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IMPLEMENTATION OF ELECTIVES

ELECTIVES POSTING – 2021 BATCH

(Date: 17^h March 2025 to 31st March 2025)

BLOCK 2

DEPARTMENT OF GENERAL MEDICINE

ELECTIVE MODULE: DIABETES MELLITUS

CODE: Med 01

Number of student - 10

Name of Block	Block 2
Name of Elective	Diabetes Mellitus
Learning objectives of the elective	<ol style="list-style-type: none">1. To describe patho-physiology and classification of diabetes2. To describe clinical features of diabetes3. To describe laboratory investigations and complications of diabetes4. To describe non pharmacological & pharmacological management of Diabetes
Prerequisites for the elective	<ol style="list-style-type: none">1. COVID Vaccination
Learning resources for students	<ol style="list-style-type: none">1. Davidson's principles and practice of Medicine 23rd edition2. Harrison's principles of Internal Medicine 21st edition3. API Textbook of medicine
List of activities in which the student will participate	<ol style="list-style-type: none">1. Self-directed learning2. Syndicate seminar3. Case based discussion4. Group discussion5. Bed-side clinics6. Participate in OPD and IPD rounds7. Present at least two cases that are fully worked up in the teaching session8. Participate in patient education and multidisciplinary team meetings
Log book entry required	Yes
Assessment	<ol style="list-style-type: none">1. Continuous assessment in 15 days ---- written text at end2. Logbook3. MCQ test

DEPARTMENT OF GENERAL MEDICINE

ELECTIVE MODULE: CEREBROVASCULAR ACCIDENT / STROKE

CODE: Med 02**Number of student – 10**

Name of Block	Block 2
Name of Elective	Cerebrovascular accident / Stroke
Learning objectives of electives	1)To function as a part of a team for screening programme for Cerebrovascular accident 2)To be able to identify patients of Cerebrovascular accident 3)To be able to approach and advice investigation for common causes of Cerebrovascular accident 4)To understand the Principles of Management of Cerebrovascular accident 5)To function as counsellor for prevention and Treatment of Cerebrovascular accident
Prerequisite for elective	Must have received necessary immunisations
List of activities of student participation	1)participate in OPD, IPD rounds/MICU/Neurosurgery Wards physiotherapy; speech therapy 2)Participate in History taking and examination of a patient with Cerebrovascular accident 3)Participate in Teaching Session of Department 4)Participate in planning investigation and treatment of Cerebrovascular accident affected patients 5)Present at least Two cases fully worked up in the teaching session 6)To Observe Procedure of Neuro Imaging 7)Participate in Discussion about analysis of CT scan and MRI imaging 8)To observe management byphysiotherapy, Nursing care & speech therapy etc.
Learning Resources	Davidson’s Principles and Practice of Medicine, Hutchinson’s Clinical Methods. Harrison principle of Medicine API text book of Medicine
Portfolio entries required	Assignments provided Two worked up case records that have been presented Summary about clinical presentation, Examination in case of Cerebrovascular accident
Log book entry required	Satisfactory completion of posting by a preceptor with a “meets expectation ‘M’ grade”
Assessment	Attendance Participation in OPD, IPD Radiology Departments rounds Presentation of worked up cases, Documentation of attendance and required portfolio and log book entries
Other comments	

Department of General Surgery

ELECTIVE MODULE: ASSESSMENT & MANAGEMENT OF HEAD INJURY

Code – Surg 01

Number of Students - 10

Name of Electives	Assessment & Management of Head Injury
Location	Emergency dept., ICU, Operation Theater
Pre requisite of Elective	Patients admitted with Head injury
Learning Resource	Belly & Loves Text book of General Surgery Text book of Neuro Anatomy by Mahapatra Web search
List of activities student camp participate	<ol style="list-style-type: none">1. History taking2. Clinical Examination3. Assist in Management4. Assist in surgery5. Communication skills
Documentation in portfolio	5 cases
Logbook entries	
Assessment	Percentage of attendance Case presentation Viva voce
Feed Back	

