. Suvamoy Chakraborty Dr. Abhijeet Bhatia Dr. Zareen Lynrah
7.	General Medicine	Medicine Critical Care Unit	5	Dr. Iadarilang Tiewsoh
		<u>Haemodialysis</u>	3	Faculty of General Medicine
	C 1.0	DOTS	3	Faculty of General Medicine
8.	General Surgery	Foundation Course in Minimally Invasive Surgery	4	Dr. Noor Topno Dr. Arup Baruah Dr. Dathiadiam Tongper
		Foundation Course on Upper GI Endoscopy	4	Dr. Noor Topno Dr. Dathiadiam Tongper
9.	Neurology	Clinical Localisation in Neurology	3	Dr. S R Sharma Dr. Baia Synmon Dr. Mahendra Thakre
10.	Neurosurgery	Traumatic Brain Injury and its Initial  Management	4	Dr. Tamajyoti Ghosh
11	Obs & Gynae	Contraception	2-4	Dr. Wansalan Karu Shullai
11.		Antenatal Care	2-4	Dr. Ananya Das
		Vaginal discharge	2-4	Dr. Ananya Das
		<u>Labour</u>	2-4	Dr. Nalini Sharma
		Basic Infertility Work up and Manage ment	5-6	Prof. (Dr) Manika Agarwal
		Obstetrics USG in first and third trimester	4-5	Dr. Sukalyan Halder
12	Ophthalmology	Optical Coherence Tomography (OCT)	2	Dr. Tanie Natung
		Ocular Biometry	2	Dr. Tanie Natung
		Refraction	2	Dr. Lanalyn Thangkhiew
		Automated Static Perimetry (Humphrey		
	Orthopaedics	<u>Visual Field Analysis</u> )	2	Dr. Benjamin Nongrum

				Dr. Tashi C Vhanalah
		Basic Neonatal Care & Lactation Support	3	Dr. Tashi G Khonglah Dr. Rosina Ksoo
14.	Pediatrics			
		Pediatric Nephrology	2	Dr. Himesh Barman
		Point of Care Quality Improvement (POCQI) in Child Health	3	Dr. Himesh Barman
		Neonatal Intensive Care	2	Dr. Rosina Ksoo
1.5	D1-1-4			Dr. Subhash Das
15.	Psychiatry	Substance Use Disorders	2	Dr. Arvind Nongpiur
		Consultation Liaison Psychiatry	2	Dr. Arvind Nongpiur Dr. Subhash Das
16.	Radiation Oncology	Radiation Oncology	2	Faculty of Radiation Oncology
				Dr. C. Daniala
17.	Radiology	<u>Ultrasonography</u>	5	Dr. Donboklang Lynser
				Dr. Gareth Yobel Lyngwa
				Dr. C Daniala
		Radiography	5	Dr. Donboklang Lynser
				Dr. Gareth Yobel Lyngwa
18.	Surgical Oncology	Primer in Surgical Oncology	2	Faculty of Surgical Oncology
19.	Transfusion Medicine	Immunohematology Laboratory	3	Dr. Kh Mentombi Devi
	& Blood Centre			
20.	Urology	<u>Hematuria</u>	2	Dr. S. L. Sailo
۷٠.		Renal Stone Disease	2	Dr. V. C. Wan

# <u>Topics for Elective (Block 1 (Pre-Clinical)</u>

# <u>No: 1</u>

Name of Block	Block 1 (Pre-Clinical)
Name of Elective	Introduction to histology Drastical and Clinical annuas sh
Location of the hospital	Introduction to histology: Practical and Clinical approach  Department of Anatomy
lab/ research facility	Department of Anatomy
Name of Internal	Faculty of Anatomy
Preceptors	
Name of External	NA
Preceptors	
Learning objectives of	To teach the students about the basic steps for preparing slides of
electives	biological specimens for histological examination
No. of students that	3
can be accommodated	
Prerequisites	Knowledge of human anatomy and their functions
List of activities of	Students will be introduced to:
student participation	Histology or microanatomy and its clinical application.
	2. Introduction to microscope
	3. Different steps involved in the tissue preservation,
	production of sections, staining and analysis of slides
	<ol> <li>Introduce to special staining (for cartilage, fat, nervous tissue)</li> </ol>
Learning resources	Learning under guidance of the faculty in-charge
	Handbooks will be provided for reference during/ at the end of the elective session.
Portfolio	Student will choose the tissue for special staining. Then student
	will collect the specimen and perform the necessary steps for
	preparing the histological slides of that. Finally, observe the slide
	under microscope.
Logbook	Complete with signature of faculty and should meet expectations.
Assessment	Formative assessment with certificate for eligibility to appear in
	final MBBS examination.
Comments	For early sensitisation of the students interested in
	histopathology.

#### No: 2

Name of Block	Block 1 (Pre-Clinical)
Name of Elective	Introduction to Medical genetics
Location of the hospital	Department of Anatomy
lab/ research facility	,
Name of Internal	Faculty of Anatomy
Preceptors	
Name of External	NA
Preceptors	
Learning objectives of electives	<ol> <li>Describe the inheritance patterns seen in families with heritable disease.</li> </ol>
	2. Describe the structure of human genome, the nature of genomic variation and the normal human karyotype.
	3. Demonstrate an understanding of the molecular mechanisms that are responsible for human genetic disease and laboratory techniques used for diagnosis.
	4. Demonstrate an understanding of the processes required to produce and stain chromosome preparations from a variety of tissues.
	5. Demonstrate an awareness of how numerical and structural chromosome abnormalities occur and the clinical syndromes which can result from these abnormalities.
	6. Demonstrate an understanding of how structurally rearranged chromosomes behave during meiotic cell division and how this behaviour can result in the production of gametes with unbalanced chromosome constitutions.
	7. Demonstrate an awareness of the significance of both inherited genetic abnormalities and acquired chromosome abnormalities in cancer.
	8. Demonstrate an awareness of challenges involved in prenatal diagnosis of chromosomal syndromes.
	9. Show awareness of common non-Mendelian disease.
	10. Understand the impact of pharmacogenetics.
	11. Demonstrate awareness of strategies for the treatment

	of genetic disease.
No. of students that can be accommodated	3
Prerequisites	Knowledge of human anatomy and their functions
List of activities of student participation	Students will be introduced to:
	1. Perform chromosome analysis.
	2. Draw pedigrees.
	3. Interpret pedigree information.
	4. Interpret basic abnormal cytogenetic results.
	5. Interpret basic abnormal molecular genetic results.
	6. Communicate genetic information to the lay person.
Learning resources	<ul> <li>Learning under guidance of the faculty in-charge</li> </ul>
	Handbooks will be provided for reference during/ at the end of the elective session.
Portfolio	Student will prepare a slide of chromosome and try to interpret that.
Logbook	Complete with signature of faculty and should meet expectations.
Assessment	Formative assessment with certificate for eligibility to appear in
Assessificit	final MBBS examination.
Comments	For early sensitisation of the students interested in
	histopathology.

#### <u>No:3</u>

Name of Block	Block 1 (Pre-Clinical)
Name of Elective	3D Virtual Dissection
Location of the hospital lab or research facility	Dept. of Anatomy, NEIGRIHMS
Name of Internal Preceptors	Anatomy Faculty
Name of External Preceptors	N.A
Learning objectives of	To impart 3D virtual dissection anatomy teaching:
elective	i) To recall and learn basic human anatomy
	ii) To understand complex anatomical structures which are difficult to comprehend
	iii) Strengthen the basic concepts of anatomy of the human body
	iv) Application of basic concepts to clinical anatomy
Number of students that can	3
be accommodated	
Prerequisites	Knowledge of basic human anatomy
List of activities of student	i) Student will be first demonstrated the use of the basic and advanced
participation	software of the 3D virtual dissector table for different regions of the
	human body
	ii) Student will use the 3D-VDT independently to understand or clear
	any doubts with relation to the spatial orientation, gross anatomy and
	relations of the region/organ/tissue
	iii) Knowledge will be applied to clinical anatomy via problem/case based learning
Learning resources	Guided learning from books, case based learning, small group
	discussion
Portfolio	Student has to note down his observations of a particular topic given by
	the teacher following 3D virtual dissection as part of his assignment
Logbook	Complete with signature of Faculty and should be graded meet expectations (M)
Assessment	Formative assessment (attendance, daily activities, logbook
	submission, presentation of work noted in portfolio) with certification
	of completion for eligibility to appear in final MBBS examination
Comments	To help the student in acquiring a better detailed understanding of the anatomy of the human body which is vital to become a good physician in the long run

# <u>No:4</u>

Name of Block	Block 1 (Pre-Clinical)
Name of Elective	Introduction to Research Methodology (Literature Search & Reference Management)
Location of the hospital lab/ research facility	Department of Anatomy
Name of Internal Preceptors	Faculty of Anatomy
Name of External Preceptors	NA
Learning objectives of electives	To sensitise/ introduce the students to basic research with special emphasis on: Online literature Search & Reference Management Software's (Zotero/ Mendeley)
No. of students that can be accommodated	3
Prerequisites	Knowledge of computer, Students having personal laptops, Interest in Medical research
List of activities of student participation	<ol> <li>Students will be introduced to basic research by:         <ol> <li>Framing a research question.</li> <li>Searching the relevant literature online in standard databases (PubMed)</li> <li>Brief introduction methodology &amp; data collection</li> <li>Managing the references online using Software's (Zotero/Mendeley)</li> </ol> </li> </ol>
Learning resources	<ul> <li>Learning under guidance of the faculty in-charge</li> <li>The students can select their topic of interest to start an individual project or can be a part of ongoing faculty projects.</li> <li>Handbooks will be provided for reference during/ at the end of the elective session.</li> </ul>
Portfolio	Student will frame the research question, choose the title of their individual project/ or learn the very same as a part of faculty research project. The student will create a profile in PubMed database, where the search history for literature can be saved, methodology & data collection can be noted down with subsequent installation and learning of the Software's for reference management (Zotero/ Mendeley). The details of the above mentioned steps will be noted as a part of assignment. Online link for the same will be provided wherever needed.
Logbook	Complete with signature of faculty and should meet expectations.
Assessment	Formative assessment with certificate for eligibility to appear in final MBBS examination.
Comments	For early sensitisation of the students interested in Medical Research

# **Department of Biochemistry**

#### Electives no. 1

Name of the Block	Block 1(laboratory services )
Name of the electives	Clinical chemistry -1
Location of the hospital lab or	Clinical chemistry lab, First floor, NEIGRIHMS
research facility	
Name of the internal	Dr. Alice A. Ruram
preceptor(s)	
Name of the external preceptor	NA
Learning objective of the electives	<ul> <li>CLSI Order of draw of sample collection</li> <li>Understanding the pre analytical ,analytical and post analytical variables which may affect the test value</li> <li>Instruments-Understanding principles of fully automated clinical chemistry analyzers , ISE Analyzers, HbA1c analyzers , Importance of internal &amp; external quality control</li> <li>Interpretation of test results, Recognizing the panic Value</li> </ul>
Number of students that can be accommodated	3
Prerequisites	Knowledge of universal precaution, Biomedical waste Management
List of activities of the student participation	Students will observe the phlebotomist collecting the blood samples according to CLSI guidelines and will work with residents in clinical chemistry lab and observe the Instrument set up for analysis, Sample/reagent /QC preparation, Operation of the instrument .Run the internal QC and evaluate acceptability, Construct the Levey Jenning's chart and understand the West Guard's rule, Interpretaion of HbA1c and other test results, Recognize the panic value
Learning resources	Handbook provided by the department
Portfolio	<ol> <li>Students have to calculate the normal lab mean and SD for few parameters</li> <li>Students have to construct and interpret the Levey Jenning's chart for few parameters</li> <li>Students have to note down 2 cases with panic values in clinical chemistry lab</li> </ol>
Log book	Complete with signature of faculty and should be graded meet expectations (M)
Assessment	Formative Attendance and case discussions and identifying laboratory errors Presentation in the department of the work noted in portfolio
Comments	Nil

#### Electives no. 2

Electives no. 2	T-1 -1 -10 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
Name of the Block	Block 1(laboratory services )
Name of the electives	Clinical chemistry -2
Location of the hospital lab or	Endocrine lab, First floor, NEIGRIHMS
research facility	
Name of the internal	Dr. Happy Chutia
preceptor(s)	
Name of the external preceptor	NA NA
Learning objective of the	<ul> <li>Instruments-Understanding principles of fully</li> </ul>
electives	automated Chemiluminescence and
	electrochemiluminescence system
	<ul> <li>Interpretation of test results, Recognizing the panic</li> </ul>
	Value
Number of students that can be	3
accommodated	
Prerequisites	Knowledge of universal precaution, Biomedical waste
	Management
List of activities of the student	Students will work with residents in endocrine lab and observe
participation	the Instrument set up for analysis, Sample/reagent /QC
por conputer on	preparation, Operation of the instrument .Run the internal QC
	and evaluate acceptability, Construct the Levey Jenning's chart
	and understand the West Guard's rule, Interpret the test results
	for various hormones ,Vitamin & tumor markers , Recognize the
	panic value
	parite variac
Learning resources	Handbook provided by the department
Portfolio	4. Students have to calculate the normal lab mean and SD
	for few parameters
	5. Students have to construct and interpret the Levey
	Jenning's chart for few parameters
	6. Students have to note down 2 cases with panic values in
	the Endocrine
Log book	Complete with signature of faculty and should be graded meet
LOS DOOK	expectations (M)
Accordment	Formative
Assessment	Attendance and case discussions and identifying laboratory
	, -
	errors  Presentation in the department of the work noted in portfolio
Comments	·
Comments	Nil

# **Elective module (Community Medicine)**

Name of block	Block 1 (Community Medicine)
Name of elective	Research Methodology
Location of health lab or research facility	Community/ Medical College
Name of internal preceptor	Dr. Shanthosh Priyan S
Name of external preceptor	Nil
Learning objectives	<ol> <li>To learn about various study designs and steps of conducting a research</li> <li>To learn about the level of evidences in bio-medical research</li> <li>To understand the steps of conducting systematic review and meta-analysis and reporting the findings</li> <li>To develop a concept note and proposal for the research</li> <li>To collect data as prescribed in the proposal, analyse the data and report</li> </ol>
Number of the students that can be accommodate in this elective	writing and dissemination of information  Two (2)
Prerequisites for elective	Basic course in epidemiology, Good clinical
List of activities of student participation	<ol> <li>Working collaboratively with the mentor in the preparation of the research proposal, data collection and analysis of results along with the documentation/report writing</li> <li>Seek help from the statistician for the statistical analysis</li> <li>Participation in the scientific and ethical committee meetings, as and when required</li> <li>Presentation of the report in a</li> </ol>

	conference or a meeting
	5. Dissemination of information to the
	community and also providing service to
	the community based on the
	implications of the research
Learning Resources	Leon Gordis, Modern epidemiology,
	Clinical Epidemiology: The Essentials
	(Fletcher), Research Methods in
	Community Medicine (Abramson),
	Statistical Analysis for Public
	Administration (Giventer)
Portfolio entries required	Concept note, master chart, statistical
	analysis output file
Log book entry required	Satisfactory completion of posting with
	a "meets expectation '(M)' grade"
Assessment	Attendance
	Log book entry
	Completion of manuscript and
	presentation in a conference/ meeting
Comments	Nil

Name of Block	Block 1 (Community Medicine)
Name of Elective	Outbreak Investigation
Location of hospital Lab or research	Medical College/ IDSP Office
facility	
Name of internal preceptor(s)	Dr. Star Pala
Name of external preceptor	Nil
Learning objectives of elective	1. To understand the ten steps involved in
	outbreak investigation
	2. To understand the flow of information
	from the peripheral level to the state level
	3. To work on an IDSP data and interpret the
	findings
Number of students that can be	One (1)
accommodated in this elective	
Prerequisites for elective	Knowledge of S, P and L forms
	Reporting system of IDSP
List of activities of student participation	1. Surveillance of any community outbreak
	2. Monitoring and Evaluation of IDSP forms
	from the respective districts
	3. Supporting the project staffs in the day-to-
	day activities
Learning Resources	1. Oxford Textbook of Public Health
	2. IDSP manual
Portfolio entries required	Daily log of patients seen and activities
	Participated signed by the Supervisor
Log book entry required	Satisfactory completion of posting with a
	"meets expectation '(M)' grade"
Assessment	1. Attendance & Log book entry
	2. Formative and summative assessment of
	the learning objectives

