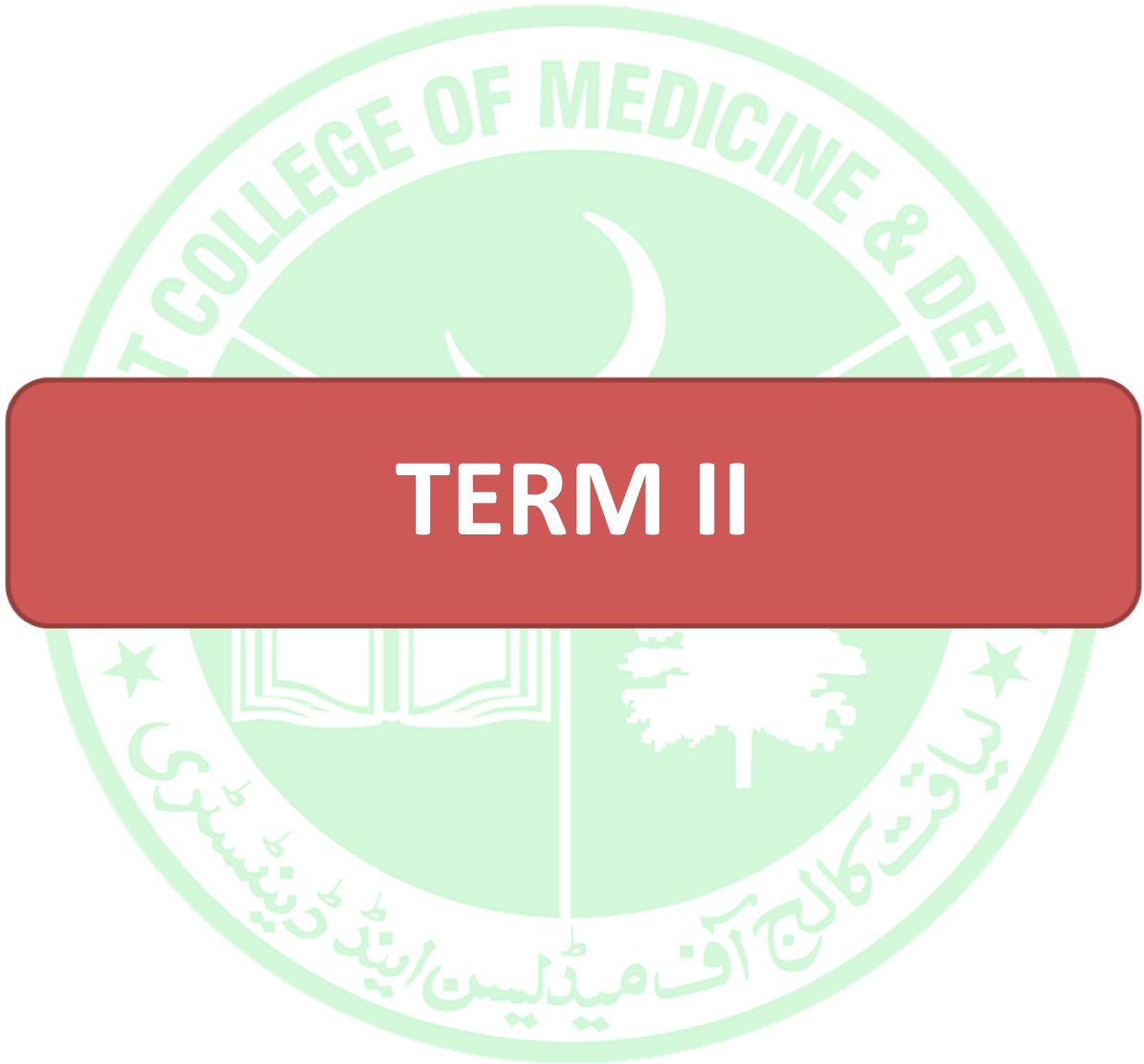




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OPERATIVE DENTISTRY

COURSE TOPIC: Management of Deep Carious Lesion

Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Management of Deep Carious Lesion	<ul style="list-style-type: none"> ➤ Define the following terms: <ul style="list-style-type: none"> i) Stepwise excavation ii) Indirect pulp cap iii) Direct pulp cap (carious and iatrogenic) ➤ Describe the rationale of stepwise excavation of carious lesion ➤ Discuss various possible reactions of pulp-dentin complex to deep carious lesion ➤ Enumerate materials that can be used for direct and indirect pulp cap ➤ Describe the clinical protocol for direct and indirect pulp cap procedures ➤ By the end of the Operative OPD rotation student should be able to: ➤ Plan treatment according to the extent of carious lesion. ➤ Demonstrate the clinical protocol for direct and indirect pulp cap on patients. 	Flip Classroom (1)	Tutorial/ Small Group Discussion	Class Test Quiz Class Participation Final Examination

