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IMPLEMENTATION OF ELECTIVES

ELECTIVES POSTING – 2020 BATCH

BLOCK 1

(Date: 4th March 2024 to 18th March 2024)

DEPARTMENT OF ANATOMY

ELECTIVE MODULE : MEDICAL GENETICS

CODE : Anat - 03

No. of Students 10

Name of Block	1
Name of Elective	Basics of research Methodology for undergraduates with the help of preceptor initiated research
Learning objectives of the elective	<ol style="list-style-type: none">1. To introduced basic of research2. To learn about study designed and hypothesis3. To learn statistical analysis4. To learn how to write an abstract5. Present abstract
Prerequisites for the elective	<ol style="list-style-type: none">1. Printer2. Bones from Bone library dept. of Anatomy,NKP SIMS, Nagpur & Medical college3. Black marker pen4. Digital venire caliper5. Protractor6. Green cloth sheet
Learning resources for students	<ol style="list-style-type: none">1. Gray's Anatomy Text book2. Laptop & Pen drive
List of activities in which the student will participate	<ol style="list-style-type: none">1. Problems solving session on study design2. Abstract presentation
Portfolio entries required	Documentation of work done Documentation of presentation done
Log book entry required	Log book with "M" grade
Assessment	Formative Attendance Performance of assigned tasks Presentation
Other comments	

DEPARTMENT OF ANATOMY**ELECTIVE MODULE : MEDICAL GENETICS****CODE : Anat - 05****No. of Students 10**

Name of Block	01
Name of Elective	Hands on experience of clinical Anatomy by using Mannequins
Learning objectives of the elective	To demonstrate the living Anatomy Technique of administration of drug Various sites of administration of injection /Drug Students should able to know living Anatomy Students should able to identify various sites of administration of drug
Prerequisites for the elective	Subject & Maniquines
Learning resources for students	Text book of Living & surface Anatomy Gray's Anatomy
List of activities in which the student will participate	Students should work with demonstrator Should write abstract of work done Should able to demonstrate the objectives after each session
Portfolio entries required	Workbook enteries , Presentation
Log book entry required	Completion of posting signed by preceptor with a "meets expectation (M) grade"
Assessment	Formative: attendance Successful completion of learning objectives & Log book entry.
Other comments	

Department of Physiology

ELECTIVE MODULE : NERVE CONDUCTION STUDY

CODE : Phy 03
No. of Students 10

Name of the Block	Pre-clinical
Name of Elective	Nerve conduction Study
Learning Objectives of the elective	<ul style="list-style-type: none">- To understand principles of electrophysiological recording for nerve conduction- To record nerve conduction velocity for motor and sensory nerve- To learn abnormalities of nerve conduction in common diseases
Prerequisite for the elective	Booklet to be printed
Learning Resources for the students	Booklet will be provided
List of activities in which students will participate	<ul style="list-style-type: none">- Lecture – cum-demonstration- Hands-on-training- Case-based learning
Portfolio entries required	Yes
Log book entries required	Yes
Assessment	Cognitive domain assessment through MCQs Psychomotor domain through Practical examination
Other comments	---

Department of Physiology

ELECTIVE MODULE : BRAINSTEM AUDITORY EVOKED POTENTIAL

CODE : Phy 04

No. of Students 10

Name of the Block	Pre-clinical
Name of Elective	Brainstem Auditory Evoked Potential
Learning Objectives of the elective	<ul style="list-style-type: none">- To learn Anatomy and physiology of Auditory Pathway- To Record BERA and study normal waves of BERA- To know applications of BERA- To learn abnormalities of waves in different diseased conditions
Prerequisite for the elective	booklet to be printed.
Learning Resources for the students	Booklet will be provided
List of activities in which students will participate	<ul style="list-style-type: none">- Lecture – cum-demonstration- Hands-on-training- Case-based learning
Portfolio entries required	Yes
Log book entries required	Yes
Assessment	Cognitive domain assessment through MCQs Psychomotor domain through Practical examination
Other comments	---

Department of Biochemistry

ELECTIVE MODULE: CLINICAL BIOCHEMISTRY

CODE : Biochem 04

No. of Students 20

Name of Block	1
Name of Elective	Clinical Biochemistry
Learning objectives of the elective	A the end of 15 days, third MBBS student. Should be able <ol style="list-style-type: none">1) To tell which parameters are routinely done in Laboratory.2) To understand diagnostic significance of biochemical parameters .3) To understand correlation between biochemical parameters and various diseases such as infectious ,endocrinal & metabolic diseases.
Number of students that can be accommodated in this elective	20 Students
Prerequisites for the elective	Knowledge of pathophysiology of diseases. Students should attended at least 4-5 clinical postings in ward.
Learning resources for students	Tietz textbook of Biochemistry, Harper, Harrison
List of activities in which the student will participate	<ol style="list-style-type: none">1) Report reading and interpretation of lab report2) Participation in case discussion and finding which biochemical parameter is required to diagnose given case.
Portfolio entries required	-
Log book entry required	Yes
Assessment	<ol style="list-style-type: none">a) Attendanceb) Entry of case studies and required biochemical parametersc) Successful completion of posting and logbook entries
Other comments	Nil
Name of Block	1
Name of Elective	Clinical Biochemistry
Location of hospital lab or research facility	Medical College & Hospital Laboratory

Department of Pathology

ELECTIVE MODULE: HAEMATOLOGY-SCREENING FOR ANEMIA

CODE : Patho 02

No. of Students 10

Name of Block	Block 1
Name of Elective	Haematology-Screening for Anemia
Learning objectives of the elective	<ol style="list-style-type: none">1. To enumerate clinical presentation of anaemia2. To enumerate the testing protocol for commonly performed tests for anaemia3. To Demonstrate the conduct of commonly available tests for diagnosis or anaemia4. To obtain experience of using 5 part Haematology cell counter and interpretation of scatter plot in differentiating types of anaemia5. To obtain experience of screening peripheral blood smear (PBS) to classify anaemias according to rbc morphology6. To evaluate Bone marrow aspiration smear findings in different types of anaemia
Prerequisites for the elective	Universal Precaution required Immunisation
Learning resources for students	Haematology Practical Book
List of activities in which the student will participate	<ol style="list-style-type: none">1) Participate in laboratory activities including<ol style="list-style-type: none">a) Sample Collectionb) Sample processingc) Use of 5 part hematology cell counter and interpretation of findingsd) PBS preparation, staining and interpretatione) Bone marrow smear examination and interpretation2) Participate in academic programmes of the departments3) Write up the laboratory work up of two cases of anaemia4) Present at least two cases of anaemia in departmental academic sessions
Portfolio entries required	<ol style="list-style-type: none">1) Documentation of performed tests2) documentation of worked up cases
Log book entry required	Proforma Comments- Signature of Preceptor-
Assessment	Formative – <ol style="list-style-type: none">a) Attendanceb) day to day participation in departmental activityc) Performance of assigned taskd) Presentation of worked up cases in the department
Other comments	

Department of Pathology
ELECTIVE MODULE: SAFE BLOOD TRANSFUSION PRACTICES
CODE : Patho 03
No. of Students 10

Name of Block	Block 1 (Blood Banking)
Name of Elective	“SAFE BLOOD TRANSFUSION PRACTICES”
Learning objectives of the elective	<ol style="list-style-type: none"> 1. Define Blood transfusion. Discuss the indications for blood transfusion. 2. Enumerate donors selection criterion & demonstrate types of blood collection bags. 3. Enumerate the testing protocol for safe blood transfusion 4. Enumerate blood transfusion reactions 5. Demonstrate blood component preparation & discuss rational use of blood 6. Enumerate TTI. Discuss the testing protocol 7. Attend a blood donation camp 8. Define hemovigilance. Discuss documentation in blood bank. 9. Evaluation 10. Completion of log books / Feedback.
Prerequisites for the elective	(Universal Precaution Certification)
Learning resources for students	Text book of hematology
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Demonstration of working of Blood bank (orientation to safe blood banking practical) 2. Principles of BT & Predonation workup 3. Perform Blood group by tube method/ gel method 4. Observe cross matching test by tube & gel methods. 5. Blood transfusion reaction workup (steps) 6. Quality control in blood component preparation & storage. 7. Observe the testing of blood bags for TTI. 8. Do predonation & post donation counseling. 9. Discuss about donors & recipient vigilance. 10. Evaluation 11. Completion of log books
Portfolio entries required	Observation of demonstrations, documentation of performed tests
Log book entry required	Proforma Comments- Signature of Preceptor-
Assessment	Attendance – Performance of assigned task.
Other comments	80 % Attendance is compulsory

Department of Microbiology

ELECTIVE MODULE: HOSPITAL INFECTION PREVENTION & CONTROL

CODE : Micro 05

No. of Students 20

Name of Block	01
Name of Elective	Hospital Infection Prevention & Control
Learning objectives of the elective	<ol style="list-style-type: none">1. To enumerate organisms causing HAI , Type I HAI2. To know the Standard precaution3. Surveillance of HAI4. To know the preventive measures
Prerequisites for the elective	Nil
Learning resources for students	Library , e-books , Reference Books , PPTS
List of activities in which the student will participate	<ol style="list-style-type: none">1. Practical Demonstration2. Visit to wards3. CBL4. Didactic Lectures
Portfolio entries required	Not required
Log book entry required	Yes
Assessment	MCQ , Attendance , Observation (Activity)
Other comments	

Department of Forensic Medicine & Toxicology

ELECTIVE MODULE: WRITING MEDICAL CERTIFICATE OF AGE ESTIMATION

CODE : FMT 02

No. of Students 10

Name of Block	Block 1
Name of Elective	Writing Medical Certificate of Age estimation
Learning objectives of the elective	<ol style="list-style-type: none"> 1. Prerequisite investigations for certification of Age estimation. 2. Preparation of check list for certification of Age estimation. 3. Preparation of Medical certificate of Age estimation. 4. Medicolegal significance of Age. 5. Maintenance and preservation of proper records of Age estimation certificate.
Prerequisites for the elective	Data regarding Age estimation
Learning resources for students	<ol style="list-style-type: none"> 1. Modi's Medical Jurisprudence & Toxicology : B.V. Subrahmanyam 2. The essentials of Forensic Medicine & Toxicology :- Dr. K. S. Narayan Reddy
List of activities in which the student will participate	<ol style="list-style-type: none"> 1. Will learn prerequisites before certifying Age estimation of the patient. 2. Will develop standardised checklist for Age estimation certificate preparation. 3. Will preserve the records of Age estimation certificate prepared. 4. Will understand precautions while handing over Age estimation certificate. 5. Will understand the medicolegal significance of preparing correct Age estimation certificate.
Portfolio entries required	Daily logs of Age estimation certificate prepared with activities participated Five case that have been attended
Log book entry required	Satisfactory completion of posting by a pereeptor with "Meets expectation grade" "M grade"
Assessment	Attendance Successful completion of required protfolios enteries Successful completion of log book with "M grade"
Other comments	NIL

Department of Forensic Medicine & Toxicology

ELECTIVE MODULE: WRITING MEDICAL CERTIFICATE OF CAUSE OF DEATH

CODE : FMT 05

No. of Students 10

Name of Block	Block 1
Name of Elective	Writing Medical Certificate of cause of death
Learning objectives of the elective	<ol style="list-style-type: none">1. Prerequisite investigations for certification of death.2. Preparation of check list for certification of death.3. Preparation of Medical certificate of cause of death.4. Medicolegal significance of MCCD.5. Maintenance and preservation of proper records of MCCD.
Prerequisites for the elective	Must be well versed with form no.4 & 4A for MCCD, knowledge of basic investigations before declaring death, pathophysiology of various diseases.
Learning resources for students	<ol style="list-style-type: none">1. Modi's Medical Jurisprudence & Toxicology : B.V. Subrahmanyam2. The essentials of Forensic Medicine & Toxicology :- Dr. K. S. Narayan Reddy
List of activities in which the student will participate	<ol style="list-style-type: none">1. Will learn prerequisites before certifying death of the patient.2. Will develop standardised checklist for MCCD preparation.3. Will fill the MCCD form no. 4 and 4A following a standardised checklist.4. Will preserve the records of MCCD prepared.5. Will understand precautions while handing over MCCD.6. Will understand the medicolegal significance of preparing correct MCCD.
Portfolio entries required	Daily logs of MCCD prepared with activities participated Case records of at least 10 patients with MCCD preparation
Log book entry required	Satisfactory completion of posting by a perefector with "Meets expectation grade" "M grade"
Assessment	Attendance Successful completion of required protfolios enteries Successful completion of log book with "M grade"
Other comments	NIL

Department of Pharmacology
ELECTIVE MODULE: PRESCRIPTION WRITING
CODE : Pharma 03
No. of Students 20

Name of Block	Block 1
Name of Elective	Prescription writing
Learning objectives of elective	<ol style="list-style-type: none"> 1. To write a complete, rational and correct prescription for a given condition 2. To write the points to be communicated to a volunteer about disease and prescription 3. To communicate a given prescription to a volunteer. 4. To enumerate parameters analyzed in prescription auditing 5. To describe WHO core drug use indicators 6. To perform critical appraisal of a given prescription.
Prerequisites for elective	Necessary precaution while writing a prescription, benefits of prescribing generic drug name, stationery, printed log book
Learning resources for students	The departmental handbook provided, Aricles
List of activities of student participation	<ol style="list-style-type: none"> 1. Work daily with a supervisor in observing, how to write a prescription 2. Participate in departmental education activities 3. Present at least two case scenarios done by the student as a case work up 4. Present at least two cases in a departmental academic forum
Portfolio entries required	Assignments provided <ol style="list-style-type: none"> 1. Documentation of two case that have been presented 2. Documentation of presentation (OSPE/SGD) done 3. Documentation of learning as summary and self reflection
Log book entry required	Completion of posting signed by preceptor with a "Meets expectation '(M)' grade"
Assessment	Formative: attendance: day-to-day participation in the departmental activity; performance of assigned tasks and presentation of worked up case in department
Other comments	-

Department of Community Medicine
ELECTIVE MODULE: NUTRITION IN CHRONIC DISEASES
CODE: PSM 01
No. of Students 30

Name of Block	1
Name of Elective	NUTRITION IN CHRONIC DISEASES
Learning objectives of the elective	<ol style="list-style-type: none">1. To understand the key food systems and diet related risk factors to chronic diseases2. To enhance students' capacity towards skill-based learning in nutritional assessment3. Enabling students to advice diet plan for specific chronic diseases
Prerequisites for the elective	Basic knowledge of food groups and nutrition
Learning resources for students	Textbook of Community Medicine by K.Park WHO TCS manual on Nutrition and Chronic diseases www.nin.res.in
List of activities in which the student will participate	Preparation of therapeutic diet plan for various chronic diseases Interactive sessions Group discussions
Portfolio entries required	NA
Log book entry required	NA
Assessment	Attendance Summative assessment
Other comments	



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