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Department		Elective (Click hyperlink to go to details of learning experiences)	No. of Seats	Faculty In-charge	
Bl	Block – 1				
		Introduction to histology- Practical and Clinical approach	3	Faculty of Anatomy	
	Anatomy	Introduction to Medical genetics	3	Faculty of Anatomy	
1.		3D Virtual Dissection	2	Faculty of Anatomy	
		Introduction to Research Methodology (Literature Search & Reference Management)	3	Faculty of Anatomy	
		Clinical Chemistry - 1	3	Dr. Alice A Ruram	
2.	Biochemistry	Clinical Chemistry - 2	3	Dr. Happy Chutia	
		Virtual Autopsy	2	Faculty of Forensic Medicine	
3.	Forensic	Forensic Analytical Toxicology	2	Faculty of Forensic Medicine	
		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	
				Dr. John A Lyngdoh	
	Physiology	Study of perimetry & visual field in health & glaucoma	3	Dr. Rituparna Barooah	
4.		Study of ergography using Mosso's Ergography in adolescent and geriatric age group	3	Dr. John A Lyngdoh Dr. Rituparna Barooah	
				Dr. John A Lyngdoh	
		Study of stethography in health and respiratory disease	3	Dr. Rituparna Barooah	
	Pathology	Clinical Hematology - Analysis of Total leucocyte count (TLC) in patients of Chronic kidney Disease on Hemodialysis	1	Faculty of Pathology	
5.		<u>Clinical Hematology -</u> <u>Clinicopathological profile of Anemia in</u> <u>geriatric population in a tertiary care</u> institute	1	Faculty of Pathology	

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		Clinical Hematology - Hematological		
		parameters in diagnosed cases of Type II		
		Diabetes	1	Faculty of Pathology
		<u>Clinical Hematology -</u>		
		<u>Clinicopathological profile of eosinophila</u> in a tertiary care centre	1	Faculty of Pathology
		Clinical Hematology - Platelets counts in	1	raculty of ratiology
		patients with iron deficiency anemia		
		(IDA)	1	Faculty of Pathology
		<u>Dermatopathology</u>	2	Faculty of Pathology
		<u>Cytopathology</u>	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
-	Microbiology			Dr. A. B. Khyriem
6.	wherobiology	Clinical Microbiology	3	Dr. W. V. Lyngdoh
				Dr. C. J. Lyngdoh
		Research	2	Faculty of Community Medicine
		Community outreach	2	Faculty of Community Medicine
		Outbreak Investigation	1	Faculty of Community Medicine
		Health Education	1	Faculty of Community Medicine
7	Community Medicine			Faculty of Community
/.		School Health Programme	2	Medicine
		Integrated Child Development Services	2	Faculty of Community
		(ICDS) National Health Programma National	2	Medicine
		Tuberculosis Elimination Programme		Faculty of Community
		(NTEP)	2	Medicine
0		Oncology Research	2	Faculty of Radiation Oncology
0.		Discourse and all and a	6	
9.		Pharmacovigilance	0	Faculty of Pharmacology
10.	Surgical Oncology	Primer in Cancer Research	1	Faculty of Surgical Oncology
BI	ock - 2			1
1.	Surgical Oncology	Primer in Surgical Oncology	2	Faculty of Surgical Oncology
		Medicine Critical Care Unit	5	Dr. Iadarilang Tiewsoh
2.	General Medicine	<u>Haemodialysis</u>	3	Faculty of General Medicine
		DOTS	3	Faculty of General Medicine
	Ophthalmology	Optical Coherence Tomography (OCT)	2	Dr. Tanie Natung
3.		Ocular Biometry	2	Dr. Tanie Natung
		Refraction	2	Dr. Lanalyn Thangkhiew