COURSE TOPIC: ASSESSMENT OF RADIOGRAPHS

Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Processing And Interpretation Of Radiographs	<ul style="list-style-type: none"> ➤ Describe x-ray equipment, films and processing of x-rays. ➤ Describe importance of radiographs in operative dentistry. ➤ Discuss ADA guidelines for prescribing radiographs. ➤ Identify anatomical and pathological structures of maxilla and mandible on a: <ul style="list-style-type: none"> i. Peri apical x-ray, ii. Bitewing x-ray, iii. Occlusal x-ray, iv. Orthopantomogram (OPG) ➤ Discuss the indications and limitations of the following x-rays views for diagnostic purposes: <ul style="list-style-type: none"> v. Periapical x-ray, vi. Bitewing x-ray, vii. Occlusal x-ray, viii. Orthopantomogram (OPG) ➤ List indications of CBCT in restorative dentistry and endodontics ➤ Interpret pathological findings seen on radiographs. ➤ Describe the biological effects of radiation 	Lecture (2)		Quiz Class Participation Final Examination (OSCE)



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	<ul style="list-style-type: none"> ➤ Enumerate extra oral and intra oral radiographic films. By the end of the Operative OPD rotation the student should be able to: ➤ Identify the type of radiograph. ➤ Identify the anatomical structures observed in the radiograph. ➤ Identify the pathological findings seen in the radiograph. ➤ Demonstrate application of radiation protection equipment on patient before taking radiographs on patient. ➤ Demonstrate the radiograph taking and processing under supervision. ➤ Counsel the simulated patient/ given patient regarding findings of radiographs, their implication and possible solution. 		<p>Tutorial/ Small Group Discussion</p> <p>On patient/ Simulated patient</p>	OSATS
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COURSE TOPIC: PRINCIPLES OF CAVITY DESIGN AND PREPARATION				
Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Principles of Cavity Design and Preparation	<ul style="list-style-type: none"> ➤ Enumerate the objectives of tooth preparation ➤ List factors that need to be considered before tooth preparation. ➤ Describe G.V Black's principle of tooth preparation and compare with current concepts. ➤ List the steps in the initial and final stages of tooth preparation. ➤ State shortcomings of Black's cavity classification. ➤ Describe the advances in material science that have made cavity preparation minimally invasive. 	Lecture (1) TBL (1)		Class Participation Group Assignment Final Examination



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COURSE TOPIC: INSTRUMENTS AND EQUIPMENT FOR TOOTH PREPARATION				
Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Instruments and Equipment for Tooth Preparation	<ul style="list-style-type: none"> ➤ List various cutting and non cutting hand instruments. ➤ Discuss the design features for hand cutting instruments. ➤ Discuss common design characteristics of rotary cutting instruments (dental burs) ➤ Discuss the nomenclature for hand cutting instruments. ➤ Describe sharpening procedure of hand instruments. ➤ Describe rotary cutting equipment and instruments ➤ Describe the various instrument grasp techniques that can be employed. ➤ Describe latest developments for tooth preparation and caries removal including: <ul style="list-style-type: none"> i) Lasers, ii) Ozone, iii) Air abrasion. ➤ Discuss hazards with cutting instruments and their prevention. <p>By the end of the Operative OPD rotation the student should be able to:</p> <ul style="list-style-type: none"> ➤ Identify the hand and rotatory instrument. ➤ Demonstrate correct selection of an instrument for the required task. ➤ Demonstrate various instrument grasp techniques that can be employed. 	Lecture (2)	Tutorial/ Small Group Discussion On Patient	Class Participation Final Examination OSCE

COURSE TOPIC: AMALGAM RESTORATIONS				
Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Amalgam Restorations	<ul style="list-style-type: none"> ➤ Discuss chemistry of dental amalgam. ➤ List advantages and disadvantages of amalgam restorations. ➤ Discuss mercury hazards and hygiene. 	Lecture (5)	Tutorial/ Small Group Discussion	Class Test Class Participation Final Examination
Class I cavity preparation for amalgam restoration.	<ul style="list-style-type: none"> ➤ Describe the outline form of a class 1 cavity for amalgam restoration. ➤ Discuss ways of improving resistance and retention form of a simple class 1 restoration. ➤ Justify ways of improving resistance and retention of complex class 1 restorations. ➤ Describe bonded amalgam restorations. ➤ Describe the mechanism of amalgam bonding. ➤ Describe placement of amalgam in simple and complex class 1 cavities. <p>By the end of the Operative OPD rotation the student should be able to:</p> <ul style="list-style-type: none"> ➤ Demonstrate the cavity preparation of class I and restoration on phantom teeth and 			OSATS



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	<p>patients in operative OPD.</p> <ul style="list-style-type: none"> ➤ Demonstrate the handling and manipulation of amalgam restoration on phantom teeth and patients in operative OPD. ➤ Demonstrate the handling and disposal of mercury waste in class I. 			
Class II cavity preparation for amalgam restoration.	<ul style="list-style-type: none"> ➤ Describe class II cavity preparation for amalgam restoration. ➤ Explain outline form of a class II cavity for amalgam restoration. ➤ Discuss other cavity preparation designs e.g. box only preparation, tunnel preparation, slots preparation. ➤ Justify ways of improving resistance and retention form of a simple class II restoration. ➤ Discuss ways of improving resistance and retention of complex class II restorations. ➤ Justify the need for cuspal coverage with special reference to rule of thirds. ➤ Enumerate types of dentin pins. ➤ Describe method of placement of dentin pins. ➤ Discuss importance of matrices and wedging. ➤ List various types of matrix band systems. ➤ List various parts of tofflemire. ➤ Describe the method of using a tofflemire. <p>By the end of the Operative OPD rotation the student should be able to:</p> <ul style="list-style-type: none"> ➤ Demonstrate the cavity preparation of class II and restoration on phantom teeth and patients in operative OPD. ➤ Placement of tofflemire and wedge on patient when restoring multi surface cavities. ➤ Demonstrate the handling and manipulation of amalgam restoration on phantom teeth and patients in operative OPD ➤ Demonstrate the handling and disposal of mercury waste in class II 	Lecture (2)	Tutorial/ Small Group Discussion On Patient	OSATS