Name of Block	Block 1 (Community Medicine)
Name of elective	Health Education
Location of the hospital lab or research	Urban field practice area
facility	
Name of internal preceptor(s)	Dr. Star Pala
Name of external preceptor(s)	Nil
Learning objectives of elective	At the end of the module students should be able to:
	1. Demonstrate effective communication skills for
	health education for an individual and a group
	2. Determine the appropriate health
	communication method for individual, group
	and mass approach
	3. Prepare appropriate content of health education
	for different age-groups and disease conditions
	4. Identify appropriate audio-visual aids for
	individual and group health education
	5. Plan and conduct health education sessions for
	<ul><li>an individual and a group</li><li>6. Prepare health education material for mass</li></ul>
	media
Number of students that can be	One (1)
accommodated	
Pre-requisites	1. Knowledge of the population profile of the
1	community
	2. Knowledge of priority groups in the community
	that require health education, example, pregnant
	women, mothers/parents of under five children,
	people with communicable and non-
	communicable diseases
List of activities of student	1. Students will visit families in the field practice
participation	areas and determine their need for health
	education
	2. Students will visit health and wellness centres
	during clinic days/ village health nutrition days
	to observe the health education activities

	provided there
	3. Students will plan and conduct one individual
	and one group health education activity
	4. Students will prepare health education materials
	like banners, flyers etc and one for mass media
Learning resources	Materials from the department
Portfolio	Prepare health education plans which includes
	content of health education and appropriate audio-
	visual aids
Logbook	Complete with signature of faculty and graded
Assessment	Formative assessment- Preparation of health
	education materials along with its delivery
Comments	Nil

Name of Block	Block 1 (Community Medicine)
Name of Elective	School Health Programme
Location of hospital Lab or research facility	Government schools in Shillong
Name of internal preceptor(s)	Dr. Shanthosh Priyan S
Name of external preceptor if applicable	Nil
Learning objectives of elective	At the end of the module students should be
	able to:
	1. To conduct a health screening program
	2. To assess the health and nutritional
	status of school going children
	3. To detect the diseases/deficiencies in
	children
	4. To evaluate the programmatic
	functioning of RBSK
Number of students that can be	Two (2)
accommodated in this elective	
Prerequisites for elective	Clinical skills for health screening,
	immunization, nutrition and health
	counselling
List of activities of student participation	1. Setting up health screening camp in
	schools
	2. Logistic and material management
	3. Health screening
	4. Treatment and referral
	5. Nutrition and immunization counselling
Learning resources	Oxford Textbook of Public Health, Park's
	Textbook of Preventive and Social
	Medicine, GHAI Essential Pediatrics
Portfolio entries required	Demographic data of children screened,
	Assessment of health status, disease and
	immunization profile in children screened
Log book entry required	Satisfactory completion of posting by a
	preceptor with a "meets expectation 'M'
	grade"
Assessment	Attendance, Participation in screening

	activity, Presentation of outcome of health
	screening activity, Documentation of
	required portfolio and log book entries
Other comments	Writing of manuscript is encouraged for
	documentation and research purposes

Integrated Child Development Services (ICDS)   Location of hospital Lab or research facility   Anganwadis in catchment area of Urban Health Training Centre (UHTC), Nongmensong     Name of internal preceptor (s)   Dr. Shanthosh Priyan S   Dr. Evakerlang Smenficia Lynshing     Name of external preceptor if applicable   Nil     Learning objectives of elective   1. To understand the functioning of an Anganwadi     2. To understand the programmatic functioning of ICDS     3. To develop team works and leadership qualities     4. To monitor and evaluate a health programme     Number of students that can be accommodated in this elective     Prerequisites for elective   Two (2)     Charling and management qualities     1. Visiting Anganwadis     2. Evaluating components of ICDS     3. Supportive supervision of staff in anganwadi     4. Monitoring and evaluation of ICDS     programme     5. Evaluating Poshan Abhiyan     Learning resources   Park's textbook of Preventive and Social     Medicine, Ministry of Women and Child     Development (WCD) modules     Portfolio entries required   Documentation of functioning of all     components of ICDS, SWOT Analysis of ICDS     Porgramme     Log book entry required   Satisfactory completion of posting by a	Name of Block	Block 1 (Community Medicine)
Location of hospital Lab or research facility Realth Training Centre (UHTC), Nongmensong  Name of internal preceptor (s)  Dr. Shanthosh Priyan S Dr. Evakerlang Smenficia Lynshing  Name of external preceptor if applicable  Learning objectives of elective  I. To understand the functioning of an Anganwadi  2. To understand the programmatic functioning of ICDS  3. To develop team works and leadership qualities  4. To monitor and evaluate a health programme  Number of students that can be accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  List of activities of student participation  I. Visiting Anganwadis  2. Evaluating components of ICDS  3. Supportive supervision of staff in anganwadi  4. Monitoring and evaluation of ICDS programme  5. Evaluating Poshan Abhiyan  Learning resources  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme	Name of Elective	Integrated Child Development Services
Health Training Centre (UHTC), Nongmensong  Name of internal preceptor (s)  Dr. Shanthosh Priyan S Dr. Evakerlang Smenficia Lynshing  Name of external preceptor if applicable  Learning objectives of elective  1. To understand the functioning of an Anganwadi 2. To understand the programmatic functioning of ICDS 3. To develop team works and leadership qualities 4. To monitor and evaluate a health programme  Number of students that can be accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  List of activities of student participation  1. Visiting Anganwadis 2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		(ICDS)
Nongmensong  Name of internal preceptor (s)  Dr. Shanthosh Priyan S Dr. Evakerlang Smenficia Lynshing  Name of external preceptor if applicable  Nil  Learning objectives of elective  1. To understand the functioning of an Anganwadi 2. To understand the programmatic functioning of ICDS 3. To develop team works and leadership qualities 4. To monitor and evaluate a health programme  Number of students that can be accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  List of activities of student participation  1. Visiting Anganwadis 2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme	Location of hospital Lab or research facility	Anganwadis in catchment area of Urban
Name of internal preceptor (s)  Dr. Shanthosh Priyan S Dr. Evakerlang Smenficia Lynshing  Name of external preceptor if applicable  Learning objectives of elective  1. To understand the functioning of an Anganwadi 2. To understand the programmatic functioning of ICDS 3. To develop team works and leadership qualities 4. To monitor and evaluate a health programme  Number of students that can be accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  1. Visiting Anganwadis 2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		Health Training Centre (UHTC),
Name of external preceptor if applicable  Learning objectives of elective  1. To understand the functioning of an Anganwadi 2. To understand the programmatic functioning of ICDS 3. To develop team works and leadership qualities 4. To monitor and evaluate a health programme  Number of students that can be accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  1. Visiting Anganwadis 2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		Nongmensong
Name of external preceptor if applicable  Learning objectives of elective  1. To understand the functioning of an Anganwadi 2. To understand the programmatic functioning of ICDS 3. To develop team works and leadership qualities 4. To monitor and evaluate a health programme  Number of students that can be accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  1. Visiting Anganwadis 2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme	Name of internal preceptor (s)	Dr. Shanthosh Priyan S
Learning objectives of elective  1. To understand the functioning of an Anganwadi 2. To understand the programmatic functioning of ICDS 3. To develop team works and leadership qualities 4. To monitor and evaluate a health programme  Number of students that can be accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  List of activities of student participation  1. Visiting Anganwadis 2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		Dr. Evakerlang Smenficia Lynshing
Anganwadi  2. To understand the programmatic functioning of ICDS  3. To develop team works and leadership qualities  4. To monitor and evaluate a health programme  Number of students that can be accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  List of activities of student participation  1. Visiting Anganwadis  2. Evaluating components of ICDS  3. Supportive supervision of staff in anganwadi  4. Monitoring and evaluation of ICDS programme  5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme	Name of external preceptor if applicable	Nil
2. To understand the programmatic functioning of ICDS 3. To develop team works and leadership qualities 4. To monitor and evaluate a health programme  Number of students that can be accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  List of activities of student participation  1. Visiting Anganwadis 2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme	Learning objectives of elective	1. To understand the functioning of an
functioning of ICDS  3. To develop team works and leadership qualities  4. To monitor and evaluate a health programme  Number of students that can be accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  List of activities of student participation  1. Visiting Anganwadis  2. Evaluating components of ICDS  3. Supportive supervision of staff in anganwadi  4. Monitoring and evaluation of ICDS programme  5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		Anganwadi
3. To develop team works and leadership qualities 4. To monitor and evaluate a health programme  Number of students that can be accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  List of activities of student participation  1. Visiting Anganwadis 2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		2. To understand the programmatic
Qualities 4. To monitor and evaluate a health programme  Number of students that can be accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  List of activities of student participation  1. Visiting Anganwadis 2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		functioning of ICDS
A. To monitor and evaluate a health programme  Number of students that can be accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  List of activities of student participation  1. Visiting Anganwadis 2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		3. To develop team works and leadership
Number of students that can be accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  List of activities of student participation  List of activities of student participation  1. Visiting Anganwadis  2. Evaluating components of ICDS  3. Supportive supervision of staff in anganwadi  4. Monitoring and evaluation of ICDS programme  5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		qualities
Number of students that can be accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  List of activities of student participation  1. Visiting Anganwadis 2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		4. To monitor and evaluate a health
accommodated in this elective  Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  List of activities of student participation  1. Visiting Anganwadis 2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		programme
Prerequisites for elective  Knowledge on childhood malnutrition, leadership and management qualities  1. Visiting Anganwadis 2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme	Number of students that can be	Two (2)
List of activities of student participation  1. Visiting Anganwadis 2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme	accommodated in this elective	
List of activities of student participation  1. Visiting Anganwadis 2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme	Prerequisites for elective	Knowledge on childhood malnutrition,
2. Evaluating components of ICDS 3. Supportive supervision of staff in anganwadi 4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		leadership and management qualities
3. Supportive supervision of staff in anganwadi  4. Monitoring and evaluation of ICDS programme  5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme	List of activities of student participation	1. Visiting Anganwadis
anganwadi  4. Monitoring and evaluation of ICDS programme  5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		2. Evaluating components of ICDS
4. Monitoring and evaluation of ICDS programme 5. Evaluating Poshan Abhiyan  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		3. Supportive supervision of staff in
programme  5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		anganwadi
5. Evaluating Poshan Abhiyan  Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		4. Monitoring and evaluation of ICDS
Learning resources  Park's textbook of Preventive and Social Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		programme
Medicine, Ministry of Women and Child Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		5. Evaluating Poshan Abhiyan
Development (WCD) modules  Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme	Learning resources	Park's textbook of Preventive and Social
Portfolio entries required  Documentation of functioning of all components of ICDS, SWOT Analysis of ICDS Programme		Medicine, Ministry of Women and Child
components of ICDS, SWOT Analysis of ICDS Programme		Development (WCD) modules
ICDS Programme	Portfolio entries required	Documentation of functioning of all
		components of ICDS, SWOT Analysis of
Log book entry required Satisfactory completion of posting by a		ICDS Programme
	Log book entry required	Satisfactory completion of posting by a

	preceptor with a "meets expectation 'M'
	grade"
Assessment	Attendance, Participation in supportive
	supervision, Presentation of evaluation of
	ICDS Programme, Documentation of
	required portfolio and log book entries
Other comments	Writing of manuscript is encouraged for
	documentation and research purposes