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		Automated Static Perimetry (Humphrey		
		Visual Field Analysis)	2	Dr. Benjamin Nongrum
	Angesthesiolo			Dr. Nari M Lyngdoh
4.	gy &Critical	Airway	2	Dr. Rajani Thabah
	Care			
				Dr. Veena Sheshadri
		Developmental Disorders	3	Dr. Arvind Nongpiur
				Dr. Arvind Nongpiur
		Substance Use Disorders	3	
5	Psychiatry		5	
5.				
				Dr. Arvind Nongpiur
		Sleep Disorders	2	
		<u>Steep Disorders</u>	5	
				Dr. Suvamoy Chakraborty
		Endoscopies in ENT both rigid and	2	Dr. Abhijeet Bhatia
		fibreoptic	3 to 4	Dr. Vijay Nongpiur
6.	ENI			Dr. Arup Jyoti Baruah
		Emergency & its management	3 to 4	Dr. Suvamov Chakraborty
				Dr. Abhijeet Bhatja
				Dr. Zareen Lynrah
		Basic Neonatal Care & Lactation Support	2	Dr. Rosina Ksoo
		Pediatric Nephrology	2	Dr. Himesh Barman
7.	Pediatrics	Point of Care Quality Improvement		
		(POCQI) in Child Health	3	Dr. Himesh Barman
		Neonatal Intensive Care	2	Dr. Rosina Ksoo
8	Urology	<u>Hematuria</u>	2	Dr. S L Sailo
0.		Renal Stone Disease	2	Dr. V C Wan
9.	Transfusion	Immunohematology Laboratory	3	Dr. Kh Mentombi Devi
	& Blood Centre		-	
10.	Orthopaedics		2	
		Basic Rehabilitation of Amputees	3	Dr. Tashi G Khonglah
11.	Radiation Oncology	Radiation Oncology	2	Faculty of Radiation Oncology
	Radiology	Ultrasonography		Dr. C. Daniala
			5	Dr. Pranjal Phukan
12				Dr. Donboklang Lynser
12.				Dr. C Daniala
		Radiography	5	Dr. Pranjal Phukan
				Dr. Donboklang Lynser

Topics for Elective (Block 1 (Pre-Clinical)

<u>No:1</u>

Name of Block	Block 1 (Pre-Clinical)
Name of Elective	Introduction to histology: Practical and Clinical approach
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	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	1. 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
	4. Introduce to special staining (for cartilage,fat,nervous
	tissue)
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.

<u>No:2</u>

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
Name of External	
Preceptors	NA
Learning objectives of	1 Describe the inheritance natterns seen in families with
electives	heritable disease.
	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.
	E. Domonstrate an awareness of how numerical and
	5. Demonstrate an awareness of now numerical and structural chromosome abnormalities occur and the clinical
	syndromes which can result from these abnormalities
	syndromes when can result norm 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.
	0. Show awareness of common non Mondolian disease
	10. Understand the impact of pharmacogenetics
	11. Demonstrate awareness of strategies for the treatment

	of genetic disease.
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	
	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 constic information to the low nerson
	6. Communicate genetic information to the lay person.
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 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
	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	2
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	 Students will be introduced to basic research by: Framing a research question. Searching the relevant literature online in standard databases (PubMed) Brief introduction methodology & data collection Managing the references online using Software's (Zotero/ Mendeley)
Learning resources	 Learning under guidance of the faculty in-charge The students can select their topic of interest to start an individual project or can be a part of ongoing faculty projects. Handbooks will be provided for reference during/ at the end of the elective session.
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

Name of the Block	Block 1(laboratory services)
Name of the electives	Clinical chemistry -1
Location of the hospital lab or research facility	Clinical chemistry lab, First floor, NEIGRIHMS
Name of the internal preceptor(s)	Dr Alice A. Ruram
Name of the external preceptor	NA
Learning objective of the electives	 CLSI Order of draw of sample collection Understanding the pre analytical ,analytical and post analytical variables which may affect the test value Instruments-Understanding principles of fully automated clinical chemistry analyzers , ISE Analyzers, HbA1c analyzers , Importance of internal & external quality control Interpretation of test results, Recognizing the panic Value
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	 Students have to calculate the normal lab mean and SD for few parameters Students have to construct and interpret the Levey Jenning's chart for few parameters Students have to note down 2 cases with panic values in clinical chemistry lab
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