COURSE TOPIC: ENDODONTIC MICROBIOLOGY

Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Endodontic Microbiology	<ul style="list-style-type: none"> ➤ Describe the routes of entry of microorganisms to the pulp and peri radicular tissues. ➤ Enumerate different types of endodontic infections. ➤ List the various microbial species involved in different types of endodontic infections. ➤ Describe ecology of endodontic microbiota and features of endodontic ecosystem. 	Lecture (1)		Class Test Class Participation



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COURSE TOPIC: PULP ANATOMY				
Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Pulp Anatomy	<ul style="list-style-type: none"> ➤ Correlate the shape of pulp system to root anatomy. ➤ Define pulp space. ➤ List significance of iatrogenic or developmental defects with age factors that may cause alterations in pulp anatomy. ➤ List major components of pulp space. ➤ Determine variations in the pulp system in apical third. ➤ Determine radiographic distance from occlusal/incisal surface to the roof of chamber. ➤ Describe accessory canals. ➤ Discuss relationship between anatomic, radiographic and actual location of apical foramen. ➤ By the end of the Operative OPD rotation the student should be able to: ➤ Identify the internal and external anatomy of teeth in sagittal and cross section. 	Lecture (2)	Tutorial/ Small Group Discussion	Class Test Quiz Class Participation Individual Assignment Final Examination

COURSE TOPIC: BONDING TO ENAMEL AND DENTINE				
Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Bonding to enamel and dentine	<ul style="list-style-type: none"> ➤ List advantages of adhesive techniques, over conventional/ non-adhesive methods. ➤ Describe the structure of enamel. ➤ Justify why it is a favorable substrate for bonding. ➤ Describe the structure of dentin ➤ Differentiate between the structure of enamel and dentine ➤ Discuss the effect of smear layer on dentin bonding. ➤ Explain the effect of Configuration Factor (C factor) on bonding. ➤ List scientific classification of modern adhesives. ➤ Explain the effect of acid conditioning on enamel. ➤ Discuss difficulties in dentine conditioning. ➤ Discuss chemistry of primers and adhesive resin (bonding agent). ➤ Explain the importance of hybridization for effective dentine bonding. ➤ Discuss Self-etch adhesives. ➤ Describe 1st - 7th generation adhesives. ➤ Summarize steps involved in enamel bonding. ➤ Summarize steps in dentin bonding. ➤ Describe the bond strength under optimal conditions. 	Lecture (3)		Class Test Class Participation Final Examination



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	<ul style="list-style-type: none"> ➤ Recognize visible changes in instruments that will predispose them to breakage. ➤ Explain techniques for sterilization and disinfection of endodontic instruments. ➤ Describe nickel titanium rotary instruments. By the end of the Operative OPD rotation the student should be able to: ➤ Identify different types of endodontic instruments. ➤ Demonstrate correct selection of an endodontic instrument for the required task. 		Tutorial/ Small Group Discussion	OSCE
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COURSE TOPIC: CLASS 5 RESTORATIONS & ROOT CARIES

Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Class 5 Restorations	<ul style="list-style-type: none"> ➤ Describe cavity preparation for class 5 restorations. ➤ Explain non-surgical and surgical techniques for isolating class 5 restorations. ➤ Discuss restorative materials available for restoring class 5 lesions. ➤ List ways of improving retention of class 5 composite restorations. By the end of the Operative OPD rotation the student should be able to: ➤ Prepare class V cavity and restore with appropriate material 	Lecture (2)	Extracted Tooth/On patient	Class Participation Final Examination OSATS
Diagnosis and Treatment of Root Caries	<ul style="list-style-type: none"> ➤ Define root caries. ➤ Describe appearance and location of root caries. ➤ List etiology and risk factors associated with root caries. ➤ Discuss preventive and chemotherapeutic strategies to manage root caries. ➤ Discuss available restorative materials for treating root caries. By the end of the Operative OPD rotation the student should be able to: ➤ Diagnose root caries based on clinical and radiographic findings ➤ Demonstrate removal of root caries on patients followed by preparation of root surface and restoration with appropriate material. 	Lecture (1)	On patient	Quiz Class Test Class Participation Final Examination



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COURSE TOPIC: ENDODONTIC RADIOLOGY

Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Endodontic Radiology	<ul style="list-style-type: none"> ➤ Describe importance of radiographs in endodontics. ➤ Identify normal anatomic structures of maxilla and mandible on periapical radiographs. ➤ Differentiate between endodontic and non-endodontic radiolucencies & radiopacities according to their characteristics. ➤ Explain radiographic characteristics of periapical lesions of endodontic origin. ➤ Justify reasons for varying horizontal and vertical cone angulations to create image shift. ➤ Describe the SLOB rule. ➤ Describe new technologies for radiographic imaging. By the end of the Operative OPD rotation the student should be able to: ➤ Identify endodontic and non endodontic finding on x-rays. ➤ Demonstrate the proper cone position for the paralleling technique according to the site of examination. ➤ Demonstrate the proper cone position for the bisecting technique according to the site of examination. ➤ Demonstrate SLOB rule of radiography while taking x-ray. 	Lecture (2)		Class Test Class Participation Group Assignment Final Examination
			Tutorial/ Small Group Discussion	OSATS
			On Patient	



ORAL SURGERY

COURSE TOPIC: MANAGEMENT OF ORAL PATHOLOGIC LESIONS

Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Surgical management of oral pathologic lesion Segment 1: Diagnosis and management of cyst	1. Outline basic surgical goals of management of jaw cyst 2. Relate clinical findings with radiographic analysis 3. Elaborate on Surgical management of cysts and cyst like lesions of the jaws.	Lecture(2)	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment Group Test

COURSE TOPIC: MANAGEMENT OF ORAL PATHOLOGIC LESIONS

Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Segment 2: Diagnosis and management of Odontogenic tumors	1. Classify Odontogenic tumors 2. Describe Principles of surgical management of benign jaw tumors	Lecture(3)	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment Group Test
Segment 3: Treatment modalities	1. Enumerate different type of resections 2. Describe indications of resection of jaw tumor 3. List various reconstructive options	Lecture(3)		

COURSE TOPIC: INFECTIONS

Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Diagnosis and management of salivary gland disorders Segment 1: Salivary gland infection, obstructive disease & tumors.	1. Describe Embryology, Anatomy and Physiology of salivary gland. 2. Enlist Diagnostic Modalities 3. Define Mucous retention and extravasation phenomenon 4. Describe: <ol style="list-style-type: none"> i) Salivary gland infections ii) Necrotizing sialometaplasia iii) Sjogren's syndrome iv) Traumatic salivary gland injuries v) Salivary gland disorders vi) Obstructive salivary gland diseases 	Lecture(2)	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment Group Test
Segment 2: Clinical features, investigation & management of salivary gland disorders.	By the end of the Oral Surgery OPD rotation the student should be able to: <ol style="list-style-type: none"> 1. Classify the disorders of salivary glands 2. Diagnose and manage the patients with sialoliths (CBL) (OSCE) 	Lecture(2)		



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COURSE TOPIC: MANAGEMENT OF ORAL PATHOLOGIC LESIONS				
Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Segment 4: Clinical features. Investigation & diagnosis of cancer.	<ol style="list-style-type: none"> 1. Identify appropriate investigations 2. Describe Principles of surgical management of malignant jaw tumors 3. List various treatment modality available to treat malignant tumor <p>By the end of the Oral Surgery OPD rotation the student should be able to:</p> <ol style="list-style-type: none"> 1. Differentiate between different types of jaw cyst and tumors (CBL/opd patients) 2. Perform the examination of swelling (Simulated patient/ given patients) (OSCE/CLINICAL) 3. Formulate the management plan (OSCE/CLINICAL) 4. Identify the clinical and radiographic sign and symptoms of malignancy (CBL) 5. Perform the examination of Lymph nodes (Simulated patient/ given patients) (OSCE/CLINICAL) 6. Break the bad news (simulated patient/role play) communication skills 7. Demonstrate different types of biopsies (videos/CBL/opd patients) 8. Write referral letter (OSCE) 9. Managements of dental needs in patients on radiotherapy/chemotherapy 	Lecture (2)	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment Group Test
Principles of differential diagnosis & Biopsy Principles of differential diagnosis & Biopsy.	<ol style="list-style-type: none"> 1. List indication for biopsy 2. List factors indicating sign of malignancy 3. Illustrate examination and diagnostic methods 4. Evaluate patient for biopsy 5. List different type of biopsy 6. Compare different available types of biopsies 7. Explain technique for each type of biopsy 8. Outline Principles of biopsy 9. Describe <ol style="list-style-type: none"> i) technique of soft tissue biopsy ii) surgical principles of soft tissue biopsy iii) intraosseous or hard tissue biopsy technique iv) Surgical principles of hard tissue biopsy 10. Demonstrate referral writing 11. Write test for biopsy on sheet 12. Document premalignant & malignant cases for record purpose 	Lecture(1)		



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COURSE TOPIC: INFECTIONS				
Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
POST-EXTRACTION PATIENT MANAGEMENT	<ol style="list-style-type: none"> 1. Plan postoperative follow up visits after surgical extraction of tooth. 2. Document the procedure 3. Manage record keeping 4. Describe prevention of complications, after surgical tooth extraction. 5. Explain soft tissue injuries. 6. List complications associated with surgical removal of impacted teeth. 7. Describe orofacial communications. 8. Differentiate between OAC & OAF 9. Compare delayed healing and infection 10. Manage patient with Dry socket <p>By the end of the Oral Surgery OPD rotation the student should be able to:</p> <ol style="list-style-type: none"> 1. Formulate written consent for the procedure (role play) (OSCE) 2. Diagnose and manage post operative complications (OSCE/CLINICAL) 	Lectures 2	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment Group Test
MANAGEMENT OF HOSPITALIZED PATIENTS	<ol style="list-style-type: none"> 1. Describe the indications for hospitalization. 2. Outline the process of hospital admission for surgical patients. 3. Record complete medical history and perform clinical examination. 4. Interpret vital signs including temperature, pulse, respiration, and blood pressure. 5. Explain the importance of fluid and electrolyte balance. 6. Describe preoperative preparation before surgery. 7. Identify common postoperative complications. 8. Describe pain management strategies. 9. Explain infection control measures in the ward. 10. Outline postoperative monitoring and care. 11. Recognize systemic complications requiring urgent intervention. 12. Plan discharge instructions and follow-up. 	Lectures 2	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment Group Test



