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# **IMPLEMENTATION OF ELECTIVES**

# **BLOCK 1**

#### **DEPARTMENT OF ANATOMY**

#### ELECTIVE MODULE : MEDICAL GENETICS

#### CODE : Anat - 01 No. of Students 05

Name of Block	1
Name of Elective	Medical Genetics
Location of hospital lab or research facility	Department of Anatomy, N.K.P. Salve Institute of
	Medical Sciences & Research Centre and Lata
	Mangeshkar Hospital
Name of external preceptor (if any)	N/A
Learning objectives of the elective	1. To demonstrate the conduct of karyotyping in
	controlled environment
	2. To enumerate the indications for karyotyping
	3. To enumerate the testing protocol for karyotyping
	4. To demonstrate the correct method to perform
	karyotype
	5. To present a genetic history and determine the
	nature of inheritance of a given condition
Number of students that can be accommodated	5
in this elective	
Prerequisites for the elective	Basic knowledge about genetics & Karyotyping
Learning resources for students	Handbook of genetic counseling
	Emery's Elements of Medical Genetics
List of activities in which the student will	- Work with supervisor in observing genetic test
participate	- Assist the supervisor while performing
	karyotyping
	- Visit hospital and find the cases from
	wards/medical record
	- Group discussion of cases & procedure of
	karyotyping
	- Performing the protocol & procedure of
	karyotyping
	- Case presentation
Portfolio entries required	Documentation of worked up cases.
Log book anting us guined	Documentation of presentation done
Log book entry required	Completion of posting signed by preceptor with a
Assossment	"meets expectation (M) grade" Formative: attendance
Assessment	Day-to-day participation in the activities
	Performance of assigned task
	Presentation of worked up cases
Other comments	
Other comments	-

#### **DEPARTMENT OF PHYSIOLOGY**

#### ELECTIVE MODULE: LIFESTYLE MODIFICATION FOR HEALTH THROUGH YOGA

Name of The Block	1
Name of Elective	Lifestyle modification for health through yoga
Location of hospital lab or research facility	Department of Physiology, N.K.P. Salve Institute of Medical Sciences & Research Centre and Lata Mangeshkar Hospital
Name of external preceptor (if any)	-
Learning objectives of the elective	<ul> <li>To Know the burden of lifestyle related diseases</li> <li>To understand importance of lifestyle modification through yoga for health</li> <li>To learn basic yogasana, pranayam and meditation methods</li> <li>To learn physiology of yoga</li> </ul>
Number of students that can be accommodated in this elective	20
Prerequisites for the elective	Lifestyle modification Centre Hall, Instructor, Yoga mats, Notes for modules to be printed
Learning resources for students	Modules will be provided
List of activities in which the student will participate	<ul> <li>Lecture – cum – demonstration</li> <li>Practical's</li> </ul>
Portfolio entries required	Yes
Log book entry required	Yes
Assessment	Cognitive domain assessment through MCQs Psychomotor domain through practical examination
Other comments	-

# CODE: Physio– 01 Number of Students- 20

#### **DEPARTMENT OF BIOCHEMISTRY**

#### ELECTIVE MODULE: CLINICAL BIOCHEMISTRY

## CODE: Biochem-01 Number of Students – 20

Name of Block	01
Name of Elective	Clinical Biochemistry
Location of hospital lab or research facility	Department of Biochemistry, N.K.P. Salve Institute of Medical Sciences & Research Centre and Lata Mangeshkar Hospital
Name of external preceptor (if any)	Faculty from Medicine Department.
Learning objectives of the elective	<ul> <li>At the end of 15 days, third MBBS student should be able : <ol> <li>To tell which parameters are routinely done in Laboratory.</li> <li>To understand diagnostic significance of biochemical parameters.</li> <li>To understand correlation between biochemical parameters and various diseases such as infectious, endocrinal &amp; metabolic diseases.</li> </ol> </li> </ul>
Number of students that can be accommodated in this elective	20
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> <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 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 : CLINICAL IMPORTANCE OF FLUID CYTOLOGY

Name of Block	1	
Name of Elective	Clinical importance of Fluid Cytology	
Location of hospital lab or research facility	Department of Pathology, N.K.P. Salve Institute of Medical Sciences & Research Centre and Lata Mangeshkar Hospital	
Name of external preceptor(if any)		
Learning objectives of the elective	<ol> <li>To know the various body fluids which are tested routinely.</li> <li>To enumerate indications for body fluids investigation.</li> <li>To know how fluids are processed in the laboratory</li> <li>To know about preparation of cytosp in smear.</li> <li>To learn how a slide is reported and know its clinical significance.</li> </ol>	
Number of students that can be accommodated in this elective	10	
Prerequisites for the elective	<ol> <li>Universal precautions to handle body fluids.</li> <li>To have basic knowledge about various body fluids.</li> </ol>	
Learning resources for students	<ol> <li>Textbook of Clinical Pathology. By Dr Shirish Kawthalkar</li> <li>Notes provided by department</li> </ol>	
List of activities in which the student will participate	<ol> <li>Introduction of Topic</li> <li>Sample receiving and sample entry, including labeling of sample</li> <li>Sample processing</li> <li>Cytospin procedure</li> <li>Slide preparation and staining by various methods</li> <li>Reporting of slide, interpretation and release of report All the above activities will be first observed by the</li> </ol>	

#### **CODE:** Patho - 01 Number of Student - 10

Port folioentries required	1. Documentation of daily activity done with signature of the internal preceptors.
Logbook entry required	YES
Assessment	<ul> <li>a. The students should have the basic knowledge on body fluids &amp; effusion.</li> <li>b. Preparation of slide.</li> <li>c. Routine staining done /used.</li> <li>d. Reporting (should be able to identify inflammatory and malignant effusions.)</li> </ul>
Other comments	-

#### **DEPARTMENT OF PHARMACOLOGY**

#### ELECTIVE MODULE : PRESCRIPTION WRITING

# Code: Pharmac – 01

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Number	of Students - 15	

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Name of Block	1	
Name of Elective	Prescription writing	
Location of hospital Lab or	Department of Pharmacology, N.K.P. Salve Institute of Medical	
research facility	Sciences & Research Centre and Lata Mangeshkar Hospital	
Name of external preceptor (if applicable)	N/A	
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>	
Number of students that can be accommodated in this elective	15	
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, Articles	
List of activities of student	1. Work daily with a supervisor in observing how to write a prescription	
participation	<ol> <li>Participate in departmental education activities</li> <li>Present at least two case scenarios done by the student as a case workup</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 &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-upcase in department	
Other comments	-	

#### DEPARTMENT OF MICROBIOLOGY

## ELECTIVE MODULE : DIAGNOSTIC MODALITIES IN NEWER VIRAL INFECTION

Name of Block	1
Name of Elective	Diagnostic Modalities in newer viral Infection
Location of hospital lab or research facility	Department of Microbiology, N.K.P. Salve Institute of Medical Sciences & Research Centre and Lata Mangeshkar Hospital
Name of external preceptor (if any)	None
Learning objectives of the elective	<ol> <li>Student should be able to enumerate newer viral infection.</li> <li>Student should know methods of sample collection.</li> <li>Student should be able to analysis &amp; interpret results.</li> <li>Student should be able to communicate report to clinician.</li> <li>Student should be able to do counselling of patient&amp; maintain the confidentiality of report</li> </ol>
Number of students that can be accommodated in this elective	20
Prerequisites for the elective	RNA extraction Kit , PCR Kit
Learning resources for students	Books, E-Books, Kit literature, Journals
List of activities in which the student will participate	<ol> <li>To know about newer viral infection.</li> <li>Student should know which test to be perform for various infections.</li> <li>Pre test counselling of patients.</li> <li>Filling of requisition forms</li> <li>Collection of sample.</li> <li>Transport &amp; Storage of sample.</li> <li>Processing of sample.</li> <li>Analysis &amp; interpretation of reports</li> <li>Communication of reports to clinician</li> <li>Post test counselling.</li> </ol>
Portfolio entries required	
Log book entry required	Yes
Assessment	Attendance, Observation, MCQ
Other comments	-

#### **CODE:** Micro – 01 Number of Students – 20

#### DEPARTMENT OF COMMUNITY MEDICINE

#### ELECTIVE MODULE : BASIC DATA ANALYSIS BY USING STATISTICAL SOFTWARE TEMPLATE

Name of Block	1
Name of Elective	Basic Data Analysis by using Statistical Software
Location of hospital labor research facility	Department of Community Medicine, N.K.P. Salve Institute of Medical Sciences & Research Centre and Lata Mangeshkar Hospital
Name of external preceptor (if any)	NA
Learning objective so the elective	<ol> <li>Toper form data entry in MS Excel</li> <li>To learn data cleaning and use of filter in MS excel</li> <li>To acquire skills in basic data analysis using MS Excel and Epi Info software</li> </ol>
Number of students that can be accommodated in this elective	30
Prerequisites for the elective	Basic knowledge of computer handling, Laptops
Learning resources for students	Handbook, CDC manual for Epi info software
List of activities in which the student will participate	Data entry Data analysis Interpretation of statistical test
Portfolio entries required	NA
Logbook entry required	NA
Assessment	Attendance Summative assessment
Other comments	-

# CODE: CM – 01 Number of Students- 30

#### **DEPARTMENT OF FORENSIC MEDICINE & TOXICOLOGY**

#### ELECTIVE MODULE : WRITING MEDICAL CERTIFICATE OF CAUSE OF DEATH

Name of Block	1
Name of Elective	Writing Medical Certificate of cause of death
Location of hospital lab or research facility	Department of Forensic Medicine & Toxicology, N.K.P. Salve Institute of Medical Sciences & Research Centre and Lata Mangeshkar Hospital
Name of external preceptor (if any)	Not any
Learning objectives of the elective	<ol> <li>Prerequisite investigations for certification of death.</li> <li>Preparation of check list 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>
Number of students that can be accommodated in this elective	05
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 :B.V. Subrahmanyam</li> <li>The essentials of Forensic Medicine &amp;Toxicology :- Dr. K. S. Narayan Reddy</li> </ol>
List of activities in which the student will participate	<ol> <li>Will learn prerequisites before certifying death of the patient.</li> <li>Will develop standardised checklist for MCCD preparation.</li> <li>Will fill the MCCD form no. 4 and 4A following a standardised checklist.</li> <li>Will preserve the records of MCCD prepared.</li> <li>Will understand precautions while handing over MCCD.</li> <li>Will understand the medicolegal significance of preparing correct MCCD.</li> </ol>
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 preceptor with "Meets expectation grade" "M grade"
Assessment	Attendance Successful completion of required portfolio enteries Successful completion of log book with "M grade"
Other comments	NIL

#### CODE: FMT-01 Number of Students – 05

#### **DEPARTMENT OF FORENSIC MEDICINE & TOXICOLOGY**

ELECTIVE MODULE: SICKNESS & FITNESS CERTIFICATE

Name of Block	1
Name of Elective	Sickness & Fitness certificate
Location of hospital lab or research facility	Department of Forensic Medicine & Toxicology, N.K.P. Salve Institute of Medical Sciences & Research Centre and Lata Mangeshkar Hospital
Name of external preceptor (if any)	None
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>
Number of students that can be accommodated in this elective	05
Prerequisites for the elective	Data regarding Sickness
Learning resources for students	<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> </ol>
List of activities in which the student will participate	<ol> <li>Visit to wards</li> <li>Examine patients' record from files</li> <li>Prepare sickness &amp; Fitness certificate</li> </ol>
Portfolio entries required	<ol> <li>Assignments provided</li> <li>Five case that have been attended</li> <li>Documentation of learning as summary and self reflection</li> </ol>
Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"
Assessment	Attendance Formative: Participation in rounds and team activities, Presentation of cases, Documentation of attendance and log book entries
Other comments	None

#### CODE: FMT- 02 Number of Student - 05