Name of the Block	Block 1(laboratory services)		
Name of the electives	Clinical chemistry -2		
Location of the hospital lab or research facility	Endocrine lab, First floor, NEIGRIHMS		
Name of the internal preceptor(s)	Dr Happy Chutia		
Name of the external preceptor	NA		
Learning objective of the electives	 Instruments-Understanding principles of fully automated Chemiluminescence and electrochemiluminescence system 		
	 Interpretation of test results, Recognizing the panic Value 		
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 work with residents in endocrine 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, Interpret the test results for various hormones ,Vitamin & tumor markers , Recognize the panic value		
Learning resources	Handbook provided by the department		
Portfolio	 Students have to calculate the normal lab mean and SD for few parameters Students have to construct and interpret the Levey Jenning's chart for few parameters 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 expectations (M)		
Assessment	Formative Attendance and case discussions and identifying laboratory errors Presentation in the department of the work noted in portfolio		
comments	NII		

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		

Elective Modules in Forensic Medicine and Toxicology

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	1. 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 for MBBS Curriculum (21-22 Batch)

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	1. 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.
	2 Reflection
Assessment	OSPE one minute preceptor demonstration and
	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
Name of internal preceptor(s)	Dr. Rituparna Barooah Dr. Shakthinag S Dr. Zaakiya Tasneem
Name of external preceptor (if any)	Faculty 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 this elective	4
Prerequisites for the elective	Elementary knowledge of Asana & Pranayamas.
Learning resources for students	Will be provided when enrolled
List of activities in which the student will participate	Posture correction. Explanation of anatomy & physiology ,record keeping
Portfolio entries required	Yes. Photographs
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 Shakti 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	 To do the test To recruit subjects of glaucoma 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 Zakıyya Tasneem
Name of external preceptor (if any)	None
Learning objectives of the elective	1. To demonstrate peripheral muscular strength
	1110 demonstate peripheral maseum suenga
Number of students that can be accommodated in	3
this elective	
Prerequisites for the elective	Exercise & muscle Physiology
Learning resources for students	To be provided by the faculty in charge
Learning resources for students	To be provided by the faculty in charge
List of activities in which the student will	1.Perform the test
participate	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	 To be able to perform the test To note the thoracic excursions in various clinical and physiological states.
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	 perform the test keep records
Portfolio entries required	Yes
Log book entry required	Yes
Assessment	 Demonstration OSPE
Other comments	Write a project Report

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	Pathology Faculty
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 can	1
be accommodated	
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.
diagraged areas of CKD	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
narticipation	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 electiveClinical HematologyLocation of the hospital lab or research facilityPathology Department, NEIGRIHMSTitle of research projectClinicopathological profile of anemia in geriatric population in a tertiary care instituteName of internal preceptor(s)Pathology FacultyName of external preceptor(s)NALearning objectives of elective/ objective of research projectClassify the morphological types of anemia Perform data collection and interpretation Analyse clinico-pathological profile of anemia in geriatric population
Location of the hospital lab or research facilityPathology Department, NEIGRIHMSTitle of research projectClinicopathological profile of anemia in geriatric population in a tertiary care instituteName of internal preceptor(s)Pathology FacultyName of external preceptor(s)NALearning objectives of elective/ objective of research projectClassify the morphological types of anemia Classify the severity of anemia Perform data collection and interpretation Analyse clinico-pathological profile of anemia in geriatric population
or research facilityTitle of research projectClinicopathological profile of anemia in geriatric population in a tertiary care instituteName of internal preceptor(s)Pathology FacultyName of external preceptor(s)NALearning objectives of elective/ objective of research projectClassify the morphological types of anemia Classify the severity of anemia Perform data collection and interpretation Analyse clinico-pathological profile of anemia in geriatric population
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research project Perform data collection and interpretation Analyse clinico-pathological profile of anemia in geriatric population
Analyse clinico-pathological profile of anemia in geriatric population
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
Derinberal blood smoor interpretation
Peripheral blood smear interpretation
Interpretation of CBC reports
hematological reports
Learning resources SOP provided by the department
Portfolio Maintain a master chart / data shoot
Logbook Complete with signature of faculty and should be graded
Logbook Complete with signature of faculty and should be graded
Research project Complete the project within the allotted time
Assessment Eormative
Assessment I Unitative
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
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	
be accommodated	
Prerequisites	Knowledge of normal and abnormal haematological
	parameters and their clinical significance
	Knowledge of etio-pathogenesis of Type II DIVI and
	haematological changes that can occur
List of activitios of student	Independently perform Leichman stain and perform TLC
narticipation	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	Pathology Department, NEIGRIHMS
facility	
Title of research project	Clinicopathological profile of eosinophilia in
	a tertiary care centre
Name of internal preceptor(s)	Pathology Faculty
Name of external preceptor(s)	NA
Learning objectives of elective/ objective of	Grading of eosinophilia
research project	To study the clinicopathological profile of patients with eosinophilia
Number of students that can be accommodated	1
Prerequisites	To have a knowledge of CBC narameters
	Causes of eosinophilia
	Calculation of Absolute Fosinophilic 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
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	Platelet counts in patients with Iron deficiency
	anemia (IDA)
Name of internal preceptor(s)	Pathology Faculty
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 bematology residents
narticipation	and technicians
	Independently perform Leishman stain and perform
	nlatelet 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