ORTHODONTICS				
COURSE TOPIC: CEPHALOMETRICS				
Lecture topic	Topic objectives	Mode of teaching		Assessment Tool
Introduction to cephalostat	By the end of lecture student will be able to: 1. Identify cephalostat and its parts. 2. Discuss the indications of cephalostat. 3. Demonstrate the procedure of tracing and interpretation of cephalometric X-ray on the basis of Downs, Stienen's and McNamara analysis.	Lecture	Lecture Demonstration in OPD Flipped classroom	<ul style="list-style-type: none"> BCQ VIVA OSPE
Indications for cephalometric evaluation				
Evaluating cephalometric radiograph. <ul style="list-style-type: none"> General points Planes and reference lines Downs and Stienen's analysis Soft tissue analysis Interpretation of cephalometric radiograph 				

COURSE TOPIC: DENTAL RADIOLOGY				
Lecture topic	Topic objectives	Mode of teaching		Assessment Tool
Dental radiology	By the end of lecture student will be able to: 1. Describe the roentgen anatomy of teeth, jaws, and TMJ 2. Describe variations in normal limits and abnormalities 3. Discuss proper patient positioning while taking the cephalometric radiograph 4. Explain radiation hazards 5. Discuss the advantages and indications of CBCT (Cone Beam Computer Tomography).	Lecture	Lecture and small group discussions	<ul style="list-style-type: none"> BCQ VIVA OSPE



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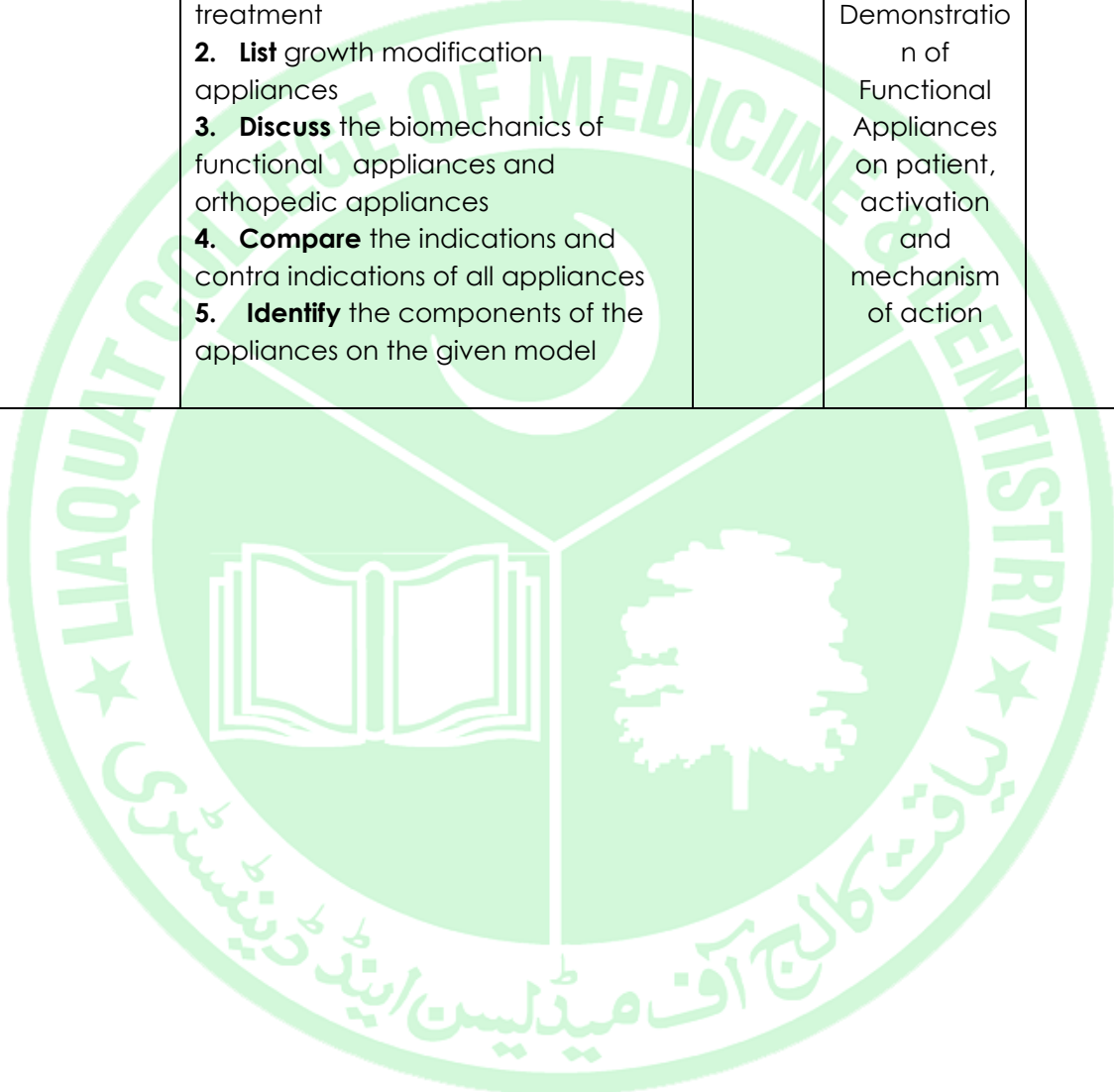
COURSE TOPIC: ORTHODONTIC REMOVABLE & FIXED APPLIANCES				
Lecture topic	Topic objectives	Mode of teaching		Assessment Tool
Removable appliances + Expansion appliances	<p>By the end of lecture student will be able to:</p> <ol style="list-style-type: none"> 1. Classify removable functional appliances. 2. Describe class II and Class III functional appliances 3. Discuss concepts, indications, drawbacks, components and accessories of growth modification appliances. 4. Discuss the biomechanics of fixed and removable growth modification appliances (Expanders, Facemask and chin cup) 	Lecture	Lecture Flipped classroom	<ul style="list-style-type: none"> • BCQ's • VIVA • OSPE
Fixed Appliances	<p>By the end of lecture student will be able to:</p> <ol style="list-style-type: none"> 1. Discuss the background of different fixed appliances system. 2. Discuss the indications, draw backs, components and accessories of fixed appliances. 3. Describe various types of wires and brackets used in orthodontics. 4. Describe various bonding and banding materials 5. Discuss orthodontic emergencies and their management (use of wax, sliding of wire, poking wire). 6. Describe the following: <ul style="list-style-type: none"> • Wire system • Bonding and banding material • Edgewise and straight 		Lecture Flipped classroom	



