Name of the block	Block 1 Pathology
Name of the elective PATH1	Clinicocytological correlation of common thyroid lesions
Location of the laboratory	FNAC clinic,NMCH
Internal Preceptor	Dr Jilsa S
External Preceptor	-
Learning objectives	1.To learn FNA procedure 2.To learn pap staining procedure 3.To correlate clinical and cytological findings to make a diagnosis 4.To understand the categories of Bethesda classification of thyroid lesions
No. of students	2
Prerequisites	Students should have basic knowledge of pathology of thyroid diseases,clinical presentation and examination of thyroid lesions
Learning resources	Robbins and Cotrans Pathologic Basis of Diseases,Orell's cytology,Bethesda thyroid cytology
List of activities	1.Observe and assist FNA procedure 2. Assist the technician in pap staining 3. To observe cytological reporting of smears and categorising the lesions based on Bethesda classification 4.Correlate clinical and cytological findings to make a diagnosis
Portfolio entries	1. Complete case history and investigation including FNAC diagnosis of 1 patient per day.

	2. FNAC procedure 3. Pap staining procedure 4. Bethesda classification
Logbook entries	Descriptive account of activity on daily basis
Assessment	Overall grading based on activities,portfolio,logbook,attendance and presentation

Name of the block	Block 1 – Pathology
Name of the elective PATH2	Analysis of RBC histograms
Location of the laboratory	Clinical Pathology Lab , Central Lab
Internal preceptor	Dr.Anjit U
External Preceptor	
Learning Objectives	To learn the principles of Automated blood counting instruments List the different parameters in 3 part and five part analysers Interpret the different parameters of RBCs, WBC and Platelets given Analysis of RBC histograms of various haematological conditions Learn about flagging in values given and correlation with Peripheral smear findings
No. Of Students	2
Prerequisites	Students should know the normal values of the different parameters They should know the conditions causing changes in the parameters
Learning Resources	Dacies And Lewis Text book of Practical Hematology ABC of CBC
List of activities	In the study period 1 Observe the sample collection and entry in the computer system 2 observe the procedures in lab 3.Study a normal histogram 4. Interpret atleast 30 CBC values along with its RBC histogram 5.Correlate RBC histogram with clinical picture 6.To identify morphological type of anemia by interpreting histogram

Portfolio entries	The principles of Automated blood counting instruments The reported parameters in 3 part and five part analysers The different parameters of RBCs, WBC and Platelets given RBC Histograms of common anemias
Logbook Entries	List the cases analysed and its interpretation including histogram Record the peripheral smear findings in 5 abnormal CBC results Record atleast 5 RBC abnormalities
Assessment	Presentation on utility of RBC histograms. Assignments to be submitted after 2 weeks Overall grading based on activities,portfolio,logbook,attendance and presentation

Name of the block	Block 1- Pathology
Name of the elective PATH3	Peripheral smear preparation, staining,reporting and correlation in anemias
Location of the laboratory	Clinical pathology lab,Central lab
Internal Preceptor	Dr.Nisha M Das
External Preceptor	-
Learning objectives	1. To prepare and stain a peripheral smear from the blood sample received in the clinical pathology lab. 2.Interpretation of Peripheral smear
No. of students	2
Prerequisites	Student should be able to prepare an ideal smear with maximum 2 attempts and stain the smear from a blood sample received in the lab.
Learning resources	Dacie and Lewis Practical Hematology
List of activities	1. Prepare a peripheral smear 2. Stain the smear 3. Reporting of the smear 4. Correlation with CBC findings
Portfolio entries	1.Peripheral smear preparation and staining procedure 2.Peripheral smear reporting format in anemia

	3.Reporting of 10 cases of anemia
Logbook entries	List of patients whose peripheral smear was done with diagnosis All daily activities
Assessment	Overall grading based on activities,portfolio,logbook, attendance and presentation

Name of the block	Block 1 Pathology
Name of the elective PATH4	Clinicopathological study of Breast Carcinoma including Immunohistochemistry
Location of the laboratory	Histopathology lab,IHC lab,NMCH
Internal Preceptor	Dr Suma MT
External Preceptor	-
Learning objectives	1. To learn all steps starting from reception of specimens to reporting of 10 breast carcinoma cases 2.To learn morphological(gross and microscopy) findings of breast carcinoma 3.To correlate clinical ,radiological and histopathological findings . 4.To record the histologic types,grades and staging breast carcinoma 5.To record immunohistochemical findings in 10 cases of breast carcinoma
No. of students	2
Prerequisites	Students should have basic knowledge of pathology of breast carcinoma, radiological findings and immunohistochemical markers used in breast carcinoma
Learning resources	Robbins and Cotrans Pathologic Basis of Diseases,Bancroft's theory and practice of histological techniques

List of activities	1. Observe grossing of Mastectomy specimens. 2. Observe processing and H & E staining of tissue sections 3.Observe Immunohistochemistry procedure 4. To observe and record morphological findings of 10 cases of Breast carcinoma. 5.Correlate clinical ,radiological and Pathological findings 6. Record Immunohistochemical findings in 10 cases of breast carcinoma
Portfolio entries	1. Complete case history and investigation of 10 cases of Breast carcinoma 2. Processing & H & E staining procedure 3. Interpretation of Immunohistochemical markers in breast carcinoma 4. Gross and Microscopy of 10 cases of breast carcinoma 5. Immunohistochemical findings in 10 cases of breast carcinoma
Logbook entries	Descriptive account of activity on daily basis

Assessment	Overall grading based on activities,portfolio,logbook,attendance and presentation

Name of the block	Block 1 Pathology
Name of the elective PATH5	Clinicopathological correlation of common thyroid disorders
Location of the laboratory	Histopathology lab,NMCH
Internal Preceptor	Dr Freena Rose
External Preceptor	-
Learning objectives	1.To learn all steps starting from reception of specimens to reporting of Thyroid lesions 2.To learn morphological(gross and microscopy) findings of common thyroid lesions 3.To correlate clinical and histopathological findings .
No. of students	2
Prerequisites	Students should have basic knowledge of pathology of thyroid diseases ,clinical presentation and radiological findings
Learning resources	Robbins and Cotrans Pathologic Basis of Diseases,
List of activities	1.Observe grossing of thyroidectomy specimens. 2. Observe processing and H & E staining of tissue sections 3. To observe and record morphological findings of 10 cases of thyroid lesions. 4.Correlate clinical ,radiological and Pathological findings

Portfolio entries	1. Complete case history and investigation of 10 cases of thyroid lesions 2. Processing & H & E staining procedure 3. Gross and Microscopy of 10 cases of thyroid lesions
Logbook entries	Descriptive account of activity on daily basis
Assessment	Overall grading based on activities,portfolio,logbook,attendance and presentation