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 name	
Name of external preceptor(s)	NA	
Learning objectives of elective	 To become proficient in the gross examination, description and processing of cutaneous specimens To be able to recognize and discuss a wide variety of inflammatory and neoplastic conditions 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 	
Number of students that can be accommodate	2	
Prerequisites	Knowledge of universal precautions Knowledge of common skin conditions	
List of activities of student participation	 The students will Work closely with the pathology residents and faculty during sign-out Attend weekly consensus conferences and slide seminars Perform tissue processing under supervision Perform the routine histochemical stain, one special stain and immunohistochemistry procedure 	
Learning resources	 Introductory lectures on dermatopathology by residents and faculty Lever's Histopathology of the Skin Weedon's Skin Pathology 	
Portfolio	 Student has to write down observations of all types of skin samples processed in histopathology laboratory Student will present one case each of inflammatory and neoplastic skin conditions at the end of elective 	
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	

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

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)	Pathology Faculty
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)	Pathology Faculty
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 ofstudents that can be accommodate	4
Prerequisites	Completed postings in Obstetrics & Gyneacology
List of activities of student participation	Student will work along with the Resident posted in Obs and Gynea and 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

Pathology: Role Of Anticaogulants in Hematology and related lab services

Name of block	PLOCK L d L
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	
	 Collect sample for hematology investigation from OPD patients To demonstrate understanding of colour coding of vials / vacutainers To demonstrate knowledge of why a particular anticoagulant or absence of it is suitable for particular test. Describe mode of action of various anticoagulant Pre-analytical, Analytical and post analytical variables in sample collection
Number of students that can be accommodate	5
Prerequisites	Completed 1 st 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 objectives above
Logbook	Complete with signature of faculty and should be graded meet expectations
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

ELECTIVES

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)	 Dr. A.B. Khyriem, Additional Professor Dr. W.V. Lyngdoh, Additional Professor Dr. C.J. Lyngdoh, Associate Professor
Name of external preceptor	NA
Learning objectives of elective	 To enumerate the samples received in Microbiology laboratory. To discuss the role of microbial investigations in diagnosis of infectious diseases. To interpret the microbiological test results.
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	 Participate in laboratory activities including sample processing and reporting. Perform Gram stain, AFB staining and routine stool microscopy. Interpret the antimicrobial susceptibility testing.
Learning resources	Handbook from the Department.
Portfolio entries required	Daily work book entriesStaining procedures done
Log book entry	Satisfactory completion of posting with signature of faculty
Assessment	 Attendance Formative Successful completion of posting as certified in log book with a "meets expectation" 'M' grade
Comments	

Elective module (Community Medicine)

Module 1

Name of block	Block 1 (Community Medicine)
Name of elective	Research
Location of health lab or research facility	Community/ Medical College
Name of internal preceptor	
Name of external preceptor	
Learning objectives	 To make a concept note and proposal for the research Obtaining clearance from the scientific and ethics committee To collect data as prescribed in the proposal To analyse and document the data and the results
	5. Report writing and dissemination of information
Number of the students that can be	Two (2)
accommodate in this elective	
Prerequisites for elective	Basic course in epidemiology, Good clinical practice
List of activities of student participation	 Working collaboratively with the mentor in the preparation of the research proposal, data collection and analysis of results along with the documentation/ report writing Seek help from the statistician for the statistical analysis Participation in the scientific and ethical committee meetings, as and when required Presentation of the report in a

