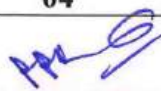


GOVERNMENT MEDICAL COLLEGE ALIBAG

LIST OF ELECTIVES

Sr.no	Name of Elective	Department	Number of students	Block
1.	Anaesthesiology- as a speciality	Anaesthesiology	5	2
2.	Surgical Instrument Handling	General Surgery	5	2
3.	Skin Suturing	General Surgery	5	2
4.	Chronic Otitis media- Workup	Otorhinolaryngology	5	2
5.	Nasal polypi-Workup	Otorhinolaryngology	5	2
6.	Obstetric Ultrasound-Orientation	Radiodiagnosis	2	2
7.	Chest Radiography- Orientation	Radiodiagnosis	2	2
8.	Intensive Care unit-Orientation	General Medicine	5	2
9.	Hemodialysis- Orientation	General Medicine	5	2
10.	Casualty ward-Orientation	General Medicine	5	2
11.	General Medicine ward-skill based Orientation	General Medicine	5	2
12.	Pediatric Immunization clinic	Pediatrics	5	2
13.	Developmental Behavioral Pediatrics	Pediatrics	5	2
14.	Ophthalmology-skill based orientation	Ophthalmology	5	2
15.	Osteoarthritis workup & skill based orientation	Orthopedic	5	2
16.	Obstetrics-skill based orientation	Obstetrics	5	2
17.	Gynecology-skill based orientation	Gynecology	5	2
18.	Infertility & Antenatal care-workup orientation	Obstetrics & Gynecology	2	2
19.	Museum Techniques & Window dissection in Anatomy	Anatomy	3	1
20.	Interpretation of Lab reports & Quality control in Biochemistry	Biochemistry	10	1
21.	Relationship between perceived exertion and physiological measures	Physiology	2	1
22.	Effect of Acute exercises on QT Dispersion	Physiology	2	1
23.	Pharmacovigilance	Pharmacology	10	1
24.	Orientation in Microbiology Laboratories	Microbiology	10	1
25.	Postmortem Examination	Forensic Medicine	05	1
26.	Medicolegal importance of Brain in Autopsy	Forensic Medicine	05	1
27.	Research Methodology & Manuscript writing	Community Medicine	05	1
28.	Artificial Intelligence in Research	Community Medicine	05	1
29.	Histopathology-Orientation	Pathology	06	1
30.	Cytopathology-Orientation	Pathology	02	1
31.	Hematopathology-Orientation	Pathology	06	1
32.	Blood Transfusion-Orientation	Pathology	04	1


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Name of Block	Block 2
Name of Elective	ANAESTHESIOLOGY- AS A SPECIALITY
Location	Department of Anaesthesiology, GMC, Alibag & District Hospital Raigad
Name of internal preceptor(s)	Dr. Devanand Pawar, Associate Professor Dr. Aishwarya Sonune, Assistant Professor
Learning objectives of elective	<ol style="list-style-type: none"> 1. Observe and Participate in all aspect of anaesthesiology, including preoperative assessment, administration of anesthesia, intraoperative management and postoperative care 2. Understanding basic principles of airway management 3. Understanding various ways of anesthesia administration and choosing right type of anesthesia to patient undergoing various surgeries.
Number of students	Maximum 05 (five) students
Prerequisites for elective	Basic knowledge about physiology and pharmacology related to subject
Learning resources for students	<p>Recommended textbook:</p> <ol style="list-style-type: none"> 1. Short textbook of Anaesthesiology by Ajay Yadav 2. Miller's Anesthesia
List of activities of student participation	Students need to attend daily routine OT and need to assist consultants in preoperative assessment, administration of anesthesia, intraoperative management and postoperative care. They also to attend and participate in departmental teaching activities.
Portfolio entries required	Case record of at least two patients (preoperative evaluation, consent writing, intraoperative notes, shifting notes)
Log book entry required	Note of Satisfactory completion of posting by Preceptors
Assessment	<p>Attendance</p> <p>Formative assessment</p> <p>Successful verification of portfolio entry</p> <p>Certification in logbook of successful completion of posting</p>



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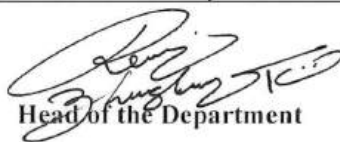


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Name of Block	Block 2
Name of Elective	1.Surgical Instrument Handling
Location of hospital Lab or research facility	General surgery Operation Theatre, Government Medical College Alibag & District Hospital Raigad
Name of internal preceptor(s)	Dr Ravibhushan Kasale Dr Ghanshyam Ingale Dr Ravi Varat
Learning objectives of elective	By the end of the elective student will be able to 1. Identify the commonly used surgical instruments 2. Appropriate Handling of surgical instruments
Number of students that can be accommodated in this elective	Up to 5 students
Learning resources for students	Recommended textbooks Manipal Manual of Instruments
List of activities of student participation	Hands on workshop
Portfolio entries required	Reflective write up of Describing a surgical instrument
Log book entry required	Description and handling of two surgical instruments
Assessment	Continuous assessment based on participation in workshops Reflective writeup



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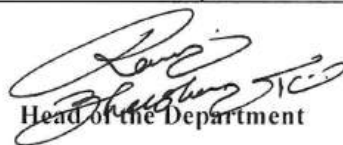
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Name of Block	Block 2
Name of Elective	2. Skin Suturing
Location of hospital Lab or research facility	General surgery Operation Theatre, Government Medical College Alibag & District Hospital Raigad
Name of internal preceptor(s)	Dr Ravibhushan Kasale Dr Ghanshyam Ingale Dr Ravi Varat
Learning objectives of elective	By the end of the elective student will be able to 1. Identify the different types of suture material 2. Learn different types of skin suturing methods
Number of students that can be accommodated in this elective	Up to 5
Prerequisites for elective	Up to 5 students
Learning resources for students	Recommended textbooks Basic Surgical Skills and Techniques
List of activities of student participation	Hands on workshop
Portfolio entries required	Reflective write up of Describing skin suturing methods
Log book entry required	Description of two skin suturing techniques
Assessment	Continuous assessment based on participation in workshops Reflective writeup