Department of General Surgery

ELECTIVE MODULE: COLONOSCOPY

Code – Surg 02

Number of Students - 10

Name of Electives	Colonoscopy
Learning Objective	To learn basic concepts of colonoscopy
Pre-requisite of Elective	Patients
Learning Resource	1) Practical Gastrointestinal Endoscopy(The fundamentals) by Cotton and Williams 2) Atlas of Endoscopy with Narrow band imaging, Springer
List of Activities students can participate	1) History taking 2)Communication skills 3) Hands on training
Documentation in portfolio	5 Cases
Logbook entries	
Assessment	1) Percentage of Attendance 2) Viva voice
Feedback	

Department of Obstetrics and Gynaecology

ELECTIVE MODULE: REPRODUCTIVE MEDICINE

Code- OBGY 01

Number of Students – 10

Name of Block	Block 2
Name of Elective	Reproductive Medicine
Learning Objectives of Elective	1. To understand the physiology of reproduction & approach to an infertile couple. 2. To counsel the couple with infertility under supervision. 3. To understand the available treatment options for infertile couple.
Prerequisites for elective	Hepatitis B and Covid Vaccination
List of activities of student participation	1. Participation in OP & IP rounds. 2. Participation in teaching sessions of the department. 3. Present two cases during teaching session. 4. Participate in patient education.
Learning Resources	Speroff's endocrinology Textbook of Gynecology- D.C. Dutta
Portfolio entries required	Documentation of experience of learning as reflection Case presentation
Log book entry required	Minimum 2 case entries with full evaluation and treatment.
Assessment	Attendance – 75% is compulsory Formative: Case Viva Logbook & Portfolio entry complete

Department of Obstetrics and Gynaecology

ELECTIVE MODULE: GYN ONCOLOGY

Code- OBGY 02

Number of Students - 10

Name of Block	Block 2
Name of Elective	Gyn Oncology
Learning Objectives of Elective	<ol style="list-style-type: none">1. Understand risk factors, clinical presentation of various gynecological cancers.2. To learn about various screening methods for Carcinoma cervix3. To learn and demonstrate about pap's smear procedure under supervision.4. To understand the approach in a patient with Abnormal Pap's report.
Prerequisites for elective	Hepatitis B and Covid Vaccination
List of activities of student participation	<ol style="list-style-type: none">1. Participation in OP & IP rounds.2. Participation in teaching sessions of the department.3. Present two cases during teaching session.4. Participate in patient education
Learning Resources	Novak's Gynecology Textbook of Gynecology- D. C. Dutta
Portfolio entries required	Documentation of experience of learning as reflection Case presentation
Log book entry required	Minimum 2 case entries with full workup and treatment.
Assessment	Attendance – 75% is compulsory Formative: Demonstrate the pap' s smear technique under supervision Logbook & Portfolio entry complete

Department of Pediatrics

ELECTIVE MODULE: NUTRITION AND BREASTFEEDING

Code – Paeds 01

Number of students –10

Name of Block	Block 2
Name of Elective	Nutrition and Breastfeeding
Location of hospital Lab or research facility	LMH hospital OPD no 3, Pediatric ward no. 17,18,19, PNC ward
Learning objectives	<ol style="list-style-type: none">1.To enhance the capabilities of a mother to take care of her infants, specially regarding breastfeeding and complementary feeding needs, right from pregnancy till the child is 2 years of age and help her solve most of the problems.2. To advise on mothers issues related to mother's nutrition during pregnancy and lactation, nutrition during pregnancy and lactation.3. To counsel them regarding prenatal and postnatal care and refer them regularly to health centres.4. To educate and skill mothers in breastfeeding and complementary feeding of their babies and help solve problems.5. To guide mothers during home visits and in women's group meeting.
List of activities of student participation	<ol style="list-style-type: none">1. Participate in inpatient and outpatient team rounds2. Educate and counsel a mother and family members for Nutrition and advantages of Breastfeeding3. Demonstrate the correct positioning of Breastfeeding4. Dietary counseling to the parents of malnourished child5. Calculate the calorie requirement of the child
Learning Resources	<ol style="list-style-type: none">1. IAP GUIDEBOOK ON Nutrition and Lactation2. GHAI ESSENTIAL PEDIATRICS TEXTBOOK 9 th edition
Portfolio entries required	Case record of at least one patient Record of patient counselling session
Logbook entry required	Satisfactory completion of posting by preceptor
Assessment	Formative assessment <ol style="list-style-type: none">1. Brief answer questions and multiple-choice questions total marks 502. Attendance,3. Successful verification of required portfolio entries, Successful completion of the posting as certified in the logbook with a “meets expectation ‘M’ grade”