	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

Module 2

Name of Block	Block 1 (Community Medicine)
Name of Elective	Community Outreach
Location of hospital Lab or research	Urban Health Training Centre, Department of
facility	Community Medicine
Name of internal preceptor(s)	
Name of external preceptor	
Learning objectives of elective	1. To provide primary care to patients in a
	resource limited setting under
	supervision
	2. To function as a member of a health
	care team in a primary care centre
	3. To participate in health outreach
	activities of a primary care centre
Number of students that can be	Two (2)
accommodated in this elective	
Prerequisites for elective	Required immunisations to be taken, First aid
	kit, basic training in common ailments and
	essential medicines
List of activities of student participation	essential medicines 1. Provide patient care under the
List of activities of student participation	essential medicines Provide patient care under the supervision of a community clinic
List of activities of student participation	essential medicines Provide patient care under the supervision of a community clinic preceptor
List of activities of student participation	 essential medicines 1. Provide patient care under the supervision of a community clinic preceptor 2. Assist in common procedures in a
List of activities of student participation	 essential medicines 1. Provide patient care under the supervision of a community clinic preceptor 2. Assist in common procedures in a community care clinic
List of activities of student participation	 essential medicines 1. Provide patient care under the supervision of a community clinic preceptor 2. Assist in common procedures in a community care clinic 3. Counsel patients in their own language
List of activities of student participation	 essential medicines 1. Provide patient care under the supervision of a community clinic preceptor 2. Assist in common procedures in a community care clinic 3. Counsel patients in their own language 4. Participate in national health care
List of activities of student participation	 essential medicines 1. Provide patient care under the supervision of a community clinic preceptor 2. Assist in common procedures in a community care clinic 3. Counsel patients in their own language 4. Participate in national health care programs offered through the UHTC
List of activities of student participation	 essential medicines 1. Provide patient care under the supervision of a community clinic preceptor 2. Assist in common procedures in a community care clinic 3. Counsel patients in their own language 4. Participate in national health care programs offered through the UHTC 5. Participate in team meetings of the
List of activities of student participation	 essential medicines 1. Provide patient care under the supervision of a community clinic preceptor 2. Assist in common procedures in a community care clinic 3. Counsel patients in their own language 4. Participate in national health care programs offered through the UHTC 5. Participate in team meetings of the UHTC
List of activities of student participation	 essential medicines 1. Provide patient care under the supervision of a community clinic preceptor 2. Assist in common procedures in a community care clinic 3. Counsel patients in their own language 4. Participate in national health care programs offered through the UHTC 5. Participate in team meetings of the UHTC 6. Participate in Outreach Programs
List of activities of student participation	 essential medicines 1. Provide patient care under the supervision of a community clinic preceptor 2. Assist in common procedures in a community care clinic 3. Counsel patients in their own language 4. Participate in national health care programs offered through the UHTC 5. Participate in team meetings of the UHTC 6. Participate in Outreach Programs (Health Education, Immunisation, etc)
List of activities of student participation	 essential medicines 1. Provide patient care under the supervision of a community clinic preceptor 2. Assist in common procedures in a community care clinic 3. Counsel patients in their own language 4. Participate in national health care programs offered through the UHTC 5. Participate in team meetings of the UHTC 6. Participate in Outreach Programs (Health Education, Immunisation, etc) 1. Oxford Textbook of Public Health

	3. Park's Textbook of Preventive and
	Social Medicine
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
	2. Log book entry
	3. Periodic formative assessment of the
	clinical skills and summative
	assessment at the end of the module