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Name of Block	Block 2
Name of Elective	Chronic Otitis media - Workup
Location of hospital	Government Medical College Alibag & District hospital Raigad ENT OPD
Name of internal preceptor(s)	Dr Madhavi Mali
Learning objectives of elective	1) Evaluation of patients in the outpatient clinic with ear discharge 2) To diagnose and treat effectively the patients of CSOM in primary health setup 3) To describe various management options of CSOM
Number of students	5
Prerequisites for elective	Students should know anatomy of ear. Students should be able to perform otoscopic ear examination.
Learning resources for students	Diseases of ear, nose, throat and head neck surgery by P L Dhingra
List of activities of student participation	1) Perform history taking and examination of patients with ear discharge and record data in structured proforma 2) Find out aetiology of CSOM 3) Perform otoendoscopy and examination under microscope of the affected ear, correlate with hearing loss caused by CSOM 4) Discuss management of patient with CSOM
Portfolio entries required	List comorbidities like diabetes, ckd, any medications for each patient Record history, ear examination findings, PTA findings. Record surgical findings of patients managed surgically.
Log book entry required	Prepare proforma Enter data of all patients Prepare master chart and analyze
Assessment	Submit the study in the ENT department. Reflective writing, Formative-Viva

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Name of Block	Block 2
Name of Elective	Nasal polypi - Workup
Location	Government Medical College Alibag & District hospital Raigad ENT OPD
Name of internal preceptor	Dr Madhavi Mali
Learning objectives of elective	To evaluate patients coming to ENT opd with complaints of nasal obstruction, bleeding from nose. To describe pathophysiology of nasal polypi. Describe the management of patient with nasal polypi. To know indications of performing diagnostic nasal endoscopy.
Number of students	5
Prerequisites for elective	Knowledge of anatomy of nose and paranasal sinuses. Students should know the procedure of endoscopy in ENT
Learning resources for students	Diseases of ear, nose, throat and head and neck surgery by P L Dhingra
List of activities of student participation	1) Perform history taking and examination of patients with complaint of nasal obstruction, bleeding from nose and record data in structured proforma 2) Epistaxis management 3) Watch Diagnostic nasal endoscopy being performed and indications and contraindications of doing these. 4) Record findings in proforma. 5) Discuss medical and surgical management of patient with nasal polypi.
Portfolio entries required	History proforma List comorbidities like diabetes, ckd, asthma Record surgical findings of patients managed surgically.
Log book entry required	Enter data of all patients Prepare master chart and analyze
Assessment	Submit the study in ENT department, Reflective writing, Formative-Viva




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Name of Block	Block 2
Name of Elective	Obstetric ultrasound
Location of hospital Lab or research facility	Government Medical College Alibag & District hospital Raigad. Ground floor OPD building
Name of internal preceptor(s)	Dr Saurabh Patil
Name of external preceptor (if applicable)	NA
Learning objectives of elective	1. To understand different types of Obstetric ultrasounds 2. To be able to interpret Obstetric ultrasound reports 3. To counsel patient regarding her reports
Number of students that can be accommodated in this elective	02
Prerequisites for elective	1. Willingness to work dedicatedly in crowded space
Learning resources for students	1. Handbook of radiology 2. PCPNDT law
List of activities of student participation	1. To assist sisters in filling Obstetric USG forms 2. To review all old reports of patient and provide summary to the radiologist
Portfolio entries required	1. List of patients counselled 2. List of coordinating activities done with OBGY dept in complicated cases
Log book entry required	1. daily list of patients attended and their workup done
Assessment	Oral viva at end of posting



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Name of Block	Block 2
Name of Elective	Chest Radiography
Location of hospital Lab or research facility	Government Medical College Alibag & District hospital Raigad. Ground floor IPD building.
Name of internal preceptor(s)	Dr Saurabh Patil
Name of external preceptor	NA
Learning objectives of elective	1. To understand different indications for Chest radiograph 2. To be able to differentiate normal and abnormal chest radiographs 3. To take history of patients before procedure
Number of students	02
Prerequisites for elective	1. Willingness to work dedicatedly in crowded space
Learning resources for students	1. Felsons textbook of chest radiography
List of activities of student participation	1. To assist technicians in taking chest radiograph 2. To review all old reports of patient and provide summary to the radiologist 3. To assist radiologist during Chest radiography reporting
Portfolio entries required	1. List of patients assisted 2. List of all patients suspected to have abnormalities on reporting
Log book entry required	1. daily list of patients attended and their diagnosis
Assessment	Oral viva at end of posting


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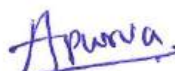

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Name of Block	Block 2
Name of Elective	Intensive care unit-Orientation
Location	Government Medical College Alibag & District hospital Raigad. First floor, IDP building
Name of internal preceptor(s)	Dr Apurva Kulkarni & Dr Karan Waghmare
Name of external preceptor	Dr Vaibhav Patil (Specialist Physician, District hospital Raigad)
Learning objectives of elective	<ol style="list-style-type: none"> 1. To asses need for ICU care in admitted patients 2. To attend daily ICU rounds 3. To set up IV infusion and calculating drip rate 4. To observe and assist in providing Aerosol therapy 5. To observe and assist in providing oxygen therapy 6. To observe lumbar puncture 7. To observe and assist in inserting urinary Catheterisation 8. To observe Pleural & Ascitic aspiration 9. To observe and assist in giving intramuscular & Intravenous injection
Number of students	05
Prerequisites for elective	Willingness to work and follow strict asepsis protocols as mandated for ICU and show empathy for the patients
Learning resources for students	Chapters of Intensive care management from Harrisons textbook of Internal Medicine
List of activities of student participation	<ol style="list-style-type: none"> 1. work daily under supervision and understand the rationale behind the indoor orders 2. Observe/Assist ICU residents in bedside procedures as given above in learning objectives
Portfolio entries required	To perform clerkship of atleast 5 patient from their admission till discharge
Log book entry	1. Daily logbook maintenance
Assessment	Oral viva at end of posting Daily continuous assessment and feedback