Department of Anaesthesiology

ELECTIVE MODULE: SPINAL ANESTHESIA(SAB)

Code – Anesth 01

Number of students – 20

Name of Block	Block 2
Name of Elective	Anaesthesiology. Spinal anesthesia .(SAB)
Learning objectives of elective	<ol style="list-style-type: none">1. To understand the basic anatomy, physiology and pharmacology related to spinal anaesthesia and its clinical application.2. To explain the Concept of dermatomes related to spinal anaesthesia.3. To describe the Technique of spinal anesthesia (SAB).4. To enumerate the causes of bradycardia and hypotension after spinal anesthesia.5. To explain the changes in respiratory functions after spinal anesthesia.6. To describe the various factors affecting the level of spinal blockade.7. To enumerate the commonly used spinal drugs and adjuvants.8. To describe the complications of spinal anesthesia and management.9. To perform spinal anesthesia (SAB) in patients posted for surgery.
Prerequisites for elective	Must have received necessary immunisation, Basic Life Support training.
List of activities of student participation	<ol style="list-style-type: none">1. Provide patient care under the supervision of a clinic preceptor.2. Counsel patients in their own language.3. Monitoring of vitals pre, intra & post operatively.4. Proper scrubbing and gowning technique.5. Proper painting and draping (Window) technique for SAB.6. Assist in procedures in operation room.7. Hands on spinal anesthesia.
Learning Resources	Collin's principles and practice of anaesthesiology, Clinical anaesthesia Paul J Barash, Miller's Anaesthesia recent edition.
Portfolio entries required	Daily log of patients undergoing spinal anesthesia seen and activities participated. At least 02 fully worked up patients by individual students under supervision to be documented in complete posting.
Log book entry required	Satisfactory completion of posting by internal preceptor co-signed by institutional preceptor.
Assessment	Attendance. Successful verification of required portfolio entries, Successful completion of the posting as certified in the log book with a "meets expectation 'M' grade"
Other comments	-

Department of Respiratory Medicine
ELECTIVE MODULE: PULMONARY FUNCTION TEST
Code – Res-med 01
Number of students – 10

Name of the Block	Block 2
Name of the Elective	Pulmonary function test
Learning Objectives of the Elective-	<ul style="list-style-type: none"> a) To understand the indications for performing PFT b) To understand the maneuver for performing PFT c) To get hands on experience on performing PFT under supervision. d) To be able to read the PFT reports and diagnose obstructive and restrictive Lung diseases
Pre requisite for elective	Knowledge of physiology of Lung (Lung volumes& capacities). Knowledge of various obstructive & restrictive lung diseases.
List of activities of student participation	<ul style="list-style-type: none"> a) History taking and respiratory system examination to diagnose obstructive lung diseases. b) Learn the technique of performing PFT. c) Participate in performing spirometry and BDR
Learning resources	Pulmonary function tests handbook Dr. Salil Bendre
Portfolio entries required	Case records of at least 10 patients
Logbook entries required	Details of case and PFT report
Assessment	<ul style="list-style-type: none"> a) Attendance b) DOPS for performing PFT and reading PFT report c) Successful completion of posting and Logbook entries with M-Grade
Other comments	Nil