Name of Elective  National Health Programme – National Tuberculosis Elimination Programme (NTEP)  DOTS Clinic, NEIGHRIHMS  Name of internal preceptor(s)  Faculty of Community Medicine  Nil  Learning objectives of elective  1. To understand the diagnostic algorithm for TB 2. To understand the management and treatment of TB patients 3. To learn on TB Preventive Therapy 4. To understand the programmatic functioning of NTEP  Number of students that can be accommodated in this elective  Prerequisites for elective  List of activities of student participation  Line listing of beneficiaries of NTEP programme in NEIGRIHMS  2. Functioning of NIKSHAY portal (crosscheck beneficiaries)  3. Functioning of DOTS Clinic 4. Treatment and referral system 5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a preceptor with a "meets expectation 'M'	Name of Block	Block 1 (Community Medicine)
Location of hospital Lab or research facility Name of internal preceptor(s)  Name of external preceptor if applicable  Learning objectives of elective  1. To understand the diagnostic algorithm for TB 2. To understand the management and treatment of TB patients 3. To learn on TB Preventive Therapy 4. To understand the programmatic functioning of NTEP  Number of students that can be accommodated in this elective  Prerequisites for elective  Communication skills, basic program knowledge  List of activities of student participation  1. Line listing of beneficiaries of NTEP programme in NEIGRIHMS 2. Functioning of NIKSHAY portal (crosscheck beneficiaries) 3. Functioning of DOTS Clinic 4. Treatment and referral system 5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a	Name of Elective	National Health Programme – National
Name of internal preceptor(s)   Faculty of Community Medicine		Tuberculosis Elimination Programme (NTEP)
Name of external preceptor if applicable  Learning objectives of elective  1. To understand the diagnostic algorithm for TB 2. To understand the management and treatment of TB patients 3. To learn on TB Preventive Therapy 4. To understand the programmatic functioning of NTEP  Number of students that can be accommodated in this elective  Prerequisites for elective  Communication skills, basic program knowledge  1. Line listing of beneficiaries of NTEP programme in NEIGRIHMS 2. Functioning of NIKSHAY portal (crosscheck beneficiaries) 3. Functioning of DOTS Clinic 4. Treatment and referral system 5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a	Location of hospital Lab or research facility	DOTS Clinic, NEIGHRIHMS
Learning objectives of elective  1. To understand the diagnostic algorithm for TB 2. To understand the management and treatment of TB patients 3. To learn on TB Preventive Therapy 4. To understand the programmatic functioning of NTEP  Number of students that can be accommodated in this elective  Prerequisites for elective  Communication skills, basic program knowledge  1. Line listing of beneficiaries of NTEP programme in NEIGRIHMS 2. Functioning of NIKSHAY portal (crosscheck beneficiaries) 3. Functioning of DOTS Clinic 4. Treatment and referral system 5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a	Name of internal preceptor(s)	Faculty of Community Medicine
2. To understand the management and treatment of TB patients 3. To learn on TB Preventive Therapy 4. To understand the programmatic functioning of NTEP  Number of students that can be accommodated in this elective  Prerequisites for elective  List of activities of student participation  1. Line listing of beneficiaries of NTEP programme in NEIGRIHMS 2. Functioning of NIKSHAY portal (crosscheck beneficiaries) 3. Functioning of DOTS Clinic 4. Treatment and referral system 5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a	Name of external preceptor if applicable	Nil
TB patients  3. To learn on TB Preventive Therapy  4. To understand the programmatic functioning of NTEP  Number of students that can be accommodated in this elective  Prerequisites for elective  List of activities of student participation  1. Line listing of beneficiaries of NTEP program knowledge  1. Line listing of beneficiaries of NTEP programme in NEIGRIHMS  2. Functioning of NIKSHAY portal (crosscheck beneficiaries)  3. Functioning of DOTS Clinic  4. Treatment and referral system  5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a	Learning objectives of elective	1. To understand the diagnostic algorithm for TB
3. To learn on TB Preventive Therapy 4. To understand the programmatic functioning of NTEP  Number of students that can be accommodated in this elective  Prerequisites for elective  List of activities of student participation  List of activities of student participation  1. Line listing of beneficiaries of NTEP programme in NEIGRIHMS  2. Functioning of NIKSHAY portal (crosscheck beneficiaries)  3. Functioning of DOTS Clinic  4. Treatment and referral system  5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a		2. To understand the management and treatment of
4. To understand the programmatic functioning of NTEP  Number of students that can be accommodated in this elective  Prerequisites for elective  List of activities of student participation  List of activities of student participation  List of activities of student participation  1. Line listing of beneficiaries of NTEP programme in NEIGRIHMS  2. Functioning of NIKSHAY portal (crosscheck beneficiaries)  3. Functioning of DOTS Clinic  4. Treatment and referral system  5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a		TB patients
NTEP  Number of students that can be accommodated in this elective  Prerequisites for elective  List of activities of student participation  1. Line listing of beneficiaries of NTEP programme in NEIGRIHMS  2. Functioning of NIKSHAY portal (crosscheck beneficiaries)  3. Functioning of DOTS Clinic  4. Treatment and referral system  5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a		3. To learn on TB Preventive Therapy
Number of students that can be accommodated in this elective  Prerequisites for elective  Communication skills, basic program knowledge  1. Line listing of beneficiaries of NTEP programme in NEIGRIHMS  2. Functioning of NIKSHAY portal (crosscheck beneficiaries)  3. Functioning of DOTS Clinic  4. Treatment and referral system  5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a		4. To understand the programmatic functioning of
accommodated in this elective  Prerequisites for elective  Communication skills, basic program knowledge  1. Line listing of beneficiaries of NTEP programme in NEIGRIHMS  2. Functioning of NIKSHAY portal (crosscheck beneficiaries)  3. Functioning of DOTS Clinic  4. Treatment and referral system  5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a		NTEP
Prerequisites for elective  List of activities of student participation  1. Line listing of beneficiaries of NTEP programme in NEIGRIHMS  2. Functioning of NIKSHAY portal (crosscheck beneficiaries)  3. Functioning of DOTS Clinic  4. Treatment and referral system  5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a	Number of students that can be	2 (Two)
List of activities of student participation  1. Line listing of beneficiaries of NTEP programme in NEIGRIHMS  2. Functioning of NIKSHAY portal (crosscheck beneficiaries)  3. Functioning of DOTS Clinic  4. Treatment and referral system  5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a	accommodated in this elective	
programme in NEIGRIHMS  2. Functioning of NIKSHAY portal (crosscheck beneficiaries)  3. Functioning of DOTS Clinic  4. Treatment and referral system  5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a	Prerequisites for elective	Communication skills, basic program knowledge
2. Functioning of NIKSHAY portal (crosscheck beneficiaries) 3. Functioning of DOTS Clinic 4. Treatment and referral system 5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a	List of activities of student participation	Line listing of beneficiaries of NTEP
beneficiaries)  3. Functioning of DOTS Clinic  4. Treatment and referral system  5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a		programme in NEIGRIHMS
3. Functioning of DOTS Clinic 4. Treatment and referral system 5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a		2. Functioning of NIKSHAY portal (crosscheck
4. Treatment and referral system 5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a		beneficiaries)
5. Treatment/follow-up status of beneficiaries in NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a		3. Functioning of DOTS Clinic
NEIGRIHMS  Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a		4. Treatment and referral system
Learning resources  NTEP Manual, India TB Report 2022, Central TB Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a		5. Treatment/follow-up status of beneficiaries in
Division IEC Material, Park's Textbook of Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a		NEIGRIHMS
Preventive and Social Medicine, Oxford Textbook of Public Health  Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a	Learning resources	NTEP Manual, India TB Report 2022, Central TB
Portfolio entries required  Sociodemographic data of NTEP beneficiaries, Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a		Division IEC Material, Park's Textbook of
Portfolio entries required  Sociodemographic data of NTEP beneficiaries,  Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required  Satisfactory completion of posting by a		Preventive and Social Medicine, Oxford Textbook
Assessment of treatment profile and follow-up status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required Satisfactory completion of posting by a		of Public Health
status in NTEP patients, SWOT Analysis of functioning of NTEP in NEIGRIHMS, Recommendations for improvement  Log book entry required Satisfactory completion of posting by a	Portfolio entries required	Sociodemographic data of NTEP beneficiaries,
functioning of NTEP in NEIGRIHMS, Recommendations for improvement Log book entry required Satisfactory completion of posting by a		Assessment of treatment profile and follow-up
Recommendations for improvement  Log book entry required Satisfactory completion of posting by a		status in NTEP patients, SWOT Analysis of
Log book entry required Satisfactory completion of posting by a		functioning of NTEP in NEIGRIHMS,
		Recommendations for improvement
preceptor with a "meets expectation 'M'	Log book entry required	Satisfactory completion of posting by a
ı		preceptor with a "meets expectation 'M'

	grade"
Assessment	Attendance, Participation in activities in DOTS
	Clinic, Documentation of required portfolio and log
	book entries
Other comments	Writing of manuscript is encouraged for
	documentation and research purposes

# **Elective Modules in Forensic Medicine and Toxicology**

Name of block	Block 1 (Research)
Name of elective	Virtual Autopsy
Duration	2 weeks
Location of the hospital lab	Department of Forensic Medicine and Toxicology,
or research facility	NEIGRIHMS
Title of research project	Virtual autopsy vs Conventional Autopsy: A comparative
(Ongoing project)	cross-sectional study conducted at a tertiary care hospital
	of Meghalaya
Name of internal preceptor(s)	Faculty, Department of Forensic Medicine and Toxicology
Name of external preceptor(s)	NA
Learning objectives of	1. To collect data as prescribed in the protocol
elective/ objective of research	2. To document data in the electronic case record correctly
project	3. To demonstrate the use of statistical software to do basic
	research calculations
	4. To write an abstract based on the collated data
	5. To present abstract to a group of peers and supervisors
Number of students that can	2
be accommodated	
Prerequisites	Knowledge of conventional medico-legal autopsy and
	respect for the cadaver
List of activities of student	1. Work with supervisor in making observations, collect
participation	data and document as per protocol
	2. Work with statistician to provide a statistical analysis of
	the data
	3. Participate in research meetings of the department,
	internal and external meetings
	4. Write abstract of work done
	5. Present abstract in an internal meeting and if possible at
	an external meeting as a poster or oral presentation

Learning resources	Thali MJ: The Virtopsy Approach Handouts provided by the department
Portfolio	Master chart/Data sheet (MS Excel)
	Statistical work sheet Abstract created
Logbook	Complete with signature of faculty and should be graded
	meet expectations.
Assessment	Formative
	Attendance and viva voce  Presentation in the department of work noted in portfolio
Comments	The student will be introduced to the basics of scientific
	writing

Name of block	Block 1 (Laboratory Experience)
Name of elective	Forensic Analytical Toxicology
Duration	2 weeks
Location of the hospital lab	Department of Forensic Medicine and Toxicology,
or research facility	NEIGRIHMS
Name of internal preceptor(s)	Faculty, Department of Forensic Medicine and Toxicology
Name of external preceptor(s)	NA
Learning objectives of	To enumerate indications for common screening
elective/ objective of research	tests for poisons
project	2. To enumerate the testing protocol for commonly
	performed toxicological tests
	3. To demonstrate the correct method to perform
	commonly available spot tests for poisons in a
	controlled environment
	4. To discuss applications of TLC and GC-MS in
	forensic analytical toxicology
Number of students that can	2
be accommodated	
Prerequisites	Knowledge of universal precautions in the laboratory
List of activities of student	1. Work daily with a supervisor in observing,
participation	assisting and performing spot tests
	2. Participate in departmental education activities
	3. Present at least two tests done by student as a case
	work up
Learning resources	Handbook of Forensic Analytical Toxicology
	Handouts provided by the department
Portfolio	Documentation of worked up cases
	Documentation of presentation done
Logbook	Complete with signature of faculty and should be graded
	meet expectations.

Assessment	Attendance
	Day-to-day participation in departmental activity
	Performance of assigned tasks
	Presentation of worked up case in department
Comments	The student will have hands on experience in conducting
	and performing common screening tests for poisons

# Electives of Department of Microbiology

Name of Block	Block – 1 (LABORATORY SERVICES)
Name of Elective	Clinical Microbiology
Location of hospital Lab. or research facility	Department of Microbiology, NEIGRIHMS
Name of internal preceptor(s)	<ol> <li>Dr. A.B. Khyriem, Professor &amp; HOD</li> <li>Dr. W.V. Lyngdoh, Professor</li> <li>Dr. C.J. Lyngdoh, Additional Professor</li> </ol>
Name of external preceptor	NA
Learning objectives of elective	<ol> <li>To enumerate the samples received in Microbiology laboratory.</li> <li>To discuss the role of microbial investigations in diagnosis of infectious diseases.</li> <li>To interpret the microbiological test results.</li> </ol>
Number of students that can be accommodated in this elective	3
Pre-requisites for elective	Knowledge in Universal precaution and Good laboratory practices.
List of activities of student participation	<ol> <li>Participate in laboratory activities including sample processing and reporting.</li> <li>Perform Gram stain, AFB staining and routine stool microscopy.</li> <li>Interpret the antimicrobial susceptibility testing.</li> </ol>
Learning resources	Handbook from the Department.
Portfolio entries required	<ul><li>Daily work book entries</li><li>Staining procedures done</li></ul>
Log book entry	Satisfactory completion of posting with signature of faculty
Assessment	<ul> <li>Attendance</li> <li>Formative</li> <li>Successful completion of posting as certified in log book with a "meets expectation" 'M' grade</li> </ul>
Comments	

#### **Department of Pathology**

Name of block	Block 1(Research related)
Name of elective	Clinical Hematology
Location of the hospital lab	Pathology Department, NEIGRIHMS
or research facility	
Title of research project	Analysis of Total leucocyte count (TLC) in patients of
	Chronic kidney Disease on Hemodialysis
Name of internal	Faculty of Department of Pathology
preceptor(s)	
Name of external	NA
preceptor(s)	
Learning objectives of	Comparison of total leucocyte count and differential
elective/ objective of	count between diagnosed cases of CKD and normal
research project	controls
Number of students that some	1
Number of students that can be accommodated	
	To have a knowledge of CPC parameters
Prerequisites	To have a knowledge of CBC parameters.  To demonstrate knowledge of increased and decreased
	counts in all the cell lines.
Sample collection- All	Causes of leucopenia.
patients on dialysis/	Effect of Chronic Kidney disease (CKD) on hematological
diagnosed cases of CKD	parameters
	Record book of patient details and hematological reports.
List of activities of student	Student will work along with hematology residents and
participation	technicians.
	Independently perform Leishman stain and perform total
	leucocyte count and differential count.
	Interpretation of CBC reports.
Learning resources	SOP provided by the department
Portfolio	Maintain Master chart/Data sheet
Logbook	Complete with signature of faculty and should be graded
	meet expectations.
Research project	Complete the project within the allotted time
Assessment	Formative
	Attendance and viva voce
	Presentation in the department of work noted in portfolio
Comments	Manuscript writing and publication will be encouraged

Name of elective  Location of the hospital lab or research facility  Title of research project  Name of internal  Clinical Hematology  Pathology Department, NEIGRIHMS  Clinicopathological profile of anemia in geriatric population in a tertiary care institute  Faculty of Department of Pathology
or research facility  Title of research project  Clinicopathological profile of anemia in geriatric population in a tertiary care institute
Title of research project  Clinicopathological profile of anemia in geriatric population in a tertiary care institute
population in a tertiary care institute
Name of internal Faculty of Department of Pathology
preceptor(s)
Name of external NA
preceptor(s)
Learning objectives of Classify the morphological types of anemia
elective/ objective of Classify the severity of anemia
research project Perform data collection and interpretation
Analyse clinico-pathological profile of anemia in geriatric
population
Number of students that can 1
be accommodated
Prerequisites Knowledge of the age cut off for geriatric population
Knowledge of RBC indices
Knowledge of morphological classification of anemia
Knowledge of the grades of anemia
List of activities of student Histogram interpretation
participation Independently perform Leishman stain
Peripheral blood smear interpretation
Interpretation of CBC reports
Record patient details and corresponding clinical and
hematological reports
Learning resources SOP provided by the department
Portfolio Maintain a master chart / data sheet
Logbook Complete with signature of faculty and should be graded
meet expectations.
Research project Complete the project within the allotted time.
Assessment Formative
Attendance and viva voce
Presentation in the department of work noted in portfolio
Comments Manuscript writing and publication will be encouraged.

Name of block	Block 1 (Research related)
Name of elective	Clinical Hematology
Location of the hospital lab or	Pathology Department, NEIGRIHMS
research facility	
Title of research project	Hematological parameters in diagnosed cases of Type II
	Diabetes
Name of internal preceptor(s)	Faculty of Department of Pathology
Name of external preceptor(s)	NA
Learning objectives of	Compare the hematological parameters between
elective/ objective of research	patients of Type II Diabetes and controls- Hb, TLC, DLC,
project	Platelet count and RDW
	Perform data collection and interpretation
Number of students that can	1
be accommodated	
Prerequisites	Knowledge of normal and abnormal haematological
	parameters and their clinical significance
	Knowledge of etio-pathogenesis of Type II DM and
	haematological changes that can occur
List of activities of student	Independently perform Leishman stain and perform TLC
participation	, DLC and platelet count.
	Interpretation of CBC reports
	Record patient details and corresponding clinical and
	hematological reports
Learning resources	SOP provided by the department
Portfolio	Maintain Master chart/Data sheet
Logbook	Complete with signature of faculty and should be graded
	meet expectations.
Research project	Complete the project within the allotted time.
Assessment	Formative
	Attendance and viva voce
	Presentation in the department of work noted in
	portfolio
Comments	Manuscript writing and publication will be encouraged

Name of block	Block 1(Research related)
Name of elective	Clinical hematology
Location of the hospital lab or research facility	Pathology Department, NEIGRIHMS
Title of research project	Clinicopathological profile of eosinophilia in a tertiary care centre
Name of internal preceptor(s)	Faculty of Department of Pathology
Name of external preceptor(s)	NA
Learning objectives of elective/ objective of research project	Grading of eosinophilia  To study the clinicopathological profile of patients with eosinophilia
Number of students that can be accommodated	1
Prerequisites	To have a knowledge of CBC parameters Causes of eosinophilia Calculation of Absolute Eosinophilic Count
List of activities of student participation	Student will work along with hematology residents and technicians. Independently perform Leishman stain and perform total leucocyte count, differential count and Absolute eosinophil count. Interpretation of CBC reports.
Learning resources	Handbook provided by the department
Portfolio	Maintain Master chart/Data sheet
Logbook	Complete with signature of faculty and should be graded meet expectations.
Research project	Complete the project within the allotted time.
Assessment	Formative Attendance and viva voce Presentation in the department of work noted in portfolio
Comments	Manuscript writing and publication will be encouraged

AL CLI I	DI 14/D 1 1 1 1
Name of block	Block 1 (Research related)
Name of elective	Clinical hematology
Location of the hospital lab or	Pathology department, NEIGRIHMS
research facility	
Title of research project	Platelet counts in patients with Iron deficiency
	anemia (IDA)
Name of internal preceptor(s)	Faculty of Department of Pathology
Name of external preceptor(s)	NA
Learning objectives of elective/	Correlation of platelet count with Hb value in cases
objective of research project	of IDA
Number of students that can be	1
accommodated	
Prerequisites	To have a knowledge of CBC parameters( Hb counts,
	RBC indices and platelet counts)
	To demonstrate knowledge of calculation of platelet
	count
	Causes of thrombocytosis and thrombocytopenia
	Mechanism of thrombocytosis in IDA
	Record book of patient details and hematological
	reports.
List of activities of student	Student will work along with hematology residents
participation	and technicians.
	Independently perform Leishman stain and perform
	platelet count.
	Interpretation of CBC reports and RBC indices.
Learning resources	Handbook provided by the department
Portfolio	
Logbook	Complete with signature of faculty and should be
	graded meet expectations.
Research project	Complete the project within the allotted time.
Assessment	Formative
	Attendance and viva voce
	Presentation in the department of work noted in
	portfolio
Comments	Manuscript writing and publication will be
	encouraged