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COURSE TOPIC: ORTHODONTIC FUNCTIONAL APPLIANCES				
Lecture topic	Topic objectives	Mode of teaching		Assessment Tool
Removable appliances + Expansion appliances	By the end of lecture student will be able to: 1. Define growth modification treatment 2. List growth modification appliances 3. Discuss the biomechanics of functional appliances and orthopedic appliances 4. Compare the indications and contra indications of all appliances 5. Identify the components of the appliances on the given model	Lecture	Lecture Flipped classroom Demonstration of Functional Appliances on patient, activation and mechanism of action	<ul style="list-style-type: none">• BCQ's• VIVA• OSPE





PROSTHODONTICS				
COURSE TOPIC: COMPLETE DENTURE				
Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Occlusion / osmotic balance	<ol style="list-style-type: none"> Define occlusion Classify the types of occlusion in relation to complete dentures Describe the concept of Balanced occlusion Explain the characteristics of balanced occlusion Discuss the importance and general considerations related to balanced occlusion List the types of balanced occlusion Explain the factors influencing balanced occlusion 	Lecture	Practical	<p>Class Participation</p> <p>Term and final examination</p>
Maxillo-mandibular Relations	<ol style="list-style-type: none"> Vertical relations Horizontal relations 	Lecture Videos	Tutorial Practical	<p>Class Participation</p> <p>Term and final examination</p>
Facebow	<ol style="list-style-type: none"> Define facebow Discuss the purpose and advantages of using facebow List the parts of facebow List the types of facebow Describe the uses of facebow Discuss the procedures for facebow transfer 	Lecture Videos	Practical	<p>Class Participation</p> <p>Term and final examination</p>
Mandibular movements	<ol style="list-style-type: none"> Discuss the anatomy of temporomandibular joint Discuss the clinical significance of mandibular movements in relation to prosthesis Discuss the border movements of the mandible Describe the significance of gnathology in dental prosthetics. 	Lecture Videos		<p>Class Participation</p> <p>Term and final examination</p>
Articulators	<ol style="list-style-type: none"> Define articulators Explain the functions of articulator List down the types of articulators 	Lecture Videos	Practical	<p>Class Participation</p> <p>Term and final examination</p>



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	<ol style="list-style-type: none"> 4. Explain the advantages and limitations of articulators 5. Describe the purpose of an articulator 6. Discuss the minimum and additional requirements of articulator 7. Discuss the prosthetic use of <ol style="list-style-type: none"> i) Simple hinge articulator ii) The mean value articulator iii) Semi-adjustable articulator iv) Fully adjustable articulator 8. Describe the prosthetic importance of <ol style="list-style-type: none"> i) Protrusive records ii) Lateral records iii) Hanau formula 			
<p>Selection of artificial teeth and arrangement of artificial teeth</p>	<ol style="list-style-type: none"> 1. Describe the objectives of teeth selection 2. Explain the general considerations in teeth selection 3. Describe the size of teeth 4. Discuss the methods used to select size of teeth <ol style="list-style-type: none"> i) Methods using pre-extraction records ii) Methods using anthropological measurements of the patient iii) Methods using anatomical landmarks iv) Methods using theoretical concepts 5. Describe the factors in selection of artificial teeth <ol style="list-style-type: none"> i) Size of face ii) Inter-arch spacing iii) Distance between the distal ends of the maxillary cuspids iv) Length of lips v) Size and relation of arches vi) Size of posterior teeth 6. Discuss the factors affecting the shade selection of artificial teeth <ol style="list-style-type: none"> i) Hue ii) Saturation 	<p>Lecture Videos</p>	<p>Tutorial Practical</p>	<p>Class Participation</p> <p>Term and final examination</p> <p>DOPS</p>