Module 3

Name of Block	Block 1 (Community Medicine)
Name of Elective	Outbreak Investigation
Location of hospital Lab or research	IDSP Office, NHM
facility	
Name of internal preceptor(s)	
Name of external preceptor	
Learning objectives of elective	1. To understand the ten steps involved in outbreak investigation
	2. To function as a member of the IDSP team
	3. To understand the flow of information from the peripheral level to the state
	level
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
	 Supporting the project staffs in the day- to-day activities
Learning Resources	1. Oxford Textbook of Public Health
	2. Park's Textbook of Preventive and
	Social Medicine
	3. 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
------------	---------------------------------------
	2. Log book entry
	3. 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)	Faculty of the Department of Community Medicine
Name of external preceptor(s)	NA
Learning objectives of elective	At the end of the module students are able to:
	 Demonstrate effective communication skills for health education for an individual and a group Determine the appropriate health communication method for individual, group and mass approach Prepare appropriate content of health education for different age-groups and disease conditions Identify appropriate audio-visual aids for individual and group health education Plan and conduct health education sessions for an individual and a group Prepare health education material for mass Media
Number of students that can be	One (1)
accommodated	
Pre-requisites	1. Knowledge of the population profile of the 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
participation	practice 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	Material 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
Name of Elective	School Health Programme
Location of hospital Lab or research facility	Government schools in Shillong
Name of internal preceptor(s)	
Name of external preceptor if applicable	
Learning objectives of elective	1) Conducting a health screening
	program
	2) Health and Nutrition of school going
	children
	3) Diseases/deficiencies in children
	4) 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

Name of Block	Block 1
Name of Elective	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)	
Name of external preceptor if applicable	
Learning objectives of elective	1) Functioning of an Anganwadi
	2) Programmatic functioning of ICDS
	3) Team works and leadership qualities
	4) Monitoring and evaluation of a
	health programme
Number of students that can be	Two (2)
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
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 Block	Block 1
Name of Elective	National Health Programme – National
	Tuberculosis Elimination Programme (NTEP)
Location of hospital Lab or research facility	DOTS Clinic, NEIGHRIHMS
Name of internal preceptor(s)	
Name of external preceptor if applicable	
Learning objectives of elective	1. Diagnostic algorithm for TB
	2. Management and treatment of TB patients
	3. TB Preventive Therapy
	4. Programmatic functioning of NTEP
Number of students that can be	2 (Two)
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
	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 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.

Elective BLOCK 1 (Pharmacology)

Name of the block	Block I (Pharmacology)
Name of elective	Pharmacovigilance
Location of the hospital lab or research facility	Active surveillance of adverse drug reactions (ADRs) in the department of Medicine. 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)	Deprtment 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 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 accommodated	3 students per group (max. 2 groups) = 6
Prerequisites	Knowledge of different terminologies of Phar, acology. 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 participation	Active surveillance of ADRs in the medicine ward. Selection of important ADRs and gathering of information on 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 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

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
	Describe the various methodologies involved in cancer
	research
	Recognize the various steps involved in informed consent
	Perform data collection for ongoing studios in the
	department
	Perform literature search for a given research question
	Analyse the database of surgical oncology natients
	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	1
Prerequisites	Knowledge of the basics of research methodology
	(Preferable) Lapton 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.
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.

Elective Block 2 (Clinical)	
Name of Block	BLOCK-2 (Clinical)
Name of Elective	Primer in Surgical Oncology
Location of hospital Lab or	Department of Surgical Oncology-OPD, wards and Operation
research facility	Theatre
Name of internal	Faculty in Surgical Oncology
preceptor(s)	
Name of external	
preceptor(s)	NA
Learning objectives of elective	 At the end of the elective the student would be able to: Evaluate the patients presenting with common cancers Describe the appropriate staging system for common cancers Choose the various investigations needed for diagnosis and staging of common cancers Interpret the imaging and pathology reports of common cancers Describe the surgical principles involved in resection of common cancers Initiate the process of communicating grave diagnoses with patients Recognize the various adjuvant and neoadjuvant treatments offered for the common cancers Recall the various causes for the common cancers
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 Block 2 (Clinical)	
Name of Block	BLOCK-2 (Clinical)
Name of Elective	Medicine Critical Care Unit
Location of hospital Lab or	2 nd Floor Main hospital building
research facility	
Name of internal	Dr IadarilangTiewsoh
preceptor(s)	
Name of external	
preceptor(s)	NA
Learning objectives of	Student should understand the important medical interventions
elective	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	5
Droroquisitos	What is the numero of Intensive care medicine
Prerequisites	What type of medical and surgical cases does the intensive care
	unit caters to
List of activities of student	Study the cases admitted to ICU
participation	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
	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)	
Name of external preceptor(s)	NA
Learning objectives of	Describe the indications of haemodialysis
elective	Describe the contraindications of haemodialysis
	Perform ABG interpretation
Number of students that can	
he accommodated	5
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)	
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	3
be accommodated	
Prerequisites	Knowledge of Tuberculosis and Extrapulmonary tuberculosis
List of activities of student	History taking, Clinical and Laboratory evaluation, Patient
participation	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