#### **Electives**

Name of Block	Block 1
Name of Elective	Dermatopathology
Location of hospital Lab or research facility	Pathology Department, NEIGRIHMS
Name of internal preceptor(s)	Faculty of Department of Pathology
Name of external preceptor(s)	NA
Learning objectives of elective	<ul> <li>To become proficient in the gross examination, description and processing of cutaneous specimens</li> <li>To be able to recognize and discuss a wide variety of inflammatory and neoplastic conditions</li> <li>To be conversant in the special stains and ancillary tests used in the daily practice of dermatopathology including routine histochemical stains, immunohistochemical stains and Immunofluorescence</li> </ul>
Number of students that can be accommodate	2
Prerequisites	Knowledge of universal precautions Knowledge of common skin conditions
List of activities of student	The students will
participation	<ul> <li>Work closely with the pathology residents and faculty during sign-out</li> <li>Attend weekly consensus conferences and slide seminars</li> <li>Perform tissue processing under supervision</li> <li>Perform the routine histochemical stain, one special stain and immunohistochemistry procedure</li> </ul>
Learning resources	<ul> <li>Introductory lectures on dermatopathology by residents and faculty</li> <li>Lever's Histopathology of the Skin</li> <li>Weedon's Skin Pathology</li> </ul>
Portfolio	<ul> <li>Student has to write down observations of all types of skin samples processed in histopathology laboratory</li> <li>Student will present one case each of inflammatory and neoplastic skin conditions at the end of elective</li> </ul>
Logbook	Complete with signature of faculty and should be graded meet expectations (M)
Assessment	Formative Attendance and viva voce Presentation in the department of work noted in portfolio
Comments	Research opportunities will be provided to interested students

#### **Electives**

Name of Block	Block 1 (Laboratory services)
Name of Elective	Cytopathology
Location of hospital Lab or research facility	Pathology Department, NEIGRIHMS
Name of internal preceptor(s)	Pathology Faculty
Name of external preceptor(s)	NA
Learning objectives of elective	To enumerate common samples received in Cytopathology laboratory To demonstrate understanding of the clinical significance of the tests To demonstrate knowledge of the pre-analytical, analytical and post- analytical errors which may arise
Number of students that can be accommodate	4
Prerequisites	Necessary immunization, knowledge of universal precautions
List of activities of student participation	Student will work along with the Resident posted in Cytopathology and observe, assist where necessary in FNAC room Perform 2 staining procedures for fluid cytology
Learning resources	Handbook provided from the department
Portfolio	Student has to note down 2 cases observed in FNAC and follow up the case till reporting Student has to write down observations of all types of samples processed in cytopathology
Logbook	Complete with signature of faculty and should be graded meet expectations (M)
Assessment	Formative Attendance and viva voce Presentation in the department of work noted in portfolio
Comments	Research opportunity will be provided to interested students

#### **Electives**

Name of Block	Block 1 (Laboratory services)
Name of Elective	Clinical Pathology (Analysis of urine, body fluids, semen, CSF)
Location of hospital Lab or research facility	Pathology Department, NEIGRIHMS
Name of internal preceptor(s)	Faculty of Department of Pathology
Name of external preceptor(s)	NA
Learning objectives of elective	To list different types of specimens & samples in clinical Pathology laboratory  To define & comprehend the importance of each tests in relation to the disease process  To demonstrate knowledge of the pre-analytical, analytical and post-analytical errors which may arise & their relevance in interpretation of the tests
Number of students that can be accommodate	4
Prerequisites	Necessary immunization, knowledge of universal precautions and biosafety procedures.
List of activities of student participation	Student will work along with the Resident posted in Clinical pathology and observe the technical aspects, assist where necessary in the laboratory
Learning resources	Handbook and special operating procedures provided from the department
Portfolio	Student has to note down 3 cases each with different scenarios observed in clinical pathology (urine, body fluid analysis, semen analysis, CSF analysis and follow up the case till reporting.  Student has to write down observations of all types of samples processed in clinical pathology
Logbook	Complete with signature of faculty and should be graded to meet expectations (M)
Assessment	Formative Attendance and viva voce Presentation in the department of work noted in portfolio
Comments	Research opportunities will be provided to interested students

Name of Block	Block 1 (laboratory services)
Name of Elective	Cancer screening using pap smear
Location of hospital Lab or research facility	Obs & Gynea and Pathology Department, NEIGRIHMS
Name of internal preceptor(s)	Faculty of Department of Pathology
Name of external preceptor(s)	NA
Learning objectives of elective	To collect paired samples for screening from Obs & Gynec along with the resident in Obs & Gynec for conventional and liquipap smears To demonstrate understanding of conventional vs liquipap smears To demonstrate knowledge of staining with PAP stain and Bethesda classification of the gynec pap smears
Number of students that can be accommodate	4
Prerequisites	Completed postings in Obstetrics & Gyneacology
List of activities of student	Student will work along with the Resident posted in Obs and Gynea and
participation	Cytopathology and observe, assist where necessary Perform staining procedures for the conventional smears taken by them and observe the liquid-pap process.
Learning resources	Handbook provided from the department
Portfolio	Student has to note down the cases done by them and follow up the case till reporting  Student has to write down observations of all the samples collected by them and processed in cytopathology. Make a comparison report between the conventional and liquid-pap smears.
Logbook	Complete with signature of faculty and should be graded meet expectations (M)
Assessment	Formative Attendance and viva voce Presentation in the department of work noted in portfolio
Comments	Research opportunities will be provided to interested students

# Electives

Name of block	BLOCK LOCK
Name of elective	BLOCK I (Lab services)
	Role of anticoagulants in hematology and related lab services
Location of hospital lab or research facility	Hematology and clinical pathology lab and collection centre
Nme of internal perception (s)	Pathology faculty
Name of external preceptor(s)	NA NA
Learning objectives of elective	<ol> <li>Collect sample for hematology investigation from OPD patients</li> <li>To demonstrate understanding of colour coding of vials / vacutainers</li> <li>To demonstrate knowledge of why a particular anticoagulant or absence of it is suitable for particular test.</li> <li>Describe mode of action of various anticoagulant</li> <li>Pre-analytical, Analytical and post analytical variables in sample collection</li> </ol>
Number of students that can be accommodate	5
Prerequisites	Completed 1st professional studies joined initial postings in clinical departments
List of activity of student participation	Students will work with the phlebotomist at collection centre to notice the triage of specimen into various anticoagulant tubes.
Learning resources	Handbook provided from the department
Portfolio	Students will write down and describe the learning
Logbook	Complete with signature of faculty and should be
Assessment	Attendance and via voce presentation in the department and work noted in portfolio
Comments	Hands on experience shall be provided in the collection centre

Pharmacology: Phramacovigilance

**Elective BLOCK 1 (Pharmacology)** 

Name of the block	Block I (Pharmacology)
Name of elective	Pharmacovigilance
Location of the hospital lab or	Active surveillance of adverse drug reactions (ADRs) in the
research facility	department of Medicine.
100000000000000000000000000000000000000	Filling up of ADR reporting forms and reporting to
	NEIGHRIMS ADR monitoring centre (AMC).
	Casualty, severity and preventability assessment of reported
	individual ADRs.
Name of internal preceptor (s)	Department of Pharmacology
Name of external preceptor (s)	NA
Learning objectives of elective/	To learn all the aspects of Pharmacovigilance.
objective of research project	To learn and practice the identification of ADRs in practical
objective of research project	clinical setup.
	To learn filling up of standard ADR reporting forms and
	process of reporting.
	To learn about analyzing the ADRs in terms of casualty,
	severity and preventability.
	Ultimately to gain knowledge on the safe use of drugs, patient
	safety and ultimately safeguarding public health.
Number of students that can be	3 students
accommodated	5 students
Prerequisites	Knowledge of different terminologies of Phar, acology.
Trerequisites	Knowledge of pharmacodynamics and Pharmacokinetics.
	Knowledge of rational use of drugs and safety issues.
	Knowledge of adverse effects, ADRs, side effects, adverse
	events and toxic effects of drugs.
	Knowledge of pharmacovigilance and ADR reporting.
List of activities of students	Active surveillance of ADRs in the medicine ward.
participation	Selection of important ADRs and gathering of information on
participation	the given ADRs.
	Recording of ADRs in standard ADR forms.
	Analysis of ADRs in terms of Casualty, severity and
	preventability.
	Reporting of ADRs to the ADR reporting centre
Learning resources	SOP provided by the department
Portfolio	Maintain a master chart/ data sheet
Logbook	Complete with signature of faculty and will be graded meet
Logook	expectations
Research project	Complete the project within the allotted time
Assessment	Formative.
Assessment	Attendance and viva voce.
Comments	Presentation in the department of work noted in portfolio
Comments	Manuscript writing and publication will be encouraged

Name of the block	Block 1 (Pharmacology)
Name of the Elective	Point Prevalence Survey of Antibiotics
Location of the hospital lab or research facility	Conduct a point prevalence survey of antibiotics in male medicine ward, female medicine ward, male surgery ward and female surgery ward.
	Collection of data from inpatient records.
	Analyzing of surveyed data, including identifying patterns, trends, and any notable findings related to antibiotic usage.
Name of Internal preceptor	Department of Pharmacology
Name of external preceptor	NA
Learning Objectives	To learn all aspects of Point Prevalence     Survey
	2) To provide information on antibiotic usage and its impact on public health.
	3) Describe the process of conducting a point prevalence survey, including:
	<ul> <li>a) Selection of the population and sample size</li> <li>b) Designing survey forms to collect necessary data</li> <li>c) Collecting data from the sample population</li> <li>d) Duration and dosages of antibiotic usage</li> </ul>
	Ultimately the knowledge on the consequences of inappropriate antibiotic usage and how surveys like these can contribute to improving antibiotic stewardship and reducing antibiotic resistance.
Number of students that can be accommodated	3 students
Prerequisites	Knowledge of different terminologies of Pharmacology Knowledge of Pharmacokinetics and Pharmacodynamics Knowledge on the different classes of antibiotics Knowledge on the rational use of antibiotics and safety issues
List of activities of students participation	Conducting a point prevalence survey of antibiotics in male medicine ward, female medicine ward, male Surgery ward and female surgery ward.
	Collection of data from inpatient records.  Compilation and data entry.
	Analyzing of surveyed data, including identifying patterns, trends, and any notable findings related to antibiotic usage using MS Excel.

	Depiction of Analyzed data in the form of frequencies, percentages, diagrams
Learning resources	SOP provided by department
Portfolio	Maintain a master chart/data sheet
Logbook	Complete with signature of faculty and will be graded meet expectations
Research project	Complete the project within the allotted time
Assessment	Formative Attendance and viva voce Presentation in the department of work noted in portfolio
Comments	Manuscript writing and publication will be encouraged.

### Department of Physiology, NEIGRIHMS

Name of Block	Block I
Name of Elective	Study of Autonomic Function Tests
	(Cardiovascular and Vasomotor)
Location of hospital lab or research facility	Research laboratory, Department of Physiology, NEIGRIHMS
Name of internal preceptor(s)	Dr. Rituparna Barooah Professor and HOD
	Dr. Shakthinag S., Senior Resident
	Dr. Zakiyyah Tasneem ,Senior Resident
Name of external preceptor (if any)	Dr. Ram Sharma
	Dr. Manish Kapoor
	Dr. Monaliza Lyngdoh
Learning objectives of the elective	To comprehend Autonomic Homeostasis
	2. To be able to perform the reactivity tests of
	cardiac and vasomotor autonomic Function
	3. To be able to interpret the findings
Number of students that can be accommodated in this elective	4 (four)
Prerequisites for the elective	1. Physiology of Autonomic nervous system
	2. Physiology of Regulation of Heart Rate,
	Blood pressure and Respiration,
	3. Effect of exercise and posture on heart rate,
	respiration and Blood Pressure
	4. Fundamental knowledge of ECG
Learning resources for students	1. Module on Autonomic function to be obtained
	from the department of Physiology
	2. Practical Physiology books: GK Pal
List of activities in which the student will	1. Perform the specified AF tests
participate	2. Interpret & assess the results
	3. Recruit relevant pathological patients from
	departments of neurology, Cardiology and
	Medicine.
	4. Assist in the current projects
Portfolio entries required	Yes,
	1.Photographs and
	2.Master Charts
Log book entry required	Yes.
	<ol> <li>Record of daily activities &amp;</li> <li>Reflection.</li> </ol>
Assessment	OSPE, one minute preceptor, demonstration and
ADDOUGHOIT	viva-voce.
Other comments	Encouraged to do a small project and publish
	scientific report/poster/assist in the current project
	in the department.

Name of Block	Block I
Name of Elective	Study of physiological effects of YOGA and
	MEDITATION in Health & Disease.
Location of hospital lab or research facility	Yoga Lab, Dept. of Physiology, NEIGRIHMS
N. C.	
Name of internal preceptor(s)	Dr. Rituparna Barooah Dr. Shakthinag S
	Dr. Zaakiya Tasneem
Name of external preceptor (if any)	Faculty of Medicine, O&G
Learning objectives of the elective	To study the effect of yoga in HYPERTENSION,
	PCOS, DM
Number of students that can be accommodated in	4
this elective	
Prerequisites for the elective	Elementary knowledge of Asana & Pranayamas.
Trerequisites for the elective	Elementary knowledge of Assaila & Frankyamas.
I soming resources for students	Will be apprided when engelled
Learning resources for students	Will be provided when enrolled
List of activities in which the student will participate	Posture correction. Explanation of anatomy &
Portfolio entries required	physiology ,record keeping  Yes. Photographs
Tortiono cintres required	res. I notographs
Log book entry required	Yes. Record of daily activity performed
	, , , , , , , , , , , , , , , , , , ,
Assessment	Yes. Demonstration, viva voce
Other comments	Public awareness, encouraged to undergo
	certificate training

Name of Block	Block I
Name of Elective	Study of ECG in health and in Cardiac Dysfunction
Location of hospital lab or research facility	Research lab, Physiology, Cardiology
Name of internal preceptor(s)	Dr. Rituparna Barooah ,
	Dr. Shakthinag S Dr Zakiyya Tasneem
Name of external preceptor (if any)	Dr. Amit Malviya
	Dr. Manish Kapoor
	Dr. Monaliza Lyngdoh
Learning objectives of the elective	To be able to read normal & abnormal ECG
Number of students that can be accommodated in	4
this elective	
Prerequisites for the elective	Physiology of ECG
	, ,
Learning resources for students	ECG module
List of activities in which the student will	1.Record ECG
participate	2. Interpret findings,
	3.Recruit subjects
Portfolio entries required	Yes. Photographs while performing ecg,
	certification
Log book entry required	Yes. Record of daily activities
Assessment	OSPE,DOPS
	Viva
Other comments	

Name of Block	Block I
Name of Elective	Study of perimetry & visual field in health & glaucoma
Location of hospital lab or research facility	Human & Experiment lab, Dept. of Physiology
Name of internal preceptor(s)	Dr. John A. Lyngdoh , Dr. Rituparna Barooah, Dr Shakthinag S, Dr. Zakiyya
Name of external preceptor (if any)	Dr. Tannie Natung Dr. Benjamin
Learning objectives of the elective	1.To map the visual field 2.To delineate blind spot
Number of students that can be accommodated in this elective	3
Prerequisites for the elective	Physiology & vision & ocular movements
Learning resources for students	Module to be provided by the faculty in charge
List of activities in which the student will participate	1. To do the test 2. To recruit subjects of glaucoma 3. Maintain Records
Portfolio entries required	Yes. Photographs Master chart
Log book entry required	Yes Record of each day activity
Assessment	OSPE Viva Demonstration
Other comments	Publication is encouraged

Name of Block	Block I
Name of Elective	Study of Ergography using Mosso 's Ergograph in adolescent and geriatric age group
Location of hospital lab or research facility	Human Experiment lab, Dept. of Physiology
Name of internal preceptor(s)	Dr. John A. Lyngdoh Dr. Rituparna Barooah Dr. Shakti Dr Zakiyya Tasneem
Name of external preceptor (if any)	None
Learning objectives of the elective	1.To demonstrate peripheral muscular strength
Number of students that can be accommodated in this elective	3
Prerequisites for the elective	Exercise & muscle Physiology
Learning resources for students	To be provided by the faculty in charge
List of activities in which the student will participate	1.Perform the test 2.Interpret & keep records 3.Recruit subjects
Portfolio entries required	Yes. Photographs Master chart
Log book entry required	Yes Record of daily activity Reflection
Assessment	OSPE Demonstration
Other comments	Publication, poster presentation

