

#### N.K.P. Salve Institute of Medical Sciences & Research Centre and Lata Mangeshkar Hospital

Digdoh Hills, Hingna Road, Nagpur – 440 019

Phone (07104) 665000,244291, Fax:(07104) 306111-

### IMPLEMENTATION OF ELECTIVES

**ELECTIVES POSTING – 2021 BATCH** 

(Date: 1st March 2025 to 15th March 2025)

BLOCK 1

#### **DEPARTMENT OF ANATOMY**

#### ELECTIVE MODULE: MEDICAL GENETICS

**CODE : Anat - 01 No. of Students 15** 

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	To introduced basic of research
	2. To learn about study designed and hypothesis
	3. To learn statistical analysis
	4. To learn how to write an abstract
	5. Present abstract
Prerequisites for the elective	1. Printer
	2. Bones from Bone library dept. of
	Anatomy, NKP SIMS, Nagpur & Medical
	college
	3. Black marker pen
	4. Digital venire caliper
	5. Protractor
	6. Green cloth sheet
<b>Learning resources for students</b>	<ol> <li>Gray's Anatomy Text book</li> </ol>
	2. Laptop & Pen drive
List of activities in which the student will	1. Problems solving session on study design
participate	2. 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 - 02 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
<b>Learning resources for students</b>	Text book of Living & surface Anatomy
	Gray's Anatomy
List of activities in which the student will	Students should work with demonstrator
participate	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 01 No. of Students 15

Name of the Block	Pre-clinical Pre-clinical
Name of Elective	Nerve conduction Study
Learning Objectives of the elective	<ul> <li>To understand principles of electrophysiological recording for nerve conduction</li> <li>To record nerve conduction velocity for motor and sensory nerve</li> <li>To learn abnormalities of nerve conduction in common diseases</li> </ul>
Prerequisite for the elective	Booklet to be printed
<b>Learning Resources for the students</b>	Booklet will be provided
List of activities in which students will participate	<ul> <li>Lecture – cum-demonstration</li> <li>Hands-on-training</li> <li>Case-based learning</li> </ul>
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 02

#### No. of Students 10

Name of the Block	Pre-clinical
Name of Elective	Brainstem Auditory Evoked Potential
Learning Objectives of the elective	<ul> <li>To learn Anatomy and physiology of Auditory Pathway</li> <li>To Record BERA and study normal waves of BERA</li> <li>To know applications of BERA</li> <li>To learn abnormalities of waves in different diseased conditions</li> </ul>
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> <li>Lecture – cum-demonstration</li> <li>Hands-on-training</li> <li>Case-based learning</li> </ul>
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 01

#### No. of Students 30

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  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  Learning resources for students	Knowledge of pathophysiology of diseases. Students should attended at least 4-5 clinical postings in ward. Tietz textbook of Biochemistry, Harper, Harrison
Zenimig resources for students	The content of Brothemion J, Thurper, Thursdon
List of activities in which the student will participate	<ol> <li>Report reading and interpretation of lab report</li> <li>Participation in case discussion and finding which biochemical parameter is required to diagnose given case.</li> </ol>
Portfolio entries required	-
Log book entry required	Yes
Assessment	<ul> <li>a) Attendance</li> <li>b) Entry of case studies and required</li> <li>biochemical parameters</li> <li>c) Successful completion of posting and logbook entries</li> </ul>
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 01 No. of Students 10

Name of Block	Block 1
Name of Elective	Haematology-Screening for Anemia
Learning objectives of the elective	<ol> <li>To enumerate clinical presentation of anaemia</li> <li>To enumerate the testing protocol for commonly performed tests for anaemia</li> <li>To Demonstrate the conduct of commonly available tests for diagnosis or anaemia</li> <li>To obtain experience of using 5 part Haematology cell counter and interpretation of scatter plot in differentiating types of anaemia</li> <li>To obtain experience of screening peripheral blood smear (PBS) to classify anaemis according to rbc morphoilogy</li> <li>To evaluate Bone marrow aspiration smear findings in different types of anaemia</li> </ol>
Prerequisites for the elective	Universal Precaution required Immunisation
<b>Learning resources for students</b>	Haematology Practical Book
List of activities in which the student willparticipate	<ol> <li>Participate in laboratory activities incluiding         <ul> <li>Sample Collection</li> <li>Sample processing</li> <li>Use of 5 part hematology cell counter and interpretation of findings</li> <li>PBS preparation, staining and interpretation</li> <li>Bone marrow smear examination and interpretation</li> </ul> </li> <li>Participate in academic programmes of the departments</li> <li>Write up the laboratory work up of two cases of anaemia</li> <li>Present at least two cases of anaemia in departmental academic sessions</li> </ol>
Portfolio entries required	<ol> <li>Documentation of performed tests</li> <li>documentation of worked up cases</li> </ol>
Log book entry required	Proforma Comments- Signature of Preceptor-
Assessment	Formative – a) Attendance b) day to day participation in departmental activity c) Performance of assigned task d) Presentation of worked up cases in the department
Other comments	

**Department of Pathology**ELECTIVE MODULE: SAFE BLOOD TRANSFUSION PRACTICES

CODE: Patho 02 No. of Students 10

Name of Block	Block 1 (Blood Banking)
Name of Elective	"SAFE BLOOD TRANSFUSION PRACTICES"
Learning objectives of the elective	<ol> <li>Define Blood transfusion. Discuss the indications for blood transfusion.</li> <li>Enumerate donors selection criterion &amp;demonstrate types of blood collection bags.</li> <li>Enumerate the testing protocol for safe blood transfusion</li> <li>Enumerate blood transfusion reactions</li> <li>Demonstrate blood component preparation &amp; discuss rational use of blood</li> <li>Enumerate TTI. Discuss the testing protocol</li> <li>Attend a blood donation camp</li> <li>Define hemovigilance. Discuss documentation in blood bank.</li> <li>Evaluation</li> <li>Completion of log books / Feedback.</li> </ol>
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> <li>Demonstration of working of Blood bank (orientation to safe blood banking practical)</li> <li>Principles of BT &amp; Predonation workup</li> <li>Perform Blood group by tube method/ gel method</li> <li>Observe cross matching test by tube &amp; gel methods.</li> <li>Blood transfusion reaction workup (steps)</li> <li>Quality control in blood component preparation &amp; storage.</li> <li>Observe the testing of blood bags for TTI.</li> <li>Do predonation &amp; post donation counseling.</li> <li>Discuss about donors &amp; recipient vigilance.</li> <li>Evaluation</li> <li>Completion of log books</li> </ol>
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 01 No. of Students 20

Name of Block	01
Name of Elective	Hospital Infection Prevention & Control
Learning objectives of the elective	<ol> <li>To enumerate organisms causing HAI, Type I HAI</li> <li>To know the Standard precaution</li> <li>Surveillance of HAI</li> <li>To know the preventive measures</li> </ol>
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> <li>Practical Demonstration</li> <li>Visit to wards</li> <li>CBL</li> <li>Didactic Lectures</li> </ol>
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 SICKNESS & FITNESS CERTIFICATE CODE: FMT 01

No. of Students 10

Name of Block	Block 01
Name of Elective	Writing Sickness & Fitness certificate
Learning objectives of the elective	<ol> <li>What is Sickness &amp; Fitness</li> <li>Difference between Medical Fitness &amp; Physical Fitness</li> <li>Prepare Sickness Certificate</li> <li>Prepare Medical Fitness &amp; Physical Fitness</li> </ol>
Prerequisites for the elective	Must be well versed with the format for Sickness & Fitness certificate
Learning resources for students	<ol> <li>Modi's Medical Jurisprudence &amp; Toxicology: Dr. B.V. Subrahmanyam</li> <li>The essentials of Forensic Medicine &amp; Toxicology: - Dr. K. S. Narayan Reddy</li> <li>Principles of Forensic Medicine &amp; Toxicology: - Dr. Rajesh Bardale</li> </ol>
List of activities in which the student will participate	<ol> <li>To visit the wards</li> <li>To examine patients' record from files</li> <li>To understand the prerequisites for certification</li> <li>To prepare sickness &amp; Fitness certificate</li> <li>To understand medicolegal significance of correct certification</li> </ol>
Portfolio entries required	<ol> <li>Case records of at least ten patients</li> <li>Daily logs of certificate prepared with activities</li> </ol>
Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"
Assessment	Attendance Successful completion of required portfolio entries Successful completion of log book with 'M' grade
Other comments	None