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	 i) Evaluation of central macular thickness of Retina of common retinal conditions causing macular edema/other macular changes by OCT. ii) Evaluation of optic nerve head in cases of various Glaucomas by OCT. iii) To counsel patients with retinal or glaucoma diseases.
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	 i) To observe optical coherence tomography being carried out by optometrists. ii) Discuss common retinal and glaucoma cases with resident doctors and Faculty members. iii) Present at least 3 fully worked up cases during the departmental seminar with minimal basic statistics with conclusion.
Learning resources	 i) Kanski's Clinical Ophthalmology ii) Retinal Imaging – Pradeep Venkatesh iii) Atlas of Ocular Tomography – Vishali Gupta
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	 i) To observe biometry being done by the optometrists. ii) To calculate the correct IOL formulae for patients undergoing cataract surgeries. iii) To learn the various formulae for IOL power calculation. iv) To learn various techniques for IOL power measurement.
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	 i) Participate in OPD rounds. ii) Participate in patient counseling and education. iii) Calculate the correct IOL formulae for the patients undergoing cataract surgery. iv) Learn syringing and Schiotz Tonometry. v) Present at least 3 fully worked up cases during the departmental seminar with minimal basic statistics with conclusion.
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, Associate Professor
Name of external preceptor(s)	Nil
Learning objectives of elective	 i) To know the refractive errors of patients presenting with diminished vision. ii) To observe refraction being carried out by optometrists. iii) To learn automated refraction and observe manual retinoscopy. iv) To learn about different types of refractive errors.
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	 i) Participate in OPD rounds. ii) Observe optometrists doing retinoscopy, automated refraction. iii) Note down different types of refractions. iv) Present at least 5 cases of fully worked up refraction during the departmental seminars with minimal basic statistics with conclusion.
Learning resources	i) Duke Elder's Refraction.ii) AAO BCSC's Clinical Optics, Section III.
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	 i) To learn about the automated static perimetry. ii) To observe optometrists carrying out the automated perimetry. iii) To interpret the normal HFA charts. iv) To interpret various abnormal HFA charts. v) To present at least 3 HFA charts.
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	i) Participate in the visual field charting with optometrists.ii) Present at least 5 abnormal HFA chartings in the departmental seminars with minimal basic statistics with conclusion.
Learning resources	i) Kanski's Clinical Ophthalmologyii) 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	

Electives

Name of Block	Block 2 (Clinical)
Name of Elective	Airway
Location of hospital lab or research facility	Pre- Operative Area & OT
Name of Internal preceptor (s)	1. Dr. Nari M Lyngdoh
	2. Dr. Rajani Thabah
	3. Dr. Veena Sheshadri
Name of external preceptor (s)	NA
Learning objectives of elective	Airway Assessment
Number of student that can be accommodate	2
Pre- requisites	1. Define of Airway
_	2. Airway assessment methods for difficult mask
	ventilation
	3. Airway assessment methods for difficult intubation
List of activities of student	1. History taking
participation	2. Clinical examination
Learning resources	Guided learning from books, case based learning, DOAP for airway assessment.
Portfolio	1. Student has to write down history for four cases
	observing in Pre- Operative area
	2. Student will co-relate preoperative airway
	it down.
Logbook	1. Complete with signature of faculty and should be
6	graded meet expectations (M)
Assessment	1. Attendance
	2. Daily activities
	3. Logbook submission & certification of
	completion for eligibility to appear in Final
	MBBS examination

Elective Block 2 (Clinical)	
Name of Block	BLOCK-2 (Clinical)
Name of Elective	Developmental Disorders
Location of hospital Lab or research facility	Department of Psychiatry, NEIGRIHMS
Name of internal preceptor(s)	Dr. Arvind Nongpiur; Ms. Kimberly Syiem
Name of external preceptor(s)	NA
Learning objectives of elective	Identification of developmental disorders Assessment tools required for developmental disorders Identifying the modalities of treatment available
Number of students that can be accommodated	3
Prerequisites	Definition, types of developmental 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 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 and develop their communication skills

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. Arvind Nongpiur; Dr. Amit Kumar;
	Dr. Thejus kumar; Ms. Kimberly Syiem
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	3
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	Sleep Disorders
Location of hospital Lab or research facility	Department of Psychiatry, NEIGRIHMS
Name of internal preceptor(s)	Dr. Arvind Nongpiur; Ms. Kimberly Syiem Dr Thejus Kumar, Dr Amit Kumar
Name of external preceptor(s)	NA
Learning objectives of elective	Identification of sleep disorders Understanding relationship of sleep disorders with co morbid Mental and Physical Illness.
Number of students that can be accommodated	3
Prerequisites	Definition, physiology of Sleep
List of activities of student participation	History taking, Clinical and Laboratory evaluation, Psychological evaluation
Learning resources	Guided learning from books, Case based 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 Sleep disorders, observe evaluations and interventions. To provide sleep hygiene measures & Psychoeducate for 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 eligibilityto appear in final MBBS examination
Comments	Students are expected to understand empathy and develop their communication skills

Department of ENT, NEIGRIHMS.

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.	
Location of hospital Lab	Department of FNT/ 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	
Name of external	NA	
Learning objectives of	All types of endoscopies	
elective	An types of endoscopies	
Number of students that	3-4	
can be accommodate		
Prerequisites	Definition, Pre and Post-Operative care, Procedure,	
	Identification of Instruments, care, complications and	
	documentation.	
List of activities of student	History taking Clinical and Laboratory evaluation Radiological	
participation	evaluation.	
I I I I I I I I I I I I I I I I I I I		
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.	
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	

Elective Block 2 (Clinical)		
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	Dr. Suvamoy Chakraborty, Dr. Abhijeet Bhatia, Dr. Zareen	
preceptor(s)	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.	

Elective Block 2 (Clinical)		
Name of Block	BLOCK-2 (Clinical)	
Name of Elective	Basic neonatal care and Lactation support	
Location of hospital Lab or research facility	Infertility clinic , Department of OBGYN , Intra Uterine Insemination (IUI) lab, Assisted Reproductive Technology (ART) lab	
Name of internal preceptor(s)	Dr Rosina	
Name of external preceptor(s)	NA	
Learning objectives of elective	Describe basic care of the newborn in the hospital and at home Describe common problems of lactation Describe steps to support lactation and troubleshoot problems	
Number of students that can be accommodated	2	
Prerequisites	Basic neonatal care and physiology of lactation	
List of activities of student participation	History taking, attends rounds, follow up mother baby duo, identify 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)	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	Describe steps of POCQI methodology	
elective	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 th 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	

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	 History taking & clinical examination Basic investigations Radiological investigations Cystoscopy examination Participation in ward rounds & OPD Present two cases in department of urology
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	 Attendance Successful modification of received portfolios entries 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	 Evaluation of renal stone disease Treatment of renal stone disease
6	Number of students that can be accommodated	2
7	Prerequisites	Nil
8	List of activities of student participation	 History taking & clinical examination Basic investigations Radiological investigations Cystoscopy examination Participation in ward rounds & OPD Present two cases in department of urology
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	 Attendance. Successful modification of received portfolios entries. 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

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	 To understand: ABO, Rh and minor blood group system. Compatibility testing. Antibody screening. To demonstrate understanding of the clinical significance of the tests.
Number of students that can be accumulated	3 nos.
Prerequisites	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	

Elective Block 2 (Clinical)	
Elective block 2 (Chinear)	
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)	Dr. Tashi G. Khonglah
Name of External Receptor (s)	N.A.
	i) Understand various topics of amputation
	ii) Understand common problems of
Learning Ohio diana of the dian	amputations
Learning Objectives of elective	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
	(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.
	Assignment on a case to be submitted by the
Portfolio	student.
	Concept with signature of faculty and P & O
Log Book	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 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	2	
be accommodated		
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	
	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	
	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	

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 Pranjal Phukan, Dr Donboklang Lynser,	
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 Pranjal Phukan, Dr Donboklang Lynser,
Name of external preceptor(s)	NA
Learning objectives of elective	How to prepare for xray, abdomen, lumbar spine, IVU 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