Name of Block	Block I
Name of Elective	Study of Stethography in health and respiratory disease
Location of hospital lab or research facility	Human & Experiment lab, Dept. of Physiology
Name of internal preceptor(s)	Dr. John A. Lyngdoh Dr. Rituparna Barooah Dr. Shakti Dr. Zakiyya
Name of external preceptor (if any)	Dr. Vijay, Chest & TB medicine Dr. John, SR- Chest and TB
Learning objectives of the elective	<ol> <li>To be able to perform the test</li> <li>To note the thoracic excursions in various clinical and physiological states.</li> </ol>
Number of students that can be accommodated in this elective	3
Prerequisites for the elective	Respiratory Physiology
Learning resources for students	Will be provided by the faculty in –charge
List of activities in which the student will participate	1. perform the test 2. keep records
Portfolio entries required	Yes
Log book entry required	Yes
Assessment	<ol> <li>Demonstration</li> <li>OSPE</li> </ol>
Other comments	Write a project Report

### **Radiation Oncology**

Elective BLOCK 1 (Research related)

Name of block	Block 1 (Research related)
Name of elective	Oncology Research
Location of the hospital lab	Radiation Oncology department
or research facility	Oncology Section
	RCC (Regional Cancer Centre)
Title of research project	Study of pain score in cancer patients presenting to
	oncology OPD
Name of internal	Oncology Faculty
preceptor(s)	
Name of external	NA
preceptor(s)	
Learning objectives of	List types of pain
elective/ objective of	Demonstrate Knowledge of Pain scoring systems
research project	Demonstrate Knowledge of treatment of cancer pain
	Demonstrate knowledge of WHO pain management
	ladder
	Demonstrate knowledge of use of Opioid analgesics
Number of students that can	2
be accommodated	
Prerequisites	Knowledge of the Pain
	Knowledge of Pharmacology of pain medications
	Knowledge of Nerve blocks
	Knowledge of the Pain and Palliative approach
List of activities of student	Pain Assessment
participation	Pain Scoring
	Pain Management
	Analysis & interpretation of data
Learning resources	SOP provided by the department
Portfolio	Maintain a master chart / data sheet
	Develop protocol for pain management in cancer patients
Logbook	Complete with signature of faculty and should be graded
	meet expectations.
Research project	Complete the project within the allotted time.
Assessment	Formative
	Attendance and viva voce
	Presentation in the department of work noted in portfolio
Comments	Manuscript writing and publication will be encouraged.

# **Surgical Oncology**

Elective BLOCK 1 (Research related)

Name of block	Block 1 (Research related)
Name of elective	Primer in Cancer Research
Location of the hospital lab	Department of Surgical Oncology, NEIGRIHMS
or research facility	
Title of research project	Audit of Surgical Oncology Database
Name of internal	Faculty in Surgical Oncology
preceptor(s)	
Name of external	NA
preceptor(s)	
Learning objectives of	Identify the common study designs used in cancer
elective/ objective of	research
research project	List out the various outcome measures used in cancer research
	Describe the various methodologies involved in cancer
	research Recognize the various steps involved in informed consent
	process.
	Perform data collection for ongoing studies in the department.
	Perform literature search for a given research question.
	Analyse the database of surgical oncology patients
	maintained in the department.
	Employ the learnings in writing draft manuscript for
	ongoing studies.
	Demonstrate using reference management software.
	Critically analyse a given research article and present in a
	journal club
Number of students that can	2
be accommodated	
Prerequisites	Knowledge of the basics of research methodology
	(Preferable) Laptop for performing research work.
List of activities of student	Perform data collection for ongoing studies in the
participation	department.
	Perform literature search for a given research question.
	Analyse the database of surgical oncology patients
	maintained in the department.
	Write draft manuscript for ongoing studies(subject to
	availability of data)
	Demonstrate using reference management software.
	Present a paper in a journal club.
Loarning resources	Online recourses/material from PCPP
Learning resources	Online resources/material from BCBR

Portfolio	Maintain a master chart / data sheet
Logbook	Complete with signature of faculty and should be graded
	to meet expectations.
Research project	Complete the project within the allotted time.
Assessment	Formative
	Attendance and viva voce
	Presentation in the department of work noted in portfolio
Comments	Manuscript writing and publication will be encouraged.

### BLOCK- 2:

# **Electives**

# Department of Anaesthesiology & Critical care

Name of Block	Block 2 (Clinical)
Name of Elective	Airway Assessment and Management
Location of hospital lab or research facility	Pre- Operative Area & OT
Name of Internal preceptor (s)	<ol> <li>Dr. Nari M Lyngdoh</li> <li>Dr. Rajani Thabah</li> <li>Dr. Priyanka Dev</li> <li>Dr. Neha Rawat</li> <li>Dr. Laltanpuii Sailo</li> <li>Dr. Praneshwori Sinam</li> <li>Dr. Newstar Syiemiong</li> <li>Dr. Raju Shakya</li> <li>Dr. Mukul Garg</li> </ol>
Name of external preceptor (s)	NA
Learning objectives of elective  Number of student that can be accommodate	Airway Assessment 2
Pre- requisites	<ol> <li>Definition of Airway</li> <li>Airway assessment methods for difficult mask ventilation</li> <li>Airway assessment methods for difficult intubation</li> <li>Routine airway management</li> <li>Anticipated difficult airway management</li> <li>Unanticipated difficult airway management</li> <li>Extubation of airway</li> </ol>
List of activities of student participation	History taking     Clinical examination     Airway Examination     Airway management methods
Learning resources	Guided learning from books, case based learning, DOAP for airway assessment and management in patient simulation.
Portfolio	<ol> <li>Student has to write down history for four cases observing in Pre- Operative area</li> <li>Student will co- relate preoperative airway assessment with intra – operative finding and note it down.</li> </ol>
Logbook	Complete with signature of faculty and should be graded meet expectations (M)
Assessment	<ol> <li>Attendance</li> <li>Daily activities</li> <li>Logbook submission &amp; certification of completion for eligibility to appear in Final MBBS examination</li> </ol>

Name of Block	Block 2 (Clinical)
Name of Elective	Introduction to Critical Care
Location of hospital lab or research facility	ICU
Name of Internal preceptor (s)	10. Dr. Nari M Lyngdoh 11. Dr. Rajani Thabah 12. Dr. Priyanka Dev 13. Dr. Neha Rawat 14. Dr. Laltanpuii Sailo 15. Dr. Praneshwori Sinam 16. Dr. Newstar Syiemiong 17. Dr. Raju Shakya 18. Dr. Mukul Garg
Name of external preceptor (s)	NA
Learning objectives of elective	<ol> <li>Identity common indications for ICU admission.</li> <li>Attending ICU rounds &amp; basic patient's assessment.</li> <li>Recognize basic ICU equipment and monitoring systems.</li> </ol>
Number of student that can be accommodate	2
Pre- requisites	Students should have prior knowledge of:  • Vital signs and normal ranges  • Basic clinical examination
List of activities of student	Attending ICU rounds, observation and questioning
participation	<ul> <li>2. Bedside patient Assessment like:- <ul> <li>FAST HUGS BID</li> <li>Interpret basic findings &amp; discuss clinical relevance</li> </ul> </li> <li>3. Identification of different ICU monitoring system &amp; parameters</li> </ul>
Learning resources	ICU case based learning, books, DOAP for approach to critical care patients
Portfolio	Students should include:-  1. Approach to two cases including FASTHUGS BID  2. Learning points from equipment and monitoring systems
Logbook	Students should record:- 1. Diagnosis of patients 2. Equipment & monitoring parameters identification 3. Faculty signature and remarks
Assessment	<ol> <li>Attendance</li> <li>Daily activities</li> <li>Logbook submission &amp; certification of completion for eligibility to appear in Final MBBS examination</li> </ol>

# **Department of Cardiology**

Elective Block 2 (Clinical)	
Name of Block	BLOCK-2 (Clinical)
Name of Elective	Introduction to Interventional Cardiology
Location of hospital Lab or	Cath Lab (First floor), Near Echo Lab, Opposite OPD blood sample
research facility	collection center
Name of internal preceptor(s)	Faculty of Cardiology
Name of external preceptor(s)	NA
Learning objectives of elective	Introduction to Cardiac catheterization Diagnosis of Coronary artery disease using Cardiac Cathererisation Introduction to various interventional procedures in cardiology Introduction to coronary stenting
Number of students that can be accommodated	2
Prerequisites	Knowledge of Cardiac Anatomy and Physiology Knowledge of Coronary heart disease Knowledge about Congenital heart diseases
List of activities of student participation	History taking, Clinical and Laboratory evaluation, overview of Interventional cardiology procedures, Post interventional management
Learning resources	Guided learning from books, case based learning
Portfolio	Student has to note down history and clinical findings of all Cardiac conditions for which they have witnessed interventional procedure including their post interventional course and outcome.  The would undertake reflective writing about impact of such intervention in management of those disease conditions
Logbook	Complete with signature of faculty and should be graded not less than 'meet expectations' (M)
Assessment	Formative assessment(attendance, daily activities, logbook submission) and certification of completion for eligibility to appear in final MBBS examination
Comments	Will give students sneek-peek into cutting edge advanced cardiac intervention procedures

### **Department of Cardiology**

Elective Block 2 (Clinical)	
Name of Block	BLOCK-2 (Clinical)
Name of Elective	Echo cardiography and Cardiac imaging
Location of hospital Lab or research facility	Echo Lab, Opposite OPD blood sample collection centre
Name of internal preceptor(s)	Faculty of Cardiology
Name of external preceptor(s)	NA
Learning objectives of elective	Introduction to Cardiac Imaging Role of cardiac imaging and echo in diagnosis
Number of students that can be accommodated	3
Prerequisites	Knowledge of Cardiac Anatomy and Physiology Knowledge of Hemodynamics in Heath and disease
List of activities of student participation	History taking, Clinical and Laboratory evaluation, overview of Echocardiography and cardiac imaging.
Learningresources	Guided learning from books, case-based learning
Portfolio	Student has to note down history and clinical findings of all Cardiac conditions for which they have witnessed Echocardiography and cardiac imaging.  The would undertake reflective writing about impact of such imaging in diagnosis and management of those disease conditions
Logbook	Complete with signature of faculty and should be graded not less than 'meetexpectations'(M)
Assessment	Formative assessment (attendance, daily activities, logbook submission) and certification of completion for eligibility to appear in final MBBS examination
Comments	Will give students sneek-peek into cutting edge advanced cardiac intervention procedures

### **Department of CTVS**

Name of Block	Block 2
Name of Elective	Introduction to Cardiothoracic and Vascular Surgery
Location of hospital lab or research facility	CTVS OT and CTVS ICU- 3 <sup>rd</sup> Floor OT Complex
Name of internal preceptor(s)	Dr. Reuben L. Kynta, Dr. Neelamjingbha Sun
Name of external preceptor (if any)	
Learning objectives of the elective	To assess a patient requiring cardiac surgery. Introduction to planning and decision making in cardiac surgery Observation of Open heart / Thoracic / Vascular Surgery procedures Assistance in Select Open heart / Thoracic / Vascular Surgery cases Introduction to Postoperative Cardiac Critical care
Number of students that can be accommodated in this elective	4
Prerequisites for the elective	Knowledge of Cardiac, Vascular and Thoracic anatomy, Physiology, Pathology and Haematology
Learning resources for students	SOP provided by the Department Bailey and Love's- Cardiothoracic and Vascular Chapter Harrisson's Internal Medicine- Coronary artery disease, Valvular heart disease, Tuberculosis. Hutchinsons Clinical Methods- Respiratory System, Cardiovascular System
List of activities in which the student will participate	Student will shadow the Consultants in their daily rounds and will learn about the patient pathology and possible treatment solutions- conservative/medical/interventional/surgcial
Portfolio entries required	Maintain a master chart/ data sheet which will be provided by the Department of CTVS
Log book entry required	Complete with signature of faculty and should be graded meet expectations.
Assessment	Formative. Attendance and viva voce. Presentation in the department of work noted in portfolio
Other comments	The Department has a lot of data from which the student can be encouraged to write a manuscript for publication .

### **Department of Dentistry**

Name of Block	Dentistry
Name of Elective	Dental Caries and Non Caries Lesion
Location of hospital Lab or research facility	Dental OPD-3 <sup>rd</sup> Floor NEIGRIHMS
Name of internal preceptor(s)	Dr. S. Vijay Singh
• •	Dr. Lomtu Ronrang
Name of external preceptor (if any)	N/A
Learning objectives of the elective	<ol> <li>Definition</li> <li>Classification of Dental Caries &amp; Non         <ul> <li>Caries Lesion of teeth</li> </ul> </li> <li>Pathophysiology of Dental Caries &amp; Non             <ul> <li>Caries Lesion</li> <li>Prevention</li> <li>Prognosis</li> <li>Management</li> </ul> </li> </ol>
Number of students that can be accommodated in this elective	2
Prerequisites for the elective	<ol> <li>Knowledge about basic tools structure and tooth nomenclature</li> <li>Oral microbiology</li> </ol>
Learning resources for students	Books present in the Department, Library and
	Central Library
List of activities in which the students will participate	<ol> <li>Students will observe case under the guidance and learn to take history and perform relevant clinical examination.</li> <li>Learn about various restorative material used for tooth restoration</li> <li>Learn Radiographic interpretation</li> </ol>
Portfolio entries required	<ol> <li>Maintain a dairy for data (Dental Clinical) and investigations and treatment given</li> <li>Present 2 case on Dental Caries &amp; Non Caries Lesion</li> </ol>
Log book entry required	Yes
Assessment	<ol> <li>Formative</li> <li>Grand rounds</li> <li>Viva voce</li> <li>One Seminar</li> </ol>
Other comments	

### **Department of Dermatology**

Name of Block	Block 2 (Dermatology)
Name of Elective	Cutaneous Adverse Reactions (CADR)
Location of hospital lab or research facility	Dermatology OPD- 3 <sup>rd</sup> Floor NEIGRIHMS
Name of internal preceptor(s)	Dr. Shikha Thakur Dr. Anita Marak
Name of external preceptor (if any)	N/A
Learning objectives of the elective	<ol> <li>To classify and identify different type of cutaneous adverse drug reactions</li> <li>To describe the clinico dermatological manifestations of each type of cutaneous adverse drug reactions</li> <li>To understand the pathophysiology of cutaneous adverse drug reaction.</li> <li>To identify the prognostic factors associated with cutaneous adverse drug reactions</li> <li>To outline most common cause of CADR</li> </ol>
	6. To describe the investigations and monitoring of patients with CADR 7. To describe the management of various CADR
Number of students that can be accommodated in this elective	2
Prerequisites for the elective	Knowledge about pharmacokinetics and pharmacodynamics of drugs     Knowledge about basic skin lesions
Learning resources for students	Books and journals of Dermatology present in the departmental Library
List of activities in which the student will participate	<ol> <li>Students will observe cases of CADR under guidance and learn to take history and perform relevant clinical examination.</li> <li>Student will learn to differentiate CADR from common mimickers in dermatology</li> <li>Student will have to interpret the relevant investigation and prognosticate patients with CADR.</li> <li>for atients who will be admitted students will follow up in rounds regarding management</li> <li>For patients who do not require admission, students will learn to treat them on OPD basis and follow up.</li> <li>R/v the importance of the interprofessional team working together to find the underlying explanation for a cutaneous adverse drug reaction to improve outcomes.</li> </ol>
Portfolio entries required	<ol> <li>Maintain a dairy for data (Demographical Clinical) and investigations and treatment given.</li> <li>Classify the CADR</li> <li>Present 2 case on severe and one mild CADR</li> </ol>
Log book entry required	Yes
Assessment	<ol> <li>Formative</li> <li>Grand rounds</li> <li>Viva voce</li> <li>One Seminar</li> </ol>

Other comments	

# **Department of ENT, NEIGRIHMS.**

<b>Elective Block 2 (Clinical)</b>	Elective Block 2 (Clinical)	
Name of the Block	Block – 2 (Clinical)	
Name of Elective	Endoscopies in ENT (Otoendoscopy, nasalendoscopy,	
	laryngoscopy/ hypopharyngoscopy, tracheoscopy,	
	esophaguscopy, bronchoscopy, thoracoscopy, mediastinoscopy,	
	etc.) both rigid and fibreoptic.	
T C1 1.T. 1	D (CENTE/D ) M 1' ' /C ' 1O 1 /	
Location of hospital Lab	Department of ENT/ Pulmonary Medicine/ Surgical Oncology/	
or Research facility	General Surgery	
Name of internal	Dr. Suvamoy Chakraborty, Dr. Abhijeet Bhatia, Dr. Vijay	
preceptor(s)	Nongpiur, Dr. Arup Jyoti Baruah	
	2 0	
Name of external	NA	
preceptor(s)		
Learning objectives of	All types of endoscopies	
elective	2 4	
Number of students that can be accommodate	3-4	
Prerequisites	Definition, Pre and Post-Operative care, Procedure,	
Trerequisites	Identification of Instruments, care, complications and	
	documentation.	
List of activities of student	History taking Clinical and Laboratory evaluation, Radiological	
participation	evaluation.	
Learning resources	Guided learning from books, case based learning.	
Portfolio	Student has to note down history and clinical findings of 5 cases	
	observed in the respective departments.	
	and the property of the partition of the	
Logbook	Complete with signature of faculty and should be graded meet	
	expectations (M)	
Assessment	Formative assessment (attendance, daily activities, logbook	
	submission) and certification of completion for eligibility to	
	appear in Final MBBS Examination.	
Comments	Students are expected to understand empathy and develop their	
	communication skills.	

<b>Elective Block 2 (Clinical)</b>	
Name of the Block	Block – 2 (Clinical)
Name of Elective	ENT emergency and its management
Location of hospital Lab or Research facility	Department of ENT
Name of internal preceptor(s)	Dr. Suvamoy Chakraborty, Dr. Abhijeet Bhatia, Dr. Zareen Lynrah
Name of external preceptor(s)	NA
Learning objectives of elective	All types of emergencies in ENT
Number of students that can be accommodate	3 – 4
Prerequisites	Definition, Different emergencies and its management
List of activities of student participation	History taking Clinical and Laboratory evaluation, Radiological evaluation and management
Learning resources	Guided learning from books, case based learning.
Portfolio	Student has to note down history and clinical findings of 5 cases observed in the department.
Logbook	Complete with signature of faculty and should be graded meet expectations (M)
Assessment	Formative assessment (attendance, daily activities, logbook submission) and certification of completion for eligibility to appear in Final MBBS Examination.
Comments	Students are expected to understand empathy and develop their communication skills.

### **Department of General Medicine**

Elective Block 2 (Clinical)	T = 1 = 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2
Name of Block	BLOCK-2 (Clinical)
Name of Elective	Medicine Critical Care Unit
Location of hospital Lab or research facility	2 <sup>nd</sup> Floor Main hospital building
Name of internal preceptor(s)	Dr. ladarilangTiewsoh
Name of external preceptor(s)	NA
Learning objectives of elective	Student should understand the important medical interventions carried out for patients in the intensive care unit To demonstrate and elicit the steps for ACLS Respiratory supporting system used in the intensive care unit Management of common medical emergency cases in the intensive care unit
Number of students that can be accommodated	5
Prerequisites	What is the purpose of Intensive care medicine What type of medical and surgical cases does the intensive care unit caters to
List of activities of student participation	Study the cases admitted to ICU Basic monitoring requirements for seriously ill patients Reading of ABG Management of Shock (septic /hypovolemic /cardiogenic ) Management of Respiratory failure Management of Status epilepticus Participating in counseling relatives of dying patients
Learning resources	Guided learning from books, case based learning, observing procedures in icu
Portfolio	Student has to note down clinical findings of 2 cases observed in intensive care unit Student has to write down and analyze ABG in two critically ill patient
Logbook	Complete with signature of faculty and should be graded meet expectations (M)
Assessment	Formative assessment (attendance, daily activities, logbook submission) and certification of completion for eligibility to appear in final MBBS examination
Comments	Students are expected to understand empathy and develop their communication skills

Elective Block (Clinical)		
Name of Block	BLOCK-2 (Clinical)	
Name of Elective	Haemodialysis	
Location of hospital Lab or research facility	Dialysis Unit, Department of Medicine	
Name of internal preceptor(s)	Faculty of General Medicine	
Name of external preceptor(s)	NA	
Learning objectives of	Describe the indications of haemodialysis	
elective	Describe the contraindications of haemodialysis	
	Perform ABG interpretation	
	Communicate treatment plan and follow up	
Number of students that can	3	
be accommodated		
Prerequisites	Definition, types and causes of kidney disease and investigations required	
List of activities of student participation	History taking, Clinical and Laboratory evaluation, Patient counseling	
Learning resources	Guided learning from books, case based learning, DOAP for ABG interpretation, peripheral intravenous catheter	
Portfolio	Student has to note down history and clinical findings of 2 cases Student has to write down and analyze investigations of the CKD Patients	
Logbook	Complete with signature of faculty and should be graded meet expectations (M)	
Assessment	Formative assessment (attendance, daily activities, logbook submission) and certification of completion for eligibility to appear in final MBBS examination	
Comments	Students are expected to understand empathy and develop their communication skills	

Elective Block (Clinical)		
Name of Block	BLOCK-2 (Clinical)	
Name of Elective	DOTS	
Location of hospital Lab or research facility	DOTS Centre, Department of Medicine	
Name of internal preceptor(s)	Faculty of General Medicine	
Name of external preceptor(s)	NA	
Learning objectives of	Describe the various ATT regimes	
elective	Describe the ADRs of ATT	
	Perform sputum tests interpretatiom Communicate treatment plan and follow up	
Number of students that can be accommodated	3	
Prerequisites	Knowledge of Tuberculosis and Extrapulmonary tuberculosis	
List of activities of student participation	History taking, Clinical and Laboratory evaluation, Patient counselling, NTEP guidelines	
Learning resources	Guided learning from books, case based learning, DOAP for prescribing appropriate regimen, montoux test, AFB staining	
Portfolio	Student has to note down history and clinical findings of 2 cases Student has to write down and analyze investigations of the TB Patients	
Logbook	Complete with signature of faculty and should be graded meet expectations (M)	
Assessment	Formative assessment (attendance, daily activities, logbook submission) and certification of completion for eligibility to appear in final MBBS examination	
Comments	Students are expected to understand empathy and develop their communication skills	

# **Electives of Department of General Surgery**

Name of Block	Elective 01 (Clinical)	
Name of elective	Foundation Course in Minimally Invasive Surgery	
Elective Code	SUR/EC: FC-MIS	
Location of hospital lab or research facility	Department of Surgery, NEIGRIHMS, Shillong	
Number of students	04	
Name of internal preceptor(s)	Dr Noor Topno	
	Dr Arup Baruah	
	Dr Dathiadiam Tongper	
Name of external preceptor (if any)	Mr Melbourne Marbaniang SNO Ms Geeta (Surgery OT I/C)	
Learning objectives of the elective	Understand advantages and disadvantages of Laparoscopic surgery	
	Understand the components of Laparoscopic surgery	
	Enumerate the basic laparoscopic instruments and their use	
	Participate in Laparoscopic cholecystectomy	
TLM (Theory)		
Venue: Surgery Clinical Teaching Room	Components of Laparoscopy System (2 hours)     Dr Noor Topno	
	• Camera (Telescope)	
	Video control unit	
	• Insufflator	
	Suction and Irrigation system	
	Electrosurgical unit	
	Image display system	
	• Cart	
	2. Basic instrumentation (2 hour)	
	Dr Arup Baruah	
	Veress needle	
	Trocar and cannula	
	Maryland forceps	
	Toothed grasper	
	Babcock forceps	
	Clip applicator	
	Claw grasper	
	• Specimen extractor	
	3. Ergonomics in laparoscopic surgery & advantages and disadvantages of Laparoscopic surgery (1 hours)  Dr Dathiadiam Tongper	
TLM (DOPS/DOAP)	Practical: Tuesday/Wednesday/Thursday/Friday	
Venue: Surgery OT (MOT- 2)	1: OT etiquette ( NO Geeta)	
	2. Scrubbing and gowning (NO Geeta)	
	3. Biomedical waste management (Melbourne)	
	4. Familiarization with Laparoscopy system (faculty)	
	5. Compile list of laparoscopic equipmentin OT (Melbourne)	
	6. Observe and participate in Laparoscopic	
	Cholecystectomy(Faculty)	
	7. Writing Biopsy forms (SRD)	
	8. Writing OT notes(SRD)	
	9.Dismantling/Reassembly of the instruments (Melbourne)	
	10. Decontamination/sterilization of instruments (NO Geeta)	
Prerequisites for the elective	Completed Phase 3 part I	
Project work: (Optional)	Group Project submission and presentation	
Logbook /Portfolio entries required	Day wise learning activity	
•	Individual reflection writing: What was learnt, how	
•		

	it was learnt was it useful
Assessment	Formative:
	Attendance
	<ul> <li>Participation in OT and team activities</li> </ul>
	<ul> <li>Submission and presentation of project</li> </ul>
	<ul> <li>Portfolio and logbook entries</li> </ul>
Certification	Upon satisfactory assessment outcome
Learning resources for students	Love and Bailey

Name of Block	Elective 01 (Clinical)
Name of elective	Foundation Course on Upper GI Endoscopy
Elective Code	SUR/EC: FC-UGI
Location of hospital lab or research facility	NEIGRIHMS, Shillong
Number of students that can be accommodated in this elective	04
Name of internal preceptor(s)	Dr Noor Topno
	Dr Dathiadiam Tongper
Name of external preceptor (if any)	None
Learning objectives of the elective	Endoscopy module (Lectures)
	Learn the principles of Endoscopy
	Assist in endoscopic procedures
TLM (Theory)	Endoscopy module (Lectures)
Venue: Surgery Clinical Teaching Room	Dr Noor Topno
	• Upper GI video scope (1 hour)
	• Lower GI video scope (1 hour)
	<ul> <li>Video processor</li> </ul>
	<ul> <li>Image display</li> </ul>
	Air pump/Water pump
	• Suction
	<ul> <li>Image storage</li> </ul>
	Cleaning, Maintenance & Precautions (1 hour)
TLM (Practical)	Endoscopy module (Practical)
Venue: Surgery Endoscopy Suite	Dr Dathiadiam Tongper
	Relevant bowel anatomy
	Observe and assist in Upper GI procedures
	Pre-procedure counselling
	Biomedical waste management
	• Consent form
	• Fill biopsy forms
	Perform rapid urease test
	Write/Generate reports
Prerequisites for the elective	Necessary knowledge of Bowel Anatomy/ and
Trerequisites for the elective	fundamental knowledge of common surgical
	conditions undergoing UGI and LGI Endoscopy
Project work (Optional)	On Upper GI endoscopy
Logbook /Portfolio entries required	Day wise learning activity
	Individual reflection writing: What was
	learnt, how it was learnt was it useful
	Individual feedback writing
Assessment	Formative:
	Daily participation in Endoscopic suite and
	team activities
	Submission and presentation of project
	Documentation of attendance
G .: C .:	Required portfolio and logbook entries
Certification	Satisfactory completion of posting
Learning resources for students	Bailey and Love Short Practice of Surgery
	Sabiston Text Book of Surgery
	Educational videos

### **Elective Posting Neurology learning experience**

Name of Block	Block 2
Name of Elective	CLINICAL LOCALISATION IN
	NEUROLOGY
Location of hospital Lab or research	NEIGRIHMS, Neurology Ward
facility	Neurology OPD
Name of internal preceptor(s)	Dr. S R SHARMA
The state of the s	Dr. BAIA SYNMON
	Dr. MAHENDRA THAKRE
Name of external preceptor if applicable	NA
Learning objectives of elective	To learn systematic approach to clinical
	evaluation of neurological disorders.
	2. Neurological examination and localisation
	3. To function effectively as a teammember in
	a multidisciplinary teammanaging
	neurological disorder
	4. To counsel patients about disease prognosis
	and goals of care appropriately
Number of students that can be	3
accommodated in this elective	
Prerequisites for elective	baseline knowledge of neuroanatomy.
List of activities of student participation	History taking skills
	2. Clinical neurological examinations
	3. Participate in IPD Care, rounds and grand
	rounds
	4. Observe diagnostic procedure in wards CSF
	tapping, Biopsy etc.
	5. Participate in teaching sessions of the
	department 6. Case presentation
	7. Participate in patient education, counselling
	and multidisciplinary team meeting
	8. Participate in Workshop/seminar/journal
	club meetings
Learning Resources	Hutchinson clinical methods
Ecariming resources	Dejong's The Neurologic Examination. by
	Campbell
	Harrison Neurology Section
	Clinical videos
	Research articles
Portfolio entries required	Assignments provided
_	one case presentation
	Documentation of self-directed learning
	as summary and reflection
Log book entry required	Log book entry required
Assessment	Attendance
	Case presentation
	Viva voice
	OSCE
	Logbook assessment

# **Department of Neurosurgery**

Elective Block 2 (Clinical)	
Name of the Block	Block – 2 (Clinical)
Name of the Elective	Traumatic Brain Injury and its Initial Management
Location of Hospital Lab or Research facility	Department of Neurosurgery
Name of internal Perceptor(s)	Dr. Tamajyoti Ghosh
Name of external preceptor (s)	NA
Learning objectives of elective	All Traumatic Brain injury cases attending Emergency Department
Number of students that can be accommodate	4 (four)
Prerequisites	
List of activities of student participation	History taking Clinical and Laboratory evaluation, Radiological evaluation and initial management
Learning resources	Guided learning from books, case based learning.
Portfolio	Student has to note down history and clinical findings of 15 cases observed in the department.
Logbook	Complete with signature of faculty and should be graded meet expectations
Assessment	Formative assessment (attendance, daily activities, logbook submission) and certification of completion for eligibility to appear in Final MBBS Examination
Comments	Students are expected to understand empathy and develop their communication skills

#### **Department of Obstetrics & Gynaecology**

1. Example of a learning experience in block 1

Table 1: Example of a block 1 learning experience (Contraception)

Name of Block	Block 2 ( Clinical)
Name of Elective	Contraception
Location of hospital Lab or researchfacility	Department of Obstetrics & Gynaecology
Name of internal preceptor(s)	Dr. Wansalan Karu Shullai
Name of external preceptor (if applicable)	NA
Learning objectives of elective	<ul> <li>To be able to counsel couples for temporary and permanent methods of contraception.</li> <li>To be able to provide emergency contraception care.</li> </ul>
Number of students that can be accommodated in this elective	2 - 4
Prerequisites for elective	Good clinical practice
	Knowledge of various methods of contraception.
Learning resources for students	WHO Medical eligibility criteria for contraceptive use,2025
List of activities of student participation	<ul> <li>Describe and discuss the temporary and permanent methods of contraception, indications, technique and complications; selection of patients, side effects and failure rate including Ocs, male contraception, emergency contraception and IUCD.</li> <li>Describe discuss PPIUCD programme</li> </ul>
Portfolio entries required	Daily log of a patients seen and activities participated
	At least 04 fully worked up patients to be documented
Log book entry required	Satisfactory completion of posting signed by institutional preceptor
Assessment	<ul> <li>Attendance</li> <li>Successful verification of required portfolio entries.</li> <li>Written / Viva voce/ skill assessment.</li> </ul>
Other comments	

Table 2: Example of a block 2 learning experience (Antenatal Care)

Name of Block	Block 2 ( Clinical)
Name of Elective	Antenatal Care
Location of hospital Lab or researchfacility	Department of Obstetrics & Gynaecology
Name of internal preceptor(s)	Dr. Ananya Das
Name of external preceptor if applicable	NA
Learning objectives of elective	<ul> <li>To provide basic antenatal care</li> <li>Screening for high risk factors</li> <li>To be able to interpret normal &amp; abnormal ANC investigation.</li> <li>To learn routine antenatal follow up.</li> </ul>
Number of students that can be accommodated in this elective	2-4
Prerequisites for elective	<ul> <li>To be able to perform general physical examination</li> <li>To be able to perform basic obstetrics</li> </ul>
	examination
List of activities of student participation	<ul> <li>Good clinical practice</li> <li>Enumerate, describe and discuss the objectives of antenatal care, assessment of period of gestation; screening for high-risk factors.</li> </ul>
	Elicit document and present an obstetric history including menstrual history, last menstrual period, previous obstetric history, comorbid conditions, past medical history and surgical history
Learning Resources	Bedside clinics in obstetrics. A practical approach to theoretical discussion -     Arup Kumar Majhi, 4 <sup>th</sup> edition
Portfolio entries required	Daily log of a patients seen and activities participated
	At least 04 fully worked up patients to be documented
Log book entry required	Satisfactory completion of posting signed by institutional preceptor

Assessment	Attendance Successful verification of required portfolio entries. Written / Viva voce/ skill assessment.
Other comments	

Table 3: Example of a research learning experience in block 2 (Vaginal discharge)

Name of Block	Block 2 ( Clinical)
Name of Elective	Vaginal discharge
Location of hospital Lab or researchfacility	Department of Obstetrics & Gynaecology
Name of internal preceptor(s)	Dr. Ananya Das
Name of external preceptor	NA
Learning objectives of elective	<ul> <li>To be able to differentiate between physiological and pathological vaginal discharge.</li> <li>To provide management of common causes and the syndromic management.</li> </ul>
Number of students that can be accommodated in this elective	2-4
Prerequisites for elective	Able to elicit history
	Able to do per spuculum and prevaginal examination
	Good clinical practice
List of activities of student participation	Describe the clinical characteristics of physiological vaginal discharge.
	Describe and discuss the etiology     (with special emphasis on     Candida, T. vaginalis, bacterial     vaginosis), characteristics, clinical     diagnosis, investigations, genitally     giene, management of common     causes and the syndromic     management
Learning Resources	NACO-STI/RTI syndromic case management.
Portfolio entries required	Daily log of a patients seen and activities participated
	<ul> <li>At least 04 fully worked up patients to be documented</li> </ul>
Log book entry required	Satisfactory completion of posting signed by institutional preceptor

Assessment	Attendance
	<ul> <li>Successful verification of required portfolio entries.</li> </ul>
	<ul> <li>Written / Viva voce/ skill assessment.</li> </ul>
Other comments	

#### 4. Example of an external rotation in block 2

Table 4: Example of a community clinic rotation in block 2 (Labour)

Name of Block	Block 2 ( Clinical)
Name of Elective	Labour
Location of hospital Lab or researchfacility	Labour Room, Department of Obstetrics & Gynaecology
Name of internal preceptor(s)	Dr. Nalini Sharma
Name of external preceptor if applicable	NA
Learning objectives of elective	<ul> <li>To be able to demonstrate the stages of normal labour in a simulated environment/ mannequin</li> <li>To observe and assist the conduct of a normal vaginal delivery</li> </ul>
Number of students that can be accommodated in this elective	2-4
Prerequisites for elective	Able to perform pervaginal examination
	<ul> <li>Able to perform basic obstetrics examination.</li> </ul>
List of activities of student participation	Good clinical practice
List of activities of student participation	<ul> <li>Enumerate and discuss the physiology of normal labor, mechanism of labor in occipito-anterior presentation; monitoring of labor including partogram; conduct of labor, pain relief; principles of induction and acceleration of labor; management of third stage of labor.</li> <li>Define, describe the causes, pathophysiology, diagnosis, investigations and management of pretermlabor, PROM and postdated pregnancy</li> <li>Observe/assistin the performance of anartificial rupture of membranes</li> <li>Demonstrate the stages of normal aborinasimulated environment /mannequinand counsel on methods of safe abortion</li> <li>Observeandassist the conductof anormal variety deliverers</li> </ul>
Learning Resources	<ul> <li>aginal delivery</li> <li>Beside clinics in obstetrics- a practical approach to theoretical discussion – Arup Kumar Majhi- 4<sup>th</sup> Edition</li> </ul>
Portfolio entries required	<ul> <li>Daily log of a patients seen and activities participated</li> <li>At least 04 fully worked up patients to be documented</li> </ul>

Log book entry required	Satisfactory completion of posting signed by institutional preceptor
Assessment	<ul> <li>Attendance</li> <li>Successful verification of required portfolio entries.</li> <li>Written / Viva voce/ skill assessment.</li> </ul>
Other comments	

Table 5: Example of a community clinic rotation in block 2 (Basic Infertility Work up & Management)

Name of Block	Block 2 ( Clinical)
Name of Elective	Basic Infertility Work up and Management
Location of hospital Lab or researchfacility	Department of Obstetrics & Gynaecology
Name of internal preceptor(s)	Prof. (Dr.) Manika Agarwal
Name of external preceptor if applicable	
Learning objectives of elective	<ul> <li>Basic infertility assessment for male and female infertility</li> <li>Basic of OI, TVS folliculometry and IVI</li> </ul>
Number of students that can be accommodated in this elective	5-6
Prerequisites for elective	Basic knowledge of physiology of menstruation and ovulation and male reproductive system. Basics of reproduction.
List of activities of student participation	<ul> <li>History taking and clinical examination.</li> <li>Biochemical markers of male and female infertility</li> <li>HSG, HAS</li> <li>Demonstration of ovulation (TVS)</li> <li>Folliculometry</li> <li>OI</li> <li>Ovulation trigger and IUI</li> </ul>
Learning Resources	Speroff text book of Gynae ESHRE guidelines.
Portfolio entries required	Log Book entry of patients seen
Log book entry required	YES
Assessment	• Written, Viva, Skills assessment.
Other comments	

Table 6: Example of a block 2 learning experience (USG in first and third trimester)

Name of Block	Block 2 ( Clinical)	
Name of Elective	Obstetrics USG in first and third trimester	
Location of hospital Lab or researchfacility	Department of Obstetrics & Gynaecology	
Name of internal preceptor(s)	Dr. Sukalyan Halder	
Name of external preceptor if applicable		
Learning objectives of elective	<ul> <li>To learn early pregnancy scan</li> <li>To assess fetal well being growth and maturity.</li> </ul>	
Number of students that can be accommodated in this elective	4-5	
Prerequisites for elective	Basic knowledge about physiology of fetal growth and development	
List of activities of student participation	Early pregnancy scan with demonstration of gestational sec, CRL measurement, cardiac activity demonstration pregnancy site determination.	
	Third trimester scan with fetal growth parameters (biometry) with AFI, Placental localization and Doppler	
Learning Resources	<ul> <li>Donald's school text book of USG in Obstetrics &amp; Gynaecology/ ISUOG guidelines.</li> </ul>	
Portfolio entries required	Daily log of a patients seen and activities participated	
Log book entry required	Satisfactory completion of posting signed by institutional preceptor	
Assessment	<ul> <li>Attendance</li> <li>Successful verification of required portfolio entries.</li> <li>Written / Viva voce/ skill assessment.</li> <li>Direct observation of procedural skills (DOPS).</li> </ul>	
Other comments		

Name of Block	Block 2 (Clinical)
Name of Elective	Optical Coherence Tomography (OCT)
Location of hospital Lab or research facility	Dept. of Ophthalmology, NEIGRIHMS
Name of internal preceptor(s)	Prof. (Dr.) Tanie Natung, HOD
Name of external preceptor(s)	Nil
Learning objectives of elective	<ul> <li>i) Evaluation of central macular thickness of Retina of common retinal conditions causing macular edema/other macular changes by OCT.</li> <li>ii) Evaluation of optic nerve head in cases of various Glaucomas by OCT.</li> <li>iii) To counsel patients with retinal or glaucoma diseases.</li> </ul>
Number of students that can be accommodated	2 (Two)
Prerequisites	Must have the basic knowledge of the Anatomy and Physiology of Retina, Optical Coherence Tomography, common retinal conditions and Glaucomas.
List of activities of student participation	<ul> <li>i) To observe optical coherence tomography being carried out by optometrists.</li> <li>ii) Discuss common retinal and glaucoma cases with resident doctors and Faculty members.</li> <li>iii) Present at least 3 fully worked up cases during the departmental seminar with minimal basic statistics with conclusion.</li> </ul>
Learning resources	<ul> <li>i) Kanski's Clinical Ophthalmology</li> <li>ii) Retinal Imaging – Pradeep Venkatesh</li> <li>iii) Atlas of Ocular Tomography – Vishali Gupta</li> </ul>
Portfolio	Assignments provided Three worked up case records that have been presented. Documentation of self-directed learning as summary and reflection.
Logbook	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade".
Assessment	Attendance Formative: Participation in OPD and team activities, Presentation of worked up cases, Documentation of attendance and required portfolio and log book entries.
Comments	

Name of Block	Block 2 (Clinical)
Name of Elective	Ocular Biometry
Location of hospital Lab or research facility	Dept. of Ophthalmology, NEIGRIHMS
Name of internal preceptor(s)	Prof. (Dr.) Tanie Natung, HOD
Name of external preceptor(s)	Nil
Learning objectives of elective	<ul> <li>i) To observe biometry being done by the optometrists.</li> <li>ii) To calculate the correct IOL formulae for patients undergoing cataract surgeries.</li> <li>iii) To learn the various formulae for IOL power calculation.</li> <li>iv) To learn various techniques for IOL power measurement.</li> </ul>
Number of students that can be accommodated	2 (Two)
Prerequisites	Must have the basic knowledge of anatomy of eye, A-scan, Keratometer, Immersion Biometer and Optical Biometry
List of activities of student participation	<ul> <li>i) Participate in OPD rounds.</li> <li>ii) Participate in patient counseling and education.</li> <li>iii) Calculate the correct IOL formulae for the patients undergoing cataract surgery.</li> <li>iv) Learn syringing and Schiotz Tonometry.</li> <li>v) Present at least 3 fully worked up cases during the departmental seminar with minimal basic statistics with conclusion.</li> </ul>
Learning resources	i) Kanski's Clinical Ophthalmology
Portfolio	Assignments provided Three worked up case records that have been presented. Documentation of self-directed learning as summary and reflection.
Logbook	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade".
Assessment	Attendance Formative: Participation in OPD and team activities, Presentation of worked up cases, Documentation of attendance and required portfolio and log book entries.
Comments	

Name of Block	Block 2 (Clinical)
Name of Elective	Refraction
Location of hospital Lab or research facility	Dept. of Ophthalmology, NEIGRIHMS
Name of internal preceptor(s)	Dr. Lanalyn Thangkhiew, Additional Professor
Name of external preceptor(s)	Nil
Learning objectives of elective	<ul> <li>i) To know the refractive errors of patients presenting with diminished vision.</li> <li>ii) To observe refraction being carried out by optometrists.</li> <li>iii) To learn automated refraction and observe manual retinoscopy.</li> <li>iv) To learn about different types of refractive errors.</li> </ul>
Number of students that can be accommodated	2 (Two)
Prerequisites	Must have the basic knowledge of properties of refraction, automated refraction and retinoscopy.
List of activities of student participation	<ul> <li>i) Participate in OPD rounds.</li> <li>ii) Observe optometrists doing retinoscopy, automated refraction.</li> <li>iii) Note down different types of refractions.</li> <li>iv) Present at least 5 cases of fully worked up refraction during the departmental seminars with minimal basic statistics with conclusion.</li> </ul>
Learning resources	<ul><li>i) Duke Elder's Refraction.</li><li>ii) AAO BCSC's Clinical Optics, Section III.</li></ul>
Portfolio	Assignments provided Three worked up case records that have been presented. Documentation of self-directed learning as summary and reflection.
Logbook	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade".
Assessment	Attendance Formative: Participation in OPD and team activities, Presentation of worked up cases, Documentation of attendance and required portfolio and log book entries.
Comments	

Name of Block	Block 2 (Clinical)
Name of Elective	Automated Static Perimetry (Humphrey Visual Field Analysis)
Location of hospital Lab or research facility	Dept. of Ophthalmology, NEIGRIHMS
Name of internal preceptor(s)	Dr. Benjamin Nongrum, Associate Professor
Name of external preceptor(s)	Nil
Learning objectives of elective	<ul> <li>i) To learn about the automated static perimetry.</li> <li>ii) To observe optometrists carrying out the automated perimetry.</li> <li>iii) To interpret the normal HFA charts.</li> <li>iv) To interpret various abnormal HFA charts.</li> <li>v) To present at least 3 HFA charts.</li> </ul>
Number of students that can be accommodated	2 (Two)
Prerequisites	Must have the basic knowledge of visual pathways, visual fields and common abnormal visual field defects.
List of activities of student participation	<ul><li>i) Participate in the visual field charting with optometrists.</li><li>ii) Present at least 5 abnormal HFA chartings in the departmental seminars with minimal basic statistics with conclusion.</li></ul>
Learning resources	i) Kanski's Clinical Ophthalmology ii) Practical Guide to Interpret Visual Fields – Reddy
Portfolio	Assignments provided Three worked up case records that have been presented. Documentation of self-directed learning as summary and reflection.
Logbook	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade".
Assessment	Attendance Formative: Participation in OPD and team activities, Presentation of worked up cases, Documentation of attendance and required portfolio and log book entries.
Comments	

### **Department of Orthopaedics**

Elective Block 2 (Clinical)		
Name of Block	Elective Block 2 (Clinical)	
Name of Elective	Basic Rehabilitation of amputees	
Location of Hospital Lab or Research Facility	Artificial Limb Centre and Orthopaedic OPD	
Name of Internal Receptor (s)	<ol> <li>Prof. (Dr.) Bhaskar Borgohain</li> <li>Dr. Tashi G. Khonglah</li> </ol>	
Name of External Receptor (s)	N.A.	
	<ul><li>i) Understand various topics of amputation</li><li>ii) Understand common problems of amputations</li></ul>	
Learning Objectives of elective		
Zearining defectives of electric	iii)Describe rehabilitations of amputation	
	iv) Describe fabrication of Artificial Limb	
	custom made for each amputee.	
No. of Students that can be accommodated	3 (three)	
Prerequisites	i) Understanding of anatomy of the limbs	
	(i) Understanding of principles of	
	rehabilitation of amputee.	
List of activities of student participation	(ii) Clinical evaluation of amputee	
List of activities of student participation	(iii)Vascular assessment of the limb.	
	(iv) Assessment of quality of amputation stump (ideal stump)	
	P & O Technician, books and e-resources case	
Learning resources	based learning.	
Portfolio	Assignment on a case to be submitted by the student.	
Log Book	Concept with signature of faculty and P & O technician	
	Formative assessment, attendance, log book	
Assessment	and completion certificate.	
	Students are expected to understand the	
Comments	importance of rehabilitation of amputees and	
	technologies behind Rehabilitation.	

### **Department of Pediatrics**

Elective Block 2 (Clinical)	
Name of Block	BLOCK-2 (Clinical)
Name of Elective	Basic neonatal care and Lactation support
Location of hospital Lab or	Infertility clinic , Department of OBGYN , Intra Uterine Insemination
research facility	(IUI) lab, Assisted Reproductive Technology (ART) lab
Name of internal	Dr. Rosina Ksoo
preceptor(s)	
Name of external	
preceptor(s)	NA
Learning objectives of	Describe basic care of the newborn in the hospital and at home
elective	Describe common problems of lactation
	Describe steps to support lactation and troubleshoot problems
Number of students that can	3
be accommodated	
Prerequisites	Basic neonatal care and physiology of lactation
List of activities of student	History taking, attends rounds, follow up mother baby duo, identify
participation	and trouble shoot lactation problem working with the faculty and
	postnatal war nurse. Educate mothers on appropriate care of the baby and Do's and Don'ts in for lactation success
Learning resources	Guided learning from books and e resources, case based learning
Portfolio	Student has to note down history and 2 cases during the period. Will write a reflection
Logbook	Complete with signature of faculty and should be graded meet expectations (M)
Assessment	Formative assessment (attendance, daily activities, logbook submission) and certification of completion for eligibility to appear in final MBBS examination
Comments	Patient are expected to understand the importance of basic neonatal care and exclusive breast feeding in neonatal care.