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	<ul style="list-style-type: none"> iii) Translucency iv) Age v) Habit vi) Complexion vii) Color of eyes viii) Color of patient hair <p>7. Describe positioning and relationship of teeth</p> <p>8. Discuss advantages and disadvantages of</p> <ul style="list-style-type: none"> i) Anatomic teeth ii) Non-anatomic teeth <p>9. Explain the prosthetic importance of cusplless teeth</p> <p>10. Describe features in</p> <ul style="list-style-type: none"> i) Class-I relationship ii) Class-II relationship iii) Class-III relationship 			
The trial denture	<ol style="list-style-type: none"> 1. Define trial denture 2. Describe significance of trial denture 3. Discuss verification <ul style="list-style-type: none"> i) centric relation ii) centric occlusion iii) vertical relation 4. Illustrate the evaluation of <ul style="list-style-type: none"> i) Lip and cheek support ii) Occlusal plane iii) Posterior palatal seal iv) Esthetic v) Phonetics 	Lecture	Practical	<p>Class Participation</p> <p>Term and final examination</p>



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COURSE TOPIC: OCCLUSION/TMD				
Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Theories and Principles of Occlusion in all types of prosthesis (Fixed and removable)	<ol style="list-style-type: none"> 1. Describe optimum functional occlusion 2. Discuss the following occlusal scheme <ol style="list-style-type: none"> i) Canine guided ii) Group function iii) Mutually protected 3. Describe determinants of occlusal morphology <ol style="list-style-type: none"> i) Posterior controlling factors (Condylar guidance) ii) Anterior controlling factors (Anterior guidance) iii) Vertical determinants iv) Horizontal determinants 	Lecture	Small group Discussion	Class Participation Term and final examination
Concept, etiology, Treatment planning And treatment Option for occlusion	<ol style="list-style-type: none"> 1. Discuss the etiology of temporo-mandibular joint disorder syndrome. 2. Describe treatment options <ol style="list-style-type: none"> i) Supportive therapy <ol style="list-style-type: none"> a) Pharmacological therapy b) Physical therapy ii) Definitive therapy <ol style="list-style-type: none"> a) Reversible b) irreversible 	Lecture Videos		Class Participation Term and final examination

COURSE TOPIC: CROWN AND BRIDGES				
Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Classification Of Fixed Partial Denture	List classification of fixed partial denture <ul style="list-style-type: none"> • Class I • Class II • Class III 	Lecture		Class Participation Term and final examination
Fixed Partial Denture Types	<ol style="list-style-type: none"> 1. Describe indications, contraindication, advantages, disadvantages <ol style="list-style-type: none"> i) Conventional bridge 	Lecture		Class Participation Term and final examination



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	<ul style="list-style-type: none"> ii) Minimal preparation bridge iii) Fixed-fixed bridge iv) Cantilever bridge 			
Crown and types of crowns (Introduction)	<ol style="list-style-type: none"> 1. List various partial and full coverage restorations 2. Describe the principles of tooth preparation 3. Describe the indications and contraindications for provision of inlay and onlay 4. Describe clinical assessment required and steps of preparation for inlay and onlay 5. Discuss fluid management and soft tissue management 6. Discuss the procedure of Impression making for inlays and onlays. 7. List material used for cementation 8. Describe clinical procedure for cementation 9. Discuss the latest innovations including CAD-CAM technology 	Lecture		<p>Class Participation</p> <p>Term and final examination</p>
Veneers	<ol style="list-style-type: none"> 1. Discuss indications and contraindications for veneers 2. Describe the diagnostic procedure involved in treatment planning 3. Explain the importance of quantity and quality of enamel for bonding 4. Describe tooth preparation and impression material used for veneers 5. Describe step by step procedure for veneer placement 	Lecture	Small group discussion	<p>Class Participation</p> <p>Term and final examination</p>
Crowns	<ol style="list-style-type: none"> 1. Describe indications and contraindications of <ul style="list-style-type: none"> i. Porcelain fused to metal crown ii. All metal crown iii. All ceramic crown 2. Discuss factors for shade selection 3. Describe guidelines for shade matching 	Lecture	Practical	<p>Class Participation</p> <p>Term and final examination</p> <p>DOPS</p>