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Name of Block	Block 2
Name of Elective	Hemodialysis
Location	Government Medical College Alibag, Ground floor, IDP building District hospital Raigad
Name of internal preceptor(s)	Dr Apurva Kulkarni
Name of external preceptor	Dr Hardik Shah (visiting nephrologist)
Learning objectives of elective	1. To understand need for hemodialysis 2. To understand procedure of hemodialysis 3. To enumerate complications during hemodialysis 4. To teach hemodialysis care to patient
Number of students	05
Prerequisites for elective	Willingness to work and follow strict asepsis protocols as mandated for Dialysis ward, Stethoscopes
Learning resources for students	Chapter of Chronic kidney disease from Harrisons textbook of Internal Medicine
List of activities of student participation	1. work daily under supervision and perform pre and post dialysis checkup 2. Assist technician in setting HD circuit
Portfolio entries required	To note names of patients observed or assisted along with their feedback
Log book entry	1. Daily logbook maintenance
Assessment	Oral viva at end of posting Daily continuous assessment and feedback
Other comments	Students should bring their own


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Name of Block	Block 2
Name of Elective	Casualty Ward-Orientation
Location	Government Medical College Alibag & District hospital Raigad. Ground floor, IDP building
Name of internal preceptor(s)	Dr Apurva Kulkarni, Dr Saurabh Patil & Dr Karan Waghmare
Name of external preceptor	Dr Vaibhav Patil (Specialist Physician, District hospital Raigad
Learning objectives of elective	<ol style="list-style-type: none">1. To set up IV infusion and calculating drip rate2. To observe and assist in providing Aerosol therapy3. To observe and assist in providing oxygen therapy4. To observe lumbar puncture5. To observe and assist in inserting urinary Catheterisation6. To observe Pleural & Ascitic aspiration7. To observe and assist in giving intramuscular & Intravenous injection8. To observe Medicolegal formalities/procedures carried out in Casualty
Number of students	05
Prerequisites for elective	Willingness to work and follow strict asepsis protocols as mandated for ward and show empathy for the patients
Learning resources for students	Chapters of Intensive care management from Harrisons textbook of Internal Medicine
List of activities of student participation	<ol style="list-style-type: none">1. work daily under supervision and understand the rationale behind the indoor orders2. Observe/Assist Casualty Medical officers in procedures as given above in learning objectives
Portfolio entries required	Daily activities observed and assisted and assessment.
Log book entry	Daily logbook maintenance
Assessment	Daily continuous assessment and feedback, SAQ, Reflective writing

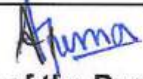
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Name of Block	Block 2
Name of Elective	General Medicine Ward-Skill based Orientation
Location	Government Medical College Alibag & District hospital Raigad. Ground floor, IDP building
Name of internal preceptor(s)	Dr Apurva Kulkarni, Dr Saurabh Patil & Dr Karan Waghmare
Name of external preceptor	Dr Vaibhav Patil (Specialist Physician, District hospital Raigad
Learning objectives of elective	1. To set up IV infusion and calculating drip rate 2.To observe and assist in providing Aerosol therapy 3.To observe and assist in providing oxygen therapy 4.To observe lumbar puncture 5.To observe and assist in inserting urinary Catheterisation 6.To observe Pleural & Ascitic aspiration 7.To observe and assist in giving intramuscular & 8.Intravenous injection 9.To observe Admission & Discharge formalities/procedures carried out in General Medicine ward 10 To attend daily ward rounds
Number of students	05
Prerequisites for elective	Willingness to work and follow strict asepsis protocols as mandated for ward and show empathy for the patients
Learning resources for students	Harrisons textbook of Internal Medicine
List of activities of student participation	1. Work daily under supervision and understand the rationale behind the indoor orders 2. Observe/Assist General Medicine- Medical officers/Residents in procedures as given above in learning objectives
Portfolio entries required	Daily activities observed and assisted and assessment.
Log book entry	Daily logbook maintenance
Assessment	Daily continuous assessment and feedback, SAQ, Reflective writing


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Name of block	Block 2
Name of elective	Paediatric immunization clinic
Location	Govt. Medical College, Alibag & District Hospital Raigad
Name of internal preceptor(s)	Dr.Sudhakar Bantewad
Learning objectives of elective	1) To participate in routine immunization under supervision. 2) To identify and notify adverse event following immunization. 3) To participate on going research in immunization.
Number of students	05
Prerequisite for elective	1. Should know doses and routes of national immunization schedule. 2. Should know safe immunization practice and cold chain mechanism 3. Should know universal precautions and hand hygiene.
List of activities of student participation	1) Provide routine immunization under the supervision of seniors and monitoring for adverse effects management after vaccination. 2) Counsel patients relatives in their own language 3) To assist in data collection and documentation after immunization activity.
Learning resources	1) National immunization program guidelines 2) Indian Academy of Pediatrics immunization.
Portfolio entries	1) Daily log of patients seen and activities participated.
Log book entry required	1) Documentation of at least 4 successful vaccinated children under supervision. 2) Satisfactory completion of posting by HOD co-signed by institutional preceptor
Assessment	1) Attendance of student 2) DOPS (directly observed procedure skill assessment) 3) Successful verification of required portfolio entries, 4) Successful completion of the posting certified in the log book with a meet expectation 'M' grade



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Name of Block	Block 2
Name of Elective	Developmental-Behavioral Pediatrics(DBP)
Location	Government Medical College Alibag & District Hospital Raigad
Name of the internal preceptor(s)	Dr.Sudhakar Bantewad
Learning objectives of elective	<ol style="list-style-type: none"> To be able to use basic developmental screening tools/procedures for young children and school-aged children. To be able to use various behavioural tools for screening children with behavioural problems. To understand the importance and role of early intervention and investigations in a child with developmental delay To understand the principles of multidisciplinary team management of children with developmental and behavioral problems.
Number of students	5
Prerequisites for elective	Universal precautions and must have knowledge of normal developmental milestones and common behavioural problems in children up to 12 years
List of activities of student participation	<ol style="list-style-type: none"> Participate in history taking and clinical evaluation of patients visiting CGC outpatient Department. Participate in rounds of IPD pts of developmental delay with senior faculty as a student learner. Participate in case presentations related to developmental delay in departmental activities Counsel parents about diagnosis and prognosis of a child with DBP. Present at least one CASE with neurodevelopment disease or behavioural problem in departmental meeting/bedside.
Learning resources	<ol style="list-style-type: none"> Nelson textbook of Pediatrics 21st edition Illingworth The development of the infant and young child 11th edition
Portfolio entries required	Assessments provided Daily log of patients seen and activities participated Documentation of SDL as Summary and reflection
Log book entries	Satisfactory completion of posting with remarks of preceptor
Assessment	Attendance, Formative: Participation in OPD/ IPD round and team activities, MINI-CEX EVALUATION for 2 cases Documentation of required portfolio and required log book entries

Abbreviations:CGC:Child Guidance Clinic, IPD:In patient department, DBP: Developmental-Behavioural pediatrics. MINI-CEX-MINI CLINICAL EVALUATION EXERCISE.


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Name of Block	Block 2
Name of Elective	Ophthalmology- skill based orientation
Location	Government Medical College Alibag & District hospital Raigad, Ophthalmology OPD
Name of internal preceptor(s)	Dr Avinash Gajulwar & Dr Pratik Kunde
Learning objectives of elective	<ol style="list-style-type: none"> 1. To observe & assist in Visual acuity testing 2. To observe & assist in Digital tonometry 3. To observe & assist in Indirect Ophthalmoscopy 4. To observe & assist in Epilation 5. To observe & assist in Eye irrigation 6. To observe & assist in instilling eye medication 7. To observe & assist in ocular bandaging
Number of students	05
Prerequisites for elective	Willingness to work and follow strict asepsis protocols and show empathy for the patients
Learning resources for students	Comprehensive Ophthalmology With Ophthalmology Logbook Plus Practical Ophthalmology by AK Khurana , Aruj K Khurana , et al
List of activities of student participation	<ol style="list-style-type: none"> 1. To observe & assist in Visual acuity testing 2. To observe & assist in Digital tonometry 3. To observe & assist in Indirect Ophthalmoscopy 4. To observe & assist in Epilation 5. To observe & assist in Eye irrigation 6. To observe & assist in instilling eye medication 7. To observe & assist in ocular bandaging
Portfolio entries required	Procedures assisted and observed
Log book	Procedures assisted and observed
Assessment	DOPS, Viva, Reflective writing



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Name of Block	Block 2
Name of Elective	Orthopedic- Osteoarthritis workup & skill based orientation
Location	Government Medical College Alibag- District Hospital Raigad-Orthopedic OPD
Name of internal preceptor(s)	Dr Krishna Badgire & Dr Nilesh Jadhav
Learning objectives of elective	1.To observe & assist in performing tests to diagnose osteoarthritis 2.Enumerate causes & clinical features of Osteoarthritis 3. To observe and assist in application of basic splints and slings 4. To observe and assist in basic fracture dislocation management 5. To observe and assist in compression bandage procedure
Number of students	3
Prerequisites for elective	Attend regular OPD, Empathy towards patient care.
Learning resources for students	Books -Tureks textbook, Maheshwari Essential Orthopaedics
List of activities of student participation	1.To observe & assist in performing tests to diagnose osteoarthritis 2.Enumerate causes & clinical features of Osteoarthritis 3. To observe and assist in application of basic splints and slings 4. To observe and assist in basic fracture dislocation management 5. To observe and assist in compression bandage procedure 6.To assist junior residents in ward work
Portfolio entries required	Daily activities, procedures assisted and observed
Log book	Daily logbook maintenance
Assessment	Reflective writing, SAQ, Viva


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Name of Block	Block 2
Name of Elective	Obstetrics-Skill based orientation
Location	Government Medical College Alibag & District hospital Raigad. First floor, IDP building. Ground floor, Obstetrics-OPD & Ward
Name of internal preceptor(s)	Dr Rajashree Bhosale & Dr Prachi Koli
Learning objectives of elective	1.To observe and assist in Obstetrics examination 2. To observe and assist in Normal labor and delivery 3. To observe and assist Episiotomy 4. To observe C-section procedure
Number of students	5
Prerequisites for elective	Universal Safety Precautions, Empathy and Care towards patient.
Learning resources for students	DC Dutta's Textbook of Obstetrics
List of activities of student participation	1.To observe and assist in Obstetrics examination 2. To observe and assist in Normal labor and delivery 3. To observe and assist Episiotomy 4. To observe C-section procedure 4. To observe and assist junior residents in ward work
Portfolio entries required	Daily activities and procedures observed
Log book entry required	Daily logbook maintenance
Assessment	DOPS, SAQ, Viva, Reflective writing



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Name of Block	Block 2
Name of Elective	Gynecology-Skill based orientation
Location	Government Medical College Alibag & District hospital Raigad. First floor, IDP building, Ground floor, Gynecology-OPD
Name of internal preceptor(s)	Dr Rajashree Bhosale & Dr Prachi Koli
Learning objectives of elective	<ol style="list-style-type: none"> 1. To observe and assist in per speculum and per vaginal examination procedure 2. To observe and assist in visual inspection of Cervix 3. To observe and assist in Pap smear sample collection 4. To observe and assist Intrauterine Contraceptive Device insertion & removal
Number of students	5
Prerequisites for elective	Universal Safety Precautions, Empathy and Care towards patient.
Learning resources for students	DC Dutta's Textbook of Gynecology
List of activities of student participation	<ol style="list-style-type: none"> 1. To observe and assist in per speculum and per vaginal examination procedure 2. To observe and assist in visual inspection of Cervix 3. To observe and assist in Pap smear sample collection 4. To observe and assist Intrauterine Contraceptive Device insertion & removal
Portfolio entries required	Daily activities and procedures observed
Log book entry required	Daily logbook maintenance
Assessment	DOPS, SAQ, Viva, Reflective writing



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Name of Block	Block 2
Name of Elective	Infertility & Antenatal patient care -workup orientation
Location	Government Medical College Alibag & District hospital Raigad. First floor, IDP building & Ground floor, Ante-natal OPD no4
Name of internal preceptor(s)	Dr Rajashree Bhosale & Dr Prachi Koli
Learning objectives of elective	<ol style="list-style-type: none"> 1. Identify the infertile couple 2. Identify the reasons of infertility 3. Counsel about the various investigations in infertility 4. Discuss about the various management for infertility 5. To enlist investigations carried out in Antenatal patients 6. To observe and assist in reporting of Antenatal care investigations 7. To observe and assist in Ante-natal patient care counselling
Number of students	2
Prerequisites for elective	Willingness to work and maintain confidentiality between the couple and the doctors
Learning resources for students	Books -Infertility -Kamini Rao, DC Dutta's Textbook of Obstetrics
List of activities of student participation	<ol style="list-style-type: none"> 1. Enumerate causes of infertility 2. Enumerate investigations for infertility 3. Enumerate various management for infertility 4. Enlist investigations carried out in Antenatal patients 5. Observe and assist in reporting of Antenatal care investigations 6. Observe and assist in Ante-natal patient care counselling <p>Work daily under supervision and take meticulous history Maintain confidential data shared by patients learn to gain patients confidence with the doctor</p>
Portfolio entries required	Daily activities assisted and observed
Log book entry	Daily logbook maintenance
Assessment	SAQ, Viva, Reflective writing



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Name of Block	Block 1
Name of Elective	Museum Techniques & Window Dissection in Anatomy
Location	Anatomy Dissection hall- Government Medical College Alibag
Name of internal preceptor(s)	Dr. Santosh Waghmode, Dr. Rupali Kavitate
Learning objectives of elective	<p>By the end of elective student should be able to–</p> <ol style="list-style-type: none"> 1. Enumerate types of Dissection techniques in anatomy 2. Enumerate steps of window dissection technique 3. Enumerate instruments used for window dissection 4. Assist/ Perform window dissection of a given region for mounting 5. Enumerate steps of mounting of dissected specimen 6. Enumerate reagents and instruments required for mounting specimen 7. Assist/Perform- Mounting of dissected specimen in a museum acrylic jar
Number of students	Up to 3 students
Prerequisites for elective	<p>Knowledge of Dissection techniques Knowledge of museum techniques Uses of various chemicals in preparation</p>
Learning resources for students	<p>Cunningham's Manual of Practical Anatomy Grant's Dissector by Alan Detton Textbook of Medical Laboratory Technology-Godkar</p>
List of activities of student participation	<ol style="list-style-type: none"> 1. Observe, Assist & Perform window dissection of a given region for mounting 2. Observe, Assist & Perform- Mounting of dissected specimen in a museum acrylic jar 3. Seminar presentation
Portfolio entries required	Daily activities observed, assisted and performed
Log book	Daily activities, Reflection writing
Assessment	SAQ, Viva voce, Reflection writing, Seminar presentation


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Name of Block	Block 1
Name of Elective	Interpretation of Lab reports & Quality control in Biochemistry Laboratory
Location	Department of Biochemistry. Government Medical College Alibag
Name of internal preceptor(s)	Dr Ganesh Ghuge, Dr. Amol Shinde, Dr Santosh Bidwe, Dr. Ganesh Ghanwat, Mrs Bhagyashree
Learning objectives of elective	<p>student should be able to :</p> <ol style="list-style-type: none"> 1. Enlist investigations carried out under Department of Biochemistry 2. Observe the routine investigations (LFT,RFT, Blood glucose) carried out in Biochemistry lab. 3. Interpretation of LFT, RFT & TFT reports 4. Interpretation of Recent Cardiac Biomarkers 5. Interpretation of ABG reports 6. Correlation of biochemical findings with patient diagnosis & management 7. Need of Quality control in Biochemistry lab 8. Basic statistic required for quality control. 9. Errors in Laboratory. 10. Internal Quality control (IQC), Levey-Jennings's Chart and External quality control (EQC)
Number of students	10
Prerequisites for elective	Willingness to engage in discussions and group tasks.
Learning resources	TIETZ TEXTBOOK OF CLINICAL CHEMISTRY AND MOLECULAR DIAGNOSTICS
List of activities of student participation	<ol style="list-style-type: none"> 1. Enlist investigations carried out under Department of Biochemistry 2. Observe the routine investigations (LFT,RFT, Blood glucose) carried out in Biochemistry lab. 3. Interpretation of LFT, RFT & TFT reports 4. Interpretation of Recent Cardiac Biomarkers 5. Interpretation of ABG reports 6. Correlation of biochemical findings with patient diagnosis & management 7. Need of Quality control in Biochemistry lab 8. Basic statistic required for quality control. 9. Errors in Laboratory. 10. Internal Quality control (IQC), Levey-Jennings's Chart and External quality control (EQC)
Portfolio entries	Daily activities observed and assisted. Group discussions.
Log book entry	Record of sessions attended and tasks completed. Daily activities observed
Assessment	SAQ, and Viva, Reflective writing


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Head of the Department
Biochemistry


Dr Purwa Patil
Dean GMC Alibag


Name of Block	Block I
Name of Elective	Relationship between Perceived Exertion and Physiological Measures
Location	Department of Physiology, Government Medical College Alibag
Name of internal	Dr. Nikhil Gode, Dr. Veena Shriram
Learning objectives of elective	<ol style="list-style-type: none"> 1. Explain the concept of Ratings of Perceived Exertion (RPE) and its different scales (e.g., Borg's Scale, 6-20 scale). 2. Understand the physiological basis of RPE and its relationship with physiological parameters like heart rate, blood pressure, and ventilation. 3. Learn to assess RPE during various exercise modalities (e.g., treadmill running, cycling, step test). 4. Analyze the correlation between RPE and objective physiological measures (heart rate, blood pressure, oxygen consumption [VO₂], lactate levels). 5. Apply the knowledge of RPE in exercise prescription and monitoring exercise intensity. 6. Understand the limitations and clinical applications of RPE in different patient populations.
Number of students	02
Prerequisites for elective	<ol style="list-style-type: none"> 1. Basic knowledge of human physiology (cardiovascular, respiratory, muscular systems). 2. Understanding of exercise physiology principles (e.g., cardiovascular adaptations to exercise)
Learning resources	<p>Learning resources:</p> <ul style="list-style-type: none"> • Textbooks: Guyton and Hall Textbook of Medical Physiology, Ganong's Review of Medical Physiology, McArdle, Katch, and Katch: Exercise Physiology: Energy, Nutrition, and Human Performance • American College of Sports Medicine (ACSM) guidelines • Relevant research articles from peer-reviewed journals
List of activities of student participation	<ol style="list-style-type: none"> 1. List of activities in which two students will participate: 2. RPE assessment during graded exercise tests: 3. Treadmill running test 4. Cycle ergometer test 5. Step test 6. Record RPE at regular intervals during each test. 7. Monitor heart rate, blood pressure, and if possible, respiratory exchange (VO₂) simultaneously. 8. Correlation analysis: 9. Analyze the relationship between RPE and objective physiological measures (heart rate, blood pressure, VO₂) using statistical software. 10. Case studies: 11. Analyze case studies involving exercise prescription and monitoring using RPE. 12. Discuss the application of RPE in different clinical settings (e.g., cardiac rehabilitation, pulmonary rehabilitation).
Portfolio entries	•Schedule followed, Record of observations (including RPE, heart rate, blood pressure, etc.), Data analysis and interpretation, Case study analysis, Self-reflection on learning.
Log book entry	75% attendance with active participation, Successful completion of all activities, Quality of portfolio entries (data analysis, interpretation, reflections), Logbook entries, Presentation of findings (if applicable), Overall understanding of the relationship between RPE and physiological measures
Assessment	SAQ, and Viva, Reflective writing



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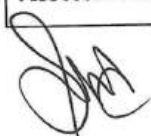


Head of the Department



Dr Purwa Patil
Dean GMC Alibag


Name of Block	Block 1
Name of Elective	Effect of Acute Exercise on QT Dispersion
Location	ECG lab, Department of Physiology. Government Medical College Alibag
Name of internal	Dr. Nikhil Gode, Dr. Veena Shriram
Learning objectives of elective	<ol style="list-style-type: none"> 1. Understand the principles of electrocardiography (ECG) and the interpretation of normal ECG waveforms. 2. Learn to perform a standard 12-lead ECG accurately. 3. Understand the concept of QT interval, QT dispersion, and their physiological significance. 4. Investigate the effects of acute exercise on QT interval and QT dispersion. 5. Analyze ECG data and draw conclusions regarding the impact of exercise on cardiac repolarization. 6. Develop skills in data collection, analysis, and presentation.
Number of students	02
Prerequisites for elective	<p>Basic knowledge of cardiac physiology (e.g., cardiac action potential, conduction system).</p> <p>Understanding of basic ECG principles (e.g., waveforms, leads, interpretation of normal ECG).</p>
Learning resources	<p>Learning resources:</p> <p>•Textbooks: Guyton and Hall Textbook of Medical Physiology.</p>
List of activities of student participation	<ol style="list-style-type: none"> 1. Perform resting 12-lead ECG on healthy volunteers. 2. Conduct a standardized exercise protocol (e.g., treadmill test, cycle ergometer test) on volunteers. 3. Record post-exercise 12-lead ECGs. 4. Measure QT interval in each lead for both resting and post-exercise ECGs. 5. Calculate QT dispersion (difference between the longest and shortest QT intervals). 6. Analyze the data collected using appropriate statistical methods. 7. Prepare a presentation summarizing the findings and their implications.
Portfolio entries	<p>Daily logbook entries documenting procedures, observations, and data collected. ECG recordings and measurements for each subject.</p> <p>Data analysis and interpretation (including statistical analysis and graphs). Presentation slides summarizing the findings.</p>
Log book entry	75% attendance with active participation, Successful completion of all activities, Quality of portfolio entries (data analysis, interpretation, reflections)
Assessment	SAQ, Viva, Reflective writing



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Dr Purwa Patil
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Name of Block	Block 1
Name of Elective	Pharmacovigilance
Location	Department of Pharmacology, Govt. Medical College Alibag-Raigad
Name of Internal Preceptor (S)	Dr. Vishal Ubale, Dr. Arvind Salve, Dr. Adwait Darshetkar
Learning objectives of the elective	1.To Demonstrate the adverse effects of commonly available drugs. 2.To demonstrate the adverse effects of specialized drugs 3.To demonstrate vigiflow technique for reporting the adverse drug reaction to PvPI. 4.To demonstrate of how to fill adverse drug reaction form. 5.Demonstration of various means for reporting adverse drug reaction
Number of students	05
Prerequisites for the elective	Must have learned about adverse drug reaction
Learning resources for students	Essentials Of Medical Pharmacology By KD Tripathi, 9th Edition.
List of activities in which the student will participate	1.Work dialy with supervisor in observing, reporting, adverse drug reaction to PvPI (Pharmacovigilance program of India) 2.Participation in reporting adverse drug reaction through vigiflow technique. 3.Participate in afternoon teaching session of department. 4.Detection, Assessment, Understanding, Prevention & Reporting of adverse drug reaction.
Portfolio entries required	1.Documentation of Adverse drug reaction 2.Reporting of ADR to PvPI.
Log book entry required	Satisfactory completion of posting by internal
Assessment	Formative, Attendance, Viva, SAQ Successful verification of required, Portfolio entries, Successful completion of the posting as certified in the log book with a "meets expectation 'M' grade



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Dr Purwa Patil
Dean GMC Alibag


Name of Block	Block 1
Name of Elective	Orientation in Microbiology Laboratories
Location	Government Medical College Alibag- District Hospital Raigad-Microbiology Laboratories- Bacteriology, Serology, Mycology & Parasitology, Molecular labs
Name of internal preceptor(s)	Dr. Rashmi Bawane, Dr Manish Ash, Dr Gitanjali Pevekar, Technicians-Sneha, Adinath, Pooja, Sakshi, Sayli
Learning objectives of elective	<ol style="list-style-type: none"> 1.To enlist the available investigations conducted under Microbiology Lab 2. To understand the basic principles and working of Bacteriology Lab, Serology lab, Mycology lab, Parasitology lab, Virology/Molecular Lab 3. To observe and assist in Card Test- HIV, HBsAg, HCV, Malaria, Dengue, Leptospirosis 4.To observe ELISA testing procedure 5.To observe and assist in culture & Sensitivity testing procedure 6.To observe & assist in Antibiotic susceptibility testing 7.To identify parasites in given stool samples
Number of students	10
Prerequisites for elective	Universal safety precautions
Learning resources for students	Apurba S Sastry-Essentials of Medical Microbiology 3E
List of activities of student participation	<ol style="list-style-type: none"> 1. To enumerate all the enlisted investigations observed under Microbiology 2. To understand the basic principles and working of Bacteriology Lab, Serology lab, Mycology lab, Parasitology lab, Virology/Molecular Lab 3. To observe and assist in Card Test- HIV, HBsAg, HCV, Malaria, Dengue, Leptospirosis 4. To observe ELISA testing procedure 5. To observe and assist in culture & Sensitivity testing procedure 6. To observe & assist in Antibiotic susceptibility testing 7. To identify parasites in given stool samples
Portfolio entries required	Yes
Log book entry	Daily activities and tests assisted and observed
Assessment	MCQ, SAQ, DOPS, Reflective writing, Viva



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Dr Purwa Patil
Dean GMC Alibag

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GOVERNMENT MEDICAL COLLEGE, ALIBAG, RAIGAD
DEPARTMENT OF FORENSIC MEDICINE

ELECTIVES-1

Name of Block- Block 1

Name of Elective- Postmortem Examination

Location - Mortuary, Government Medical College Alibag & District Hospital Raigad

Preceptor- Dr Vaibhav Sonar

Learning objectives of the elective-

1. To enumerate the types of autopsies.
2. To enumerate the objectives of autopsies.
3. To enumerate legal requirements to conduct Autopsies.
4. To enumerate the various instruments required for performing autopsies.
5. To demonstrate external examination of dead body.
6. To demonstrate various incisions used for autopsy.
7. To demonstrate various autopsy techniques.
8. To demonstrate collection, preservation, packing, labelling and sealing of samples in autopsy cases.

Number of students that can be accommodated in this elective- 10

Prerequisites for the elective- Universal Safety Precautions

Learning resources for students- Forensic Medicine textbooks.

List of activities in which the student will participate-

1. Observing and assisting Forensic doctors in conducting Autopsies.
2. Observing and assisting Forensic doctors in filling up Provisional cause of death certificates & Viscera forms)
3. Participate in department teaching activities.

Portfolio entries required

1. Documentation of autopsies assisted.

Log book entry required- Completion of posting signed by preceptor.

Assessment- attendance, participation in academic activities and presentation of autopsies assisted.



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DR. VAIBHAV SONAR
Head of the Department



Dr Purwa Patil
Dean GMC Alibag

GOVERNMENT MEDICAL COLLEGE, ALIBAG, RAIGAD
DEPARTMENT OF FORENSIC MEDICINE
ELECTIVES-2

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Name of Block- Block 1

Name of Elective- Medicolegal importance of Brain in Autopsy

Location- Mortuary, Government Medical College Alibag & District Hospital Raigad

Name of internal preceptors- Dr Vaibhav Sonar

Learning objectives of the elective-

1. To describe Anatomy of Brain.
2. To describe procedure for removal of brain from dead bodies in autopsy cases.
3. To enumerate various injuries & hemorrhages that can occur in brain along with its causes.
4. To correlate external damage to scalp and skull with intracranial hemorrhages & brain injuries.
5. To demonstrate removal of brain and its dissection in autopsy cases.
6. To demonstrate preservation of whole brain for histopathology purpose.

Number of students that can be accommodated in this elective- 10 Prerequisites for the elective- Universal safety precautions

Learning resources for students- Forensic Medicine textbooks.

List of activities in which the student will participate-


1. Observing and assisting Forensic doctors in removal of brain from dead bodies.
2. Observing and assisting Forensic doctors in conducting autopsies in cases of Head injuries and Intracranial hemorrhages.
3. Participate in department teaching activities.

Portfolio entries required

1. Documentation of brain anatomy.
2. Documentation of cases of head injuries and intracranial hemorrhages. Log book entry required- Completion of posting signed by preceptor.

Assessment- attendance, participation in academic activities and demonstration of brain dissection.

Name and signature of Head of the Department

 DR. VAIBHAV SONAR


MEU Coordinator


Dr Purwa Patil
Dean GMC Alibag

Name of Block	Block 1
Name of Elective	Research Methodology and Manuscript Writing
Location	First floor, Department of Community Medicine, GMC Alibag
Name of Internal Preceptor(s)	Dr. Nazia Khan
Learning Objectives	1. Understand principles of research methodology, including study design and data analysis. 2. Learn the structure and components of a scientific manuscript. 3. Gain hands-on experience in preparing and editing a manuscript for submission.
Number of Students	05
Prerequisites	1. Basic knowledge of biostatistics and research ethics. 2. Willingness to engage in discussions and group tasks.
Learning Resources	1. "Research Methodology: Methods and Techniques" by C.R. Kothari. 2. Online tutorials and journal articles provided by the preceptor. 3. Research databases for literature review (e.g., PubMed, Scopus).
Student Activities	1. Attend lectures and interactive sessions on research methodology. 2. Conduct literature reviews on assigned topics. 3. Participate in group discussions on study design and data analysis. 4. Draft sections of a manuscript (abstract, introduction, methods, etc.).
Portfolio Entries	1. A detailed literature review report on an assigned topic. 2. A draft manuscript prepared during the elective.
Log Book Entry	Daily record of sessions attended and tasks completed.
Assessment	1. Submission and presentation of the manuscript draft. 2. Oral viva to evaluate understanding of research principles and writing techniques.
Other Comments	Students are encouraged to choose manuscript topics of personal interest and seek regular guidance.


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Head of the Department


Dr Purwa Patil
Dean GMC Alibag

Name of Block	Block 1
Name of Elective	AI in Research
Location	-Department of Community Medicine. GMC Alibag
Name of Internal Preceptor(s)	-Dr.Deodatt M Suryawanshi(AssistantProfessor)
Name of External Preceptor	-Dr Sharon Basil(external Experton AI in medicine)
Learning Objectives of Elective	By. the end of the Elective,the student will be able to: 1. Familiarize with prompt engineering and brainstorming research topics using ChatGPT, Perplexity AI & Gemini. 2. Gainhands-on experience in literature review using Research Rabbitt and Consensus, exploratory data analysis, and model development. 3. Master reference management with Zotero. 4. Use AI tools for data analysis both Qualitative and Quantitative. 5. Read AI generated CTscan and Xray report. 6. Complete Manuscript writing in 30 minutes.
Number of Students	-Upto 5students per Block/Elective session
Prerequisites for Elective	-Basic understanding of research methods and medical statistics. -Familiarity with basic computer skills(e.g.,MSEXcel,basic programming concepts)
Learning Resources for Students	- Recommended textbooks (e.g., <i>Machine Learning in Medicine</i> by A. Holmesetal.).Journal articles on AI applications in clinical research.
List of Activities for Student Participation	<ol style="list-style-type: none"> Hands-on Workshops in Prompt engineering and generating research Ideas Review of literature by using AI by Research rabbit and Consensus Data cleaning and analysis done by AI Manuscriptwriting.
Portfolio Entries Required	-Reflective write-up on AI applications in clinical research -Case study of AI implementation in a specific patient cohort or research scenario
LogBook Entry	Preparation of two Review manuscripts by each student
Assessment	<ol style="list-style-type: none"> Continuous Assessment based on participation in workshops & Project/Presentation:Students to present a small research project or AI model results Final Reflection:Written or verbal reflection on the elective experience and learning outcomes
Other Comments	-Students are encouraged to bring their own laptops. Maintaining patient confidentiality and following institutional data protection guidelines is mandatory.



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Head of the Department



Dr Purwa Patil

Dean GMC Alibag

Name Of Block	Block 1
Name of Elective	Histopathology-Orientation
Location of hospital or research facility	Government Medical College Alibag- District Hospital Raigad - Histopathology Lab
Name of internal preceptor	Dr. Shilpa Narayankar & Shwetal Naik
Learning objectives of elective	1.To Observe Grossing of specimens 2.To Observe Histotechniques 3. To Observe Staining procedure. 4. To Identify the microscopy features 5.To correlate microscopy features with gross features
Number of students	06
Prerequisites for elective	Universal safety precautions
List of activities of student participation	1. Observe Grossing & of specimens 2. Observe Histotechniques 3. Observe Staining procedure. 4. Identify the microscopy features 5. Correlate microscopy feature with gross features
Learning Resources	1.Robbins & Cotran pathologic basis of disease 2. Textbook of Medical Laboratory Technology by Praful B Godkar
Portfolio entries required	Lab Notes and work book entries; Presentations done
Log book entry required	Satisfactory completion of posting authenticated by 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". SAQ, Daily Viva & Reflective writing, DOPS



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Dr Purwa Patil
Dean GMC Alibag


Name Of Block	Block 1
Name of Elective	Cytopathology-Orientation
Location of hospital or research facility	Government Medical College Alibag- Civil Hospital Raigad District-Cytopathology Lab
Name of internal preceptor (s)	Dr. Priyanka Surve & Smita Tupat
Learning objectives of elective	<ol style="list-style-type: none"> 1.To Observe FNAC procedure 2.To Observe FNAC Sample processing 3. To Observe PAP smear Sample processing 4. To Observe staining procedure. 5.To Observe the microscopic findings of PAP as per Bethesda system 6. To correlate the microscopic findings with clinical findings 7.To Observe the microscopy findings of FNAC as per Orell & Sterrett's Fine Needle Aspiration Cytology
Number of students	02
Prerequisites for elective	Universal precaution & good lab practices modules to be completed
List of activities of student participation	<ol style="list-style-type: none"> 1.Observe FNAC procedure 2. Observe FNAC Sample processing 3. Observe PAP smear Sample processing 4. Observe staining procedure. 5.Observe the microscopic findings of PAP as per Bethesda system 6. Correlate the microscopic findings with clinical findings 7. Observe the microscopy findings of FNAC as per Orell & Sterrett's Fine Needle Aspiration Cytology
Learning Resources	Orell & Sterrett's Fine needle Aspiration Cytology Cythology Diagnostic Principles and Clinical Correlates by Edmund S. Cibas, Barbara S.Ducatman
Portfolio entries required	Lab Notes and work book entries; Presentations done
Log book entry required	Satisfactory completion of posting authenticated by 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" SAQ, Daily Viva & Reflective writing.



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Dr Purwa Patil
Dean GMC Alibag

Name Of Block	Block 1
Name of Elective	Hematology -Orientation
Location	Government Medical College Alibag- District Hospital Raigad-Hematology Lab
Name of internal preceptor (s)	Dr. Swati Arora & Chetna Mukadam
Learning objectives of elective	<ol style="list-style-type: none"> 1.To Observe Blood Collection for haematology 2.To Observe Sample labelling & processing 3. To Observe Sample processing for complete blood count 4. To prepare peripheral smear 5.To interpret peripheral smear findings 6. To correlate CBC report findings with peripheral smear. 7.To identify parasites in given peripheral smears.
Number of student	06 Student 8 am to 2 pm- 03; 2 pm to 8 pm- 03
Prerequisites for elective	Universal precaution
List of activities of student participation	<ol style="list-style-type: none"> 1. Observe Blood Collection for haematology 2.Observe Sample labelling & processing 3. Observe Sample processing for complete blood count 4. Prepare peripheral smear 5. Interpret peripheral smear findings 6. Correlate CBC report findings with peripheral smear. 7. Identify parasites in given peripheral smears.
Learning Resources	<ol style="list-style-type: none"> 1.Essentials of Clinical Pathology, Shirish M Kawthalkar 2.Tejindar Singh, Practical Pathology
Portfolio entries required	Lab Notes and work book entries; Presentations done
Log book entry required	Satisfactory completion of posting authenticated by 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”



MEU Coordinator



Head of the Department



Dr Purwa Patil

Dean GMC Alibag

Name Of Block	Block 2
Name of Elective	Blood Transfusion-Orientation
Location	Government Medical College Alibag- District Hospital Raigad- Blood Centre
Name of internal preceptor (s)	Dr. Shital Swami, Dr. Deepak Gosavi, Abhishek Gharat, Ramkumar Nikas
Learning objectives of elective	1.To Observe Donor screening procedure 2.To Observe Blood collection procedure 3. To Observe component separation procedure 4. To Observe TTD testing procedure 5.To Observe Blood grouping & cross matching 6. To Observe Blood issue procedure 7.To Observe Blood Transfusion procedure in ward 8. To Observe Adverse Reactions in donor & Patient 9. To Observe Management of Donor & Patient adverse reactions.
Number of students	04 8 8 am to 2 pm-02; 2 pm to 8 pm-02
Prerequisites for elective	Universal precaution & good lab practices modules to be completed
Learning Resources for students	Transfusion Medicine Technical Manual-DGHS WHO
List of activities in which the student will participate	1. Observe Donor screening procedure 2. Observe Blood collection procedure 3. Observe component separation procedure 4. Observe TTD testing procedure 5. Observe Blood grouping & cross matching 6. Observe Blood issue procedure 7. Observe Blood Transfusion procedure in ward 8. Observe Adverse Reactions in donor & patient 9. Observe Management of Donor & patient adverse reactions.
Portfolio entries required	Lab Notes and work book entries; Presentations done
Log book entry	Satisfactory completion of posting authenticated by 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". SAQ, Daily Viva & Reflective writing, DOPS


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