Department of Respiratory Medicine

ELECTIVE MODULE: BRONCHOSCOPY

Code - Res-med 02

Number of students – 10

Name of the Block	Block 2
Name of the Elective	Bronchoscopy
Learning Objectives of the Elective-	a) To understand the indications for performing Bronchoscopy b) To be able to prepare patient for Bronchoscopy c) To be able to identify various bronchopulmonary segments during procedure. d) To be able to assist in Bronchoscopy
Pre requisite for elective	Knowledge of Anatomy of lung & various bronchopulmonary segments
List of activities of student participation	a) History taking and respiratory system examination to diagnose obstructive lung diseases. b) Learn the technique of performing Bronchoscopy c) Assist in Bronchoscopy
Learning resources	Textbook of flexible Bronchoscopy Atul Mehta
Portfolio entries required	Case records of at least 10 patient in detail.
Logbook entries required	Details of case of Bronchoscopy report.
Assessment	a) Attendance b) DOPS for identify various c) Successful completion of Lo d) gbook with M-Grade
Other comments	Nil

Department of Otorhinolaryngology

ELECTIVE MODULE: SPEECH DISORDERS AND SPEECH THERAPY

Code – ENT 01

Number of students – 10

Name of the Block	Block 2
Name of the Elective	Speech disorders and Speech therapy
Learning Objectives of the Elective-	a) To get acquainted with various types of Speech disorders. b) To understand the principle of Speech therapy. c) To understand the indication and utility of Speech therapy.
Pre requisite for elective	Basic knowledge of mechanism of Speech and Speech disorders.
List of activities of student participation	a) To attend the Speech therapy session. b) To understand the diagnosis of various Speech disorders. c) Counseling of patients and relatives.
Learning resources	Handbook of Speech pathology and Speech therapy
Portfolio entries required	Case records of at least 2 patients undergoing Speech therapy.
Logbook entries required	Satisfactory completion of posting by preceptor.
Assessment	a) Attendance b) Successful verification of Portfolio entries c) Successful completion of Logbook with Meet expectation (M-Grade)
Other comments	Nil

Department of Otorhinolaryngology
ELECTIVE MODULE: PEDIATRIC OTOLARYNGOLOGY
Code – ENT 01
Number of students – 10

Name of the Block	Block 2
Name of the Elective	Pediatric Otolaryngology
Learning Objectives of the Elective-	<ul style="list-style-type: none"> a) To study various ENT diseases affecting the pediatric population. b) To be able to diagnose common ENT diseases affecting pediatric population. c) To study and observe the management of common ENT diseases affecting pediatric population.
Pre requisite for elective	Basic knowledge of common ENT problems.
List of activities of student participation	<ul style="list-style-type: none"> a) To accompany the consultant ENT surgeon during OPD hours and observe various patients of pediatric age group suffering from ENT problems. b) To understand the management protocol of the same.
Learning resources	Standard Textbook of Pediatric Otolaryngology
Portfolio entries required	Case records of at least 2 patients in detail.
Logbook entries required	Details of case report. Satisfactory completion of posting by preceptor.
Assessment	<ul style="list-style-type: none"> a) Attendance b) Successful verification of Portfolio entries c) Successful completion of Logbook with M-Grade
Other comments	Nil

Department of Ophthalmology

ELECTIVE MODULE: DOCTOR, PLEASE SAVE MY VISION !!: EYE IN SYSTEMIC DISORDERS

Code – Opthal 01

Number of students – 10

Name of block	Block 2
Name of elective	Doctor, please save my Vision !!: Eye in Systemic Disorders
Learning objectives of the elective	To assist in examining the patients of systemic diseases with ocular manifestations To provide care for the above patients in a supervised environment To counsel the patients about the consequences of blinding diseases due to systemic illness
Pre requisites for the elective	Patients (coming to Eye OPD) Equipments (already present)
Learning resources for the students	The Eye in Systemic disease by Jack .J.Kanski
List of activities in which the students will participate	To take history the patient having systemic disease with ocular manifestations visiting Eye OPD under supervised environment To assist in various diagnostic procedures To participate in the counseling of the patient under supervision
Portfolio entries required	Documentation of the cases observed in Eye OPD - minimum 15 cases
Logbook entry required	Completion of the posting signed by the preceptor
Assessment	Attendance - minimum 80% Case presentations - atleast 2 Successful completion of the posting as certified by logbook