Elective Block 2 (Clinical)		
Name of Block	BLOCK-2 (Clinical)	
Name of Elective	Pediatric Nephrology	
Location of hospital Lab or research facility	Pediatric General Ward , First floor, main hospital building	
Name of internal preceptor(s)	Dr. Himesh Barman	
Name of external preceptor(s)	NA	
Learning objectives of elective	Describe various kidney diseases in children Discuss the management and prognosis of these conditions Counsel parents about the conditions and list indication of referral	
Number of students that can be accommodated	2	
Prerequisites	Knowledge of names and clinical presentation of common glomerular and tubular disorders in children	
List of activities of student participation	History taking, Clinical and Laboratory evaluation, attend round and participate in counseling sessions with faculty	
Learning resources	Guided learning from books e resources, case based learning, small group discussions	
Portfolio	Student has to note down history and clinical findings of 5 cases followed during their posting	
Logbook	Complete with signature of faculty and should be graded meet expectations (M)	
Assessment	Formative assessment (attendance, daily activities, logbook submission) and certification of completion for eligibility to appear in final MBBS examination	
Comments	Students are expected to learn about children in kidney diseases and learn counseling skills and learn to demonstrate empathy.	

Elective Block 2 (Clinical)	
Name of Block	BLOCK-2 (Clinical)
Name of Elective	Point of care Quality inprovement (POCQI) in child health
Location of hospital Lab or research facility	Pediatric OPD
Name of internal preceptor(s)	Dr. Himesh Barman
Name of external preceptor(s)	NA
Learning objectives of elective	Describe steps of POCQI methodology Collaborate with child health team to identify problem Apply POCQI methodology in a project to improve a process
Number of students that can be accommodated	3
Prerequisites	-
List of activities of student participation	Student under guidance of the faculty will identify a process related to patient care that needs improvement.  Will form a team of health care workers and will collaborate with them to apply POCQI methodology  Collect and analyze data of the indicators of the process.  Document in logbook/portfolio as case study.
Learning resources	Guided learning from books and e resources, case based learning, Project based learning
Portfolio	Student has document the process as a case study and write reflection on the experience
Logbook	Complete with signature of faculty and should be graded meet expectations (M)
Assessment	Formative assessment (attendance, daily activities, logbook submission) and certification of completion for eligibility to appear in final MBBS examination
Comments	Student are expected to understand need for continuous quality improve in health care setting and improve ability to cork in team and develop leadership skills

Elective Block 2 (Clinical)			
Name of Block	BLOCK-2 (Clinical)		
Name of Elective	Neonatal intensive care		
Location of hospital Lab or research facility	NICU, 4 <sup>th</sup> floor (near Labor room), Main hospital building		
Name of internal preceptor(s)	Dr. Rosina Ksoo		
Name of external preceptor(s)	NA		
Learning objectives of elective	Name common neonatal conditions needing intensive Describe common intervention and procedures done in a NICU Describe the utility of NICU equipments like Bubble CPAP, Phototherapy Unit and Neonatal Ventilators		
Number of students that can be accommodated	2		
Prerequisites	Basic knowledge about causes of neonatal mortality and morbidity in India.		
List of activities of student participation	Attend rounds, observe and follow up progress of the cases and participate in counseling sessions.		
Learning resources	Guided learning from books, case based learning, group discussion		
Portfolio	Student has to note down history and clinical findings, cource and outcome of 5 cases		
Logbook	Complete with signature of faculty and should be graded meet expectations (M)		
Assessment	Formative assessment (attendance, daily activities, logbook submission) and certification of completion for eligibility to appear in final MBBS examination		
Comments	Students are likely to get an idea about causes of neonatal morbidity and mortality and develop empathy		

### **Department of Psychiatry**

Elective Block 2 (Clinical)			
Name of Block	BLOCK-2 (Clinical)		
Name of Elective	Substance Use Disorders		
Location of hospital Lab or research facility	Department of Psychiatry, NEIGRIHMS		
Name of internal preceptor(s)	Dr. Subhash Das & Dr. Arvind Nongpiur		
Name of external preceptor(s)	NA		
Learning objectives of	Identification of types of substance use disorder		
elective	Assessment of withdrawal symptoms		
	Identifying the modalities of treatment available		
Number of students that can be accommodated	2		
Prerequisites	Definition, types of substance use disorders		
List of activities of student participation	History taking, Clinical and Laboratory evaluation, Psychological evaluation		
Learning resources	Guided learning from books, case base learning, DOAP		
Portfolio	Student has to take detailed history and clinical findings of 2 cases Student has to write down treatment plan, investigations and observe Non-Pharmacological Management and interventions		
Logbook	Complete with signature of faculty and should be graded meet expectations (M)		
Assessment	Formative assessment (attendance, daily activities, logbook submission) and certification of completion for eligibility to appear in final MBBS examination		
Comments	Students are expected to understand empathy and develop their communication skills		

Elective Block 2 (Clinical)			
Name of Block	BLOCK-2 (Clinical)		
Name of Elective	Consultation Liaison Psychiatry		
Location of hospital Lab or research facility	Department of Psychiatry, NEIGRIHMS		
Name of internal preceptor(s)	Dr. Arvind Nongpiur & Dr. Subhash Das		
Name of external preceptor(s)	NA		
Learning objectives of elective	1.To identify and understand the psychiatric aspects associated with physical co-morbidities  2.To have an understanding about the management approach of the psychiatric co-morbidities associated with physical illness		
Number of students that can be accommodated	2		
Prerequisites	Some basic understanding of features of psychiatric disorders in hospital setting		
List of activities of student participation	History taking, Clinical and Laboratory evaluation, Psychological evaluation		
Learning resources	Guided learning from books, case base learning, DOAP		
Portfolio	Student has to take detailed history and clinical findings of 2 cases Student has to write down treatment plan, investigations of the developmental disorder and observe psychological tests and interventions		
Logbook	Complete with signature of faculty and should be graded meet expectations (M)		
Assessment	Formative assessment (attendance, daily activities, logbook submission) and certification of completion for eligibility to appear in final MBBS examination		
Comments	Students are expected to understand empathy , develop their communication skills and be able to identify the various psychiatric co-morbidities associated with physical illness		

#### **Department of Radiation Oncology**

Elective Block 2 (Clinical)	
Name of Block	BLOCK-2 (Clinical)
Name of Elective	Radiation Oncology
Location of hospital Lab or	Radiation Oncology OPD/ Oncology Ward/Day care chemotherapy/
research facility	Radiotherapy center (Equipments)
Name of internal	Radiation Oncology Faculty
preceptor(s)	
Name of external	
preceptor(s)	NA
Learning objectives of	Evaluation/staging and work up of Oncology cases
elective	Management of common cancer
	Overview of Radiation therapy (RT)
	Overview of Chemotherapy
	Management of treatment side effects of RT/Chemotherapy
Number of students that can be accommodated	2
Prerequisites	Knowledge of the Staging System (AJCC)
	Knowledge of Cancer Spread
	Knowledge of Basic Radiology/CT scan/MRI/USG/Xray
	Knowledge of Basic Tumor Pathology/IHC/Tumor Markers
List of activities of student	History taking, Clinical and Laboratory evaluation, overview of
participation	Radiation and Chemotherapy treatment, Follow up protocols,
	Multidisciplinary Tumor (MDT) Board Management
Learning resources	Guided learning from books, case based learning, Radiotherapy
	simulation & planning/Chemotherapy planning and administration
Portfolio	Student has to note down history and clinical findings of at least 4
	common cancers in North East India presetting at NEIGRIHMS
	Student has to write down and analyze staging investigations for
	common cancers investigations for respective case
	Students has to suggest appropriate treatment algorithm as per respective case and respective stage
Logbook	Complete with signature of faculty and should be graded meet
200000	expectations (M)
Assessment	Formative assessment (attendance, daily activities, logbook
	submission) and certification of completion for eligibility to
	appear in final MBBS examination
Comments	Students are expected to understand Cancer diagnosis/work up/
	treatment and follow up methods.
	Students has to learn communication skill

#### **Department of Radiology**

Elective Block 2 (Clinical)			
Name of Block	BLOCK-2 (Clinical)		
Name of Elective	Ultrasonography		
Location of hospital Lab or research facility	Department of Radiodiagnosis, NEIGRIHMS, Shillong.		
Name of internal preceptor(s)	Dr C. Daniala, Dr Donboklang Lynser, Dr. Gareth Yobel Lyngwa		
Name of external preceptor(s)	NA		
Learning objectives of elective	How to prepare for ultrasound whole abdomen How to know that patient is optimally prepared for the ultrasound eg. Fasting, taking water for stomach fluid distension and optimal bladder distension.		
Number of students that can be accommodated	5		
Prerequisites	Knowledge of indications and preparation for ultrasound examination Awareness on PC- PNDT		
List of activities of student participation	History taking, observe Ultrasound examination, awareness on PC-PNDT		
Learning resources	Guided learning from books, case based learning,		
Portfolio	Student has to note down history and indication To note down optimal bladder and bowel preparatioin To note down ultrasound examination results		
Logbook	Complete with signature of faculty and should be graded and meet Expectations		
Assessment	Formative assessment (attendance, daily activities, logbook submission) and certification of completion		
Comments	Students are expected to understand empathy and develop their communication skills		

Elective Block 2 (Clinical)		
Name of Block	BLOCK-2 (Clinical)	
Name of Elective	Radiography	
Location of hospital Lab or research facility	Department of Radiodiagnosis, NEIGRIHMS, Shillong.	
Name of internal preceptor(s)	Dr C. Daniala, Dr Donboklang Lynser, Dr. Gareth Yobel Lyngwa	
Name of external preceptor(s)	NA	
Learning objectives of	How to prepare for xray, abdomen, lumbar spine, IVU	
elective	To describe radiation safety measures in the radiology department	
Number of students that can be accommodated	5	
Prerequisites	Knowledge of indications for x-rays	
List of activities of student participation	History taking, observe x-ray examination, awareness on interaction of x-rays.	
Learning resources	Guided learning from books, case based learning,	
Portfolio	Student has to note down history and indication for x rays	
Logbook	Complete with signature of faculty and should be graded and meet Expectations	
Assessment	Formative assessment (attendance, daily activities, logbook submission) and certification of completion	
Comments	Students are expected to understand empathy and develop their communication skills	

### **Department of Surgical Oncology**

Elective Block 2 (Clinical)			
Name of Block	BLOCK-2 (Clinical)		
Name of Elective	Primer in Surgical Oncology		
Location of hospital Lab or research facility	Department of Surgical Oncology-OPD, wards and Operation Theatre		
Name of internal	Faculty in Surgical Oncology		
preceptor(s)			
Name of external			
preceptor(s)	NA		
Learning objectives of elective	<ol> <li>At the end of the elective the student would be able to:         <ol> <li>Evaluate the patients presenting with common cancers</li> <li>Describe the appropriate staging system for common cancers</li> </ol> </li> <li>Choose the various investigations needed for diagnosis and staging of common cancers</li> <li>Interpret the imaging and pathology reports of common cancers</li> <li>Describe the surgical principles involved in resection of common cancers</li> <li>Initiate the process of communicating grave diagnoses with patients</li> <li>Recognize the various adjuvant and neoadjuvant treatments offered for the common cancers</li> <li>Recall the various causes for the common cancers</li> </ol>		
Number of students that can be accommodated	2		
Prerequisites	Basic information pertaining to common cancers in NEIGRIHMS, Necessary vaccination		
List of activities of student participation	History taking, Clinical and Laboratory evaluation, Observation of procedures (surgical/diagnostic), patient counselling, participation in Multidisciplinary Meetings,		
Learning resources	Guided learning from books, case based learning, DOAP for outpatient procedures, observing procedures in Operation Theatre		
Portfolio	Student has to note down history and clinical findings and advise appropriate investigations for 3 cases observed in the OPD.  Student has to write down and analyze pathology reports of 1 operated patient		
Logbook	Complete with signature of faculty and should be graded to meet expectations (M)		
Assessment	Formative assessment (attendance, daily activities, logbook submission) and certification of completion for eligibility to appear in final MBBS examination		
Comments	Students are expected to understand empathy and develop their communication skills		

### Elective for the Department of Transfusion Medicine & Blood Centre, NEIGRIHMS

Name of Block	Blood Centre	
Name of Elective	Immunohematology laboratory	
Location of hospital lab or research lab	Department of Transfusion Medicine & Blood Centre, NEIGRIHMS	
Name of internal preceptor(s)	Dr Kh Memtombi Devi, Assistant Professor	
Name of external preceptor(s)	Nil	
Learning objectives of elective	1. To understand: i. ABO, Rh and minor blood group system. ii. Compatibility testing. iii. Antibody screening. 2. To demonstrate understanding of the clinical significance of the tests.	
Number of students that can be accumulated	3 nos.	
Prerequisites	uisites Necessary immunization ,knowledge of universal precautions	
List of activities of student participation	Student will work with the faculty posted in immunohematology lab and perform Pre transfusion testing- ABO, Rh system & minor blood grouping, coombs' test, antibody screening, cross matching.	
Learning resources	Handbook will be provided by the department.	
Portfolio	Student has to perform compatibility testing for two blood samples provided.	
Logbook	Complete signature of the faculty and will be graded.	
Assessment  Formative Attendance and viva voce Presentation in the department of the work noted in portfolio.		
Comments		

# **Department of Urology**

Sl. No	Name of Block	Block 2 (Clinical)
1	Name of Elective	Hematuria
2	Location of hospital Lab or research facility	Urology OPD & Ward
3	Name of internal preceptor (s)	Dr. S. L. Sailo
4	Name of external preceptor (s)	NA
5	Learning objectives of elective	Evaluation of heamaturia     Treatment of heamaturia
6	Number of students that can be accommodated	2
7	Prerequisites	Nil
8	List of activities of student participation	<ol> <li>History taking &amp; clinical examination</li> <li>Basic investigations</li> <li>Radiological investigations</li> <li>Cystoscopy examination</li> <li>Participation in ward rounds &amp; OPD</li> <li>Present two cases in department of urology</li> </ol>
9	Learning resources	Smith: Handbook of Urology
10	Portfolio	Case records of two patients till discharge
11	Logbook	Complete with signature of faculty and should be graded meet expectations (M)
12	Assessment	1. Attendance 2. Successful modification of received portfolios entries 3. Successful completion of the positive as certified in the logbook with a "meets expectations (M) grade".
13	Comments	Students are expected to understand empathy and develop their communication skills

Sl. No	Name of Block	Block 2 (Clinical)	
1	Name of Elective	Renal Stone disease	
2	Location of hospital Lab or research facility	Urology OPD & Ward	
3	Name of internal preceptor (s)	Dr. V. C. Wann	
4	Name of external preceptor (s)	NA	
5	Learning objectives of elective	<ol> <li>Evaluation of renal stone disease</li> <li>Treatment of renal stone disease</li> </ol>	
6	Number of students that can be accommodated	2	
7	Prerequisites	Nil	
8	List of activities of student participation	<ol> <li>History taking &amp; clinical examination</li> <li>Basic investigations</li> <li>Radiological investigations</li> <li>Cystoscopy examination</li> <li>Participation in ward rounds &amp; OPD</li> <li>Present two cases in department of urology</li> </ol>	
9	Learning resources	Smith: Handbook of Urology	
10	Portfolio	Case records of two patients till discharge	
11	Logbook	Complete with signature of faculty and should be graded meet expectations (M)	
12	Assessment	<ol> <li>Attendance.</li> <li>Successful modification of received portfolios entries.</li> <li>Successful completion of the positive as certified in the logbook with a "meets expectations (M) grade".</li> </ol>	
13	Comments	Students are expected to understand empathy and develop their communication skills	