## 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> <li>Prerequisite investigations for certification of Age estimation.</li> <li>Preparation of check list for certification of Age estimation.</li> <li>Preparation of Medical certificate of Age estimation.</li> <li>Medicolegal significance of Age.</li> <li>Maintenance and preservation of proper records of Age estimation certificate.</li> </ol>
Prerequisites for the elective	Data regarding Age estimation
Learning resources for students  List of activities in which the student will participate	<ol> <li>Modi's Medical Jurisprudence &amp; Toxicology:         B.V. Subrahmanyam</li> <li>The essentials of Forensic Medicine &amp;         Toxicology:- Dr. K. S. Narayan Reddy</li> <li>Principles of Forensic Medicine &amp; Toxicology:-         Dr. Rajesh Bardale</li> <li>Will learn prerequisites before certifying Age         estimation of the patient.</li> <li>Will develop standardized checklist for Age         estimation certificate preparation.</li> <li>Will preserve the records of Age estimation         certificate prepared.</li> <li>Will understand precautions while handing         over Age estimation certificate.</li> <li>Will understand the medicolegal significance         of preparing correct Age estimation         certificate.</li> </ol>
Portfolio entries required	<ul><li>3. Case record of at least ten patients</li><li>4. Daily logs of Age estimation certificate</li></ul>
Log book entry required	Satisfactory completion of posting by a preceptor with "Meets expectation grade" "M grade"
Assessment	Attendance Successful completion of required portfolio entries 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 03

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> <li>Prerequisite investigations for certification of death.</li> <li>Preparation of checklist for certification of death.</li> <li>Preparation of Medical certificate of cause of death.</li> <li>Medicolegal significance of MCCD.</li> <li>Maintenance and preservation of proper records of MCCD.</li> </ol>
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> <li>Modi's Medical Jurisprudence &amp; Toxicology         <ul> <li>B.V. Subrahmanyam</li> </ul> </li> <li>The essentials of Forensic Medicine &amp;</li></ol>
List of activities in which the student will participate	<ol> <li>To learn prerequisites before certifying death of the patient.</li> <li>To develop standardized checklist for MCCD preparation.</li> <li>To fill the MCCD form no. 4 and 4A following a standardized checklist.</li> <li>To preserve the records of MCCD prepared.</li> <li>To understand precautions while handing over MCCD.</li> <li>To understand the medicolegal significance of preparing correct MCCD.</li> </ol>
Portfolio entries required	<ul><li>5. Case records of at least ten patients</li><li>6. Daily logs of certificate prepared with activities</li></ul>
Log book entry required	Satisfactory completion of posting by a preceptor with "Meets expectation grade" "M grade"
Assessment	Attendance Successful completion of required portfolio entries Successful completion of log book with 'M' grade
Other comments	NIL

## **Department of Pharmacology**ELECTIVE MODULE: PRESCRIPTION WRITING

CODE: Pharma 01 No. of Students 20

Name of Block	Block 1
Name of Elective	Prescription writing
Learning objectives of elective	<ol> <li>To write a complete, rational and correct prescription for a given condition</li> <li>To write the points to be communicated to a volunteer about disease and prescription</li> <li>To communicate a given prescription to a volunteer.</li> <li>To enumerate parameters analyzed in prescription auditing</li> <li>To describe WHO core drug use indicators</li> <li>To perform critical appraisal of a given prescription.</li> </ol>
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> <li>Work daily with a supervisor in observing, how to write a prescription</li> <li>Participate in departmental education activities</li> <li>Present at least two case scenarios done by the student as a case work up</li> <li>Present at least two cases in a departmental academic forum</li> </ol>
Portfolio entries required	Assignments provided  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 Other comments	Formative: attendance: day-to-day participation in the departmental activity; performance of assigned tasks and presentation of worked up case in department
Other comments	<u> </u>

### **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> <li>To understand the key food systems and diet related risk factors to chronic diseases</li> <li>To enhance students' capacity towards skill-based learning in nutritional assessment</li> <li>Enabling students to advice diet plan for specific chronic diseases</li> </ol>
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 NA
Log book entry required	NA
Assessment	Attendance Summative assessment
Other comments	

Dr. Madhur Gupta Coordinator

Curriculum Committee

NKP SIMS & RC and LMH