Department of Ophthalmology

ELECTIVE MODULE: PUBLIC HEALTH IN OPHTHALMOLOGY

Code - Opthal 02

Number of students – 10

Name of Block	Block 02
Name of Elective	Public Health in Ophthalmology
Learning objectives of the elective	<ul style="list-style-type: none">▪ To learn preventive, promotive, curative and Rehabilitative aspects of community Ophthalmology▪ To understand primary eye care programs and blindness prevention activities under National program for Control of Blindness (NPCB)▪ To diagnose preventive eyesight threatening ocular conditions in community in affordable costs
Prerequisites for the elective	Basic Infrastructure in Ophthalmology and Torch
Learning resources for students	Community Ophthalmology Journal on Cataract Module
List of activities in which the student will participate	Students will understand the need of NPCB program for developing countries like India Students will become familiar with the basic torchlight examination and screening of cataract patients Students will learn the counselling skills (AETCOM)
Portfolio entries required	Details of daily time-table schedule with signature of faculty/resident
Log book entry required	Log of at least 25 patients with diagnosis using Torchlight examination in a peripheral outreach center
Assessment	Using MCQ test on NPCB program Clinical skills: using two cases Communication Skills: using two role plays
Other comments	Need of the hour Elective for all MBBS students and those who wish to pursue Ophthalmology as a career

Department of DVL
ELECTIVE MODULE: DERMATOLOGY
Code – Derma 01
Number of students – 10

Name of the Block	Block 2
Name of the Elective	Dermatology
Learning Objectives of the Elective-	Exposure to clinical Dermatology. Exposure to dermatological procedure.
Pre requisite for elective	Knowledge of Anatomy of skin and Lesionology
List of activities of student participation	History taking, cutaneous examination, understanding different Morphologies Diagnosis of common skin condition. Patient care in wards.
Learning resources	Skin Disease & STI textbook by Dr. Uday Khopkar, Text book of Davidson, text book of Harrison.
Portfolio entries required	Two case to be present
Logbook entries required	Yes
Assessment	Attendance, Participation in OPD & IPD rounds & activities. Entry of patients in log book. Presentation of cases. Observation of basic Procedures. Aesthetic Procedures- Laser therapy entry of which will be done in the log book.
Other comments	Nil

Department of Psychiatry
ELECTIVE MODULE: ELECTROCONVULSIVE THERAPY
Code – Psy 01
Number of students – 10

Name of Block	Clinical
Name of Elective	Electroconvulsive Therapy
Location of hospital lab or research facility	1. Operation Theater
Learning objectives of the elective	<ol style="list-style-type: none"> 1. To describe indications 2. To describe ECT procedure 3. To describe contraindications of ECT 4. To describe adverse effects of ECT
Prerequisites for the elective	-
Learning resources for students	1. Kalpan & Sadock's Synopsis of Psychiatry
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Self-directed learning 2. Case based discussion 3. Group discussion 4. Bed-side clinics 5. Participate in OPD and IPD rounds 6. Present at least two cases that are fully worked up in the teaching session 7. Participate in patient education and multidisciplinary team meetings
Log book entry required	Yes
Assessment	<ol style="list-style-type: none"> 1. Logbook 2. MCQ test

Department of Orthopaedics
ELECTIVE MODULE: HAND WASHING TECHNIQUE BEFORE SURGERY
Code – Ortho 01
Number of students – 10

Name of Block	Block 2
Name of Elective	Hand Washing Technique before Surgery
Learning objectives of elective	<ol style="list-style-type: none"> 1. To learn technique of hand washing 2. To avoid sepsis in Surgery. 3. To avoid Revision surgery like debridement .
Prerequisites for elective	<ol style="list-style-type: none"> 1. Hbs Ag vaccination
List of activities of student participation	<ol style="list-style-type: none"> 1. Participate in operation theater in surgical cases 2. Participate in Emergency OT cases 3. Participate in Ward rounds (Morning) 4. Participate in pressing of parted
Learning Resources	
Portfolio entries required	Assignments provided To wash hands. Documentation of learning as summary
Log book entry required	
Assessment	Attendance Formative: log book entries
Other comments	

Department of Orthopaedics

ELECTIVE MODULE: TO LEARN NEUROLOGICAL ASSESSMENT OF BOTH LOWER LIMBS
IN A PATIENT SUFFERING FROM BACK PAIN & RADICULAR PAIN

Code – Ortho 02

Number of students – 10

Name of Block	Block 2
Name of Elective	To learn Neurological assessment of both lowerlimbs in a patient suffering from back pain & radicular pain
Learning objectives of elective	<ol style="list-style-type: none">1. Attend ortho OPD & examine patients2. Attend classes and watch videos..3. Participate in ward rounds4. Attend OT.
Prerequisites for elective	Assignment Provided Demonstrate examination & patients. Documentation of learning as summary
List of activities of student participation	
Learning Resources	
Portfolio entries required	Assignments provided
Log book entry required	
Assessment	Attendance Formative: Maintain log book entries
Other comments	

Department of Radiology
ELECTIVE MODULE: RADIODIAGNOSIS
Code – Radio 01
Number of students – 10

Name of Block	Block 2
Name of elective	Radiodiagnosis
Learning objective of elective	<ol style="list-style-type: none"> 1. To define radiation and the interaction of radiation and importance of radiation protection. 2. To identify various radiological equipment's in current era. 3. to enumerate indications for various common radiological investigations 4. to acquire knowledge of various common radiological investigations, and to choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder of OBGYN, medicine, surgery, paediatrics, orthopaedics, ENT and ophthalmology 5. To identify structures seen on plain chest x-ray, abdomen, skull, spine, PNS. 6. To identify and describe in brief barium swallow, barium meal, barium enema, intravenous urography, hysterosalpingography, micturating cystourethrogram and retrograde urethrogram. 7. To describe and identify the anatomical route used for carotid angiogram and vertebral angiogram. 8. To describe and identify the cross section at the level of thoracic and lumbar spine and pelvis on CT scan and MRI. 9. To demonstrate preparation of patient for common imaging procedures 10. To enumerate the indication for and interpret the report for ultrasonography. 11. To interpret chest radiograph and recognise cardiomegaly and pleural effusion. 12. To interpret Xray of paranasal sinuses and mastoid and/or use written report in case of management. 13. To interpret CXR in foreign body aspiration and lower respiratory tract infections, understand the significance of thymic shadow in paediatric chest x-ray. 14. To identify the bones and joints of upper limb seen in anteroposterior and lateral view radiographs of shoulder region, arm, elbow, forearm, hand, pelvis, thigh, leg, ankle, foot. 15. To describe the role of emergency radiology, miscellaneous and applied aspects and interaction with clinical departments. 16. To describe the effects of radiation in pregnancy and the methods of prevention, minimisation of radiation exposure. 17. To describe components of PCPNDT Act and its medicolegal implications 18. To describe the role of interventional radiology in common clinical conditions.
Prerequisites for elective	N/A

Learning resources for students	All radiological modalities with faculty and junior residents.
List of activities of student participation	Work daily with junior residents in observing and assisting radiological procedures
Portfolio entries required	Documentation of reported cases
Log book entry required	Completion of posting signed by preceptor with a “meets expectation ‘(M)’ grade”
Assessment	Formative: attendance; day-to-day participation in departmental activity; performance of assigned tasks in the department.
Other comments	NIL

Dr. Madhur Gupta
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Curriculum Committee
NKP SIMS & RC and LMH