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	<p>4. Describe clinical assessment and steps for tooth preparation for porcelain fused to metal crown, all metal and all ceramic crown</p> <p>5. List material available for these restorations</p> <p>6. Discuss soft tissue management and impression making for crowns</p> <p>7. Discuss indications and contraindications for the use of electrosurgery</p> <p>8. List materials used for cementation</p> <p>9. Describe the clinical procedure for cementation</p> <p>IMPLANTSUPPORTEDRESTORATIONS:</p> <p>1. Discuss indications and contraindications</p> <p>2. Describe various implant supported restorations that can be used for missing teeth</p>			
Fixed partial denture design	<p>1. Discuss design considerations for individual conditions</p> <p>2. Describe material selection</p> <p>3. Explain biomechanical considerations</p> <p>4. Discuss abutment selection</p> <p>5. Discuss special cases</p> <p>6. Explain condition of residual ridge And occlusion with opposing teeth</p>	Lecture		Class Participation Term and final examination
Abutment and retainer selection	<p>1. Explain types of retainers based on tooth coverage</p> <p>i) Full veneer crowns</p> <p>ii) Partial veneer crowns</p> <p>iii) Minimal preparation retainers</p> <p>2. Discuss material being used</p> <p>i) All metal</p> <p>ii) Metal ceramics</p> <p>iii) All ceramic</p> <p>iv) All acrylic</p> <p>3. Discuss criteria for selection of retainers</p> <p>i. Alignment, appearance, condition</p>	Lecture	cbl	Class Participation Term and final examination



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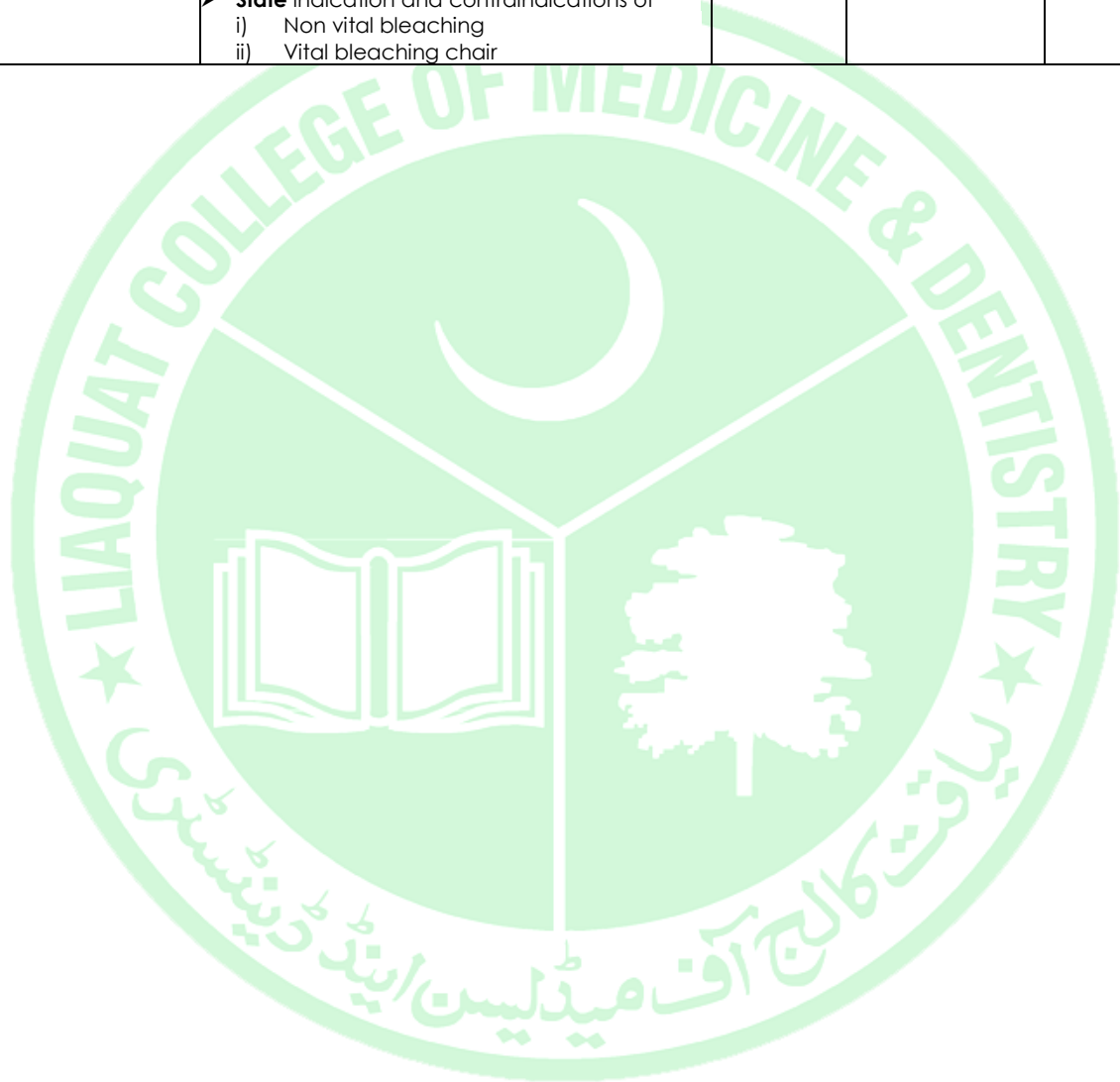
	<ul style="list-style-type: none"> ii. Cost iii. Preservation of tooth structure <p>4. Discuss abutment selection</p> <ul style="list-style-type: none"> i. Location, condition, position of abutment ii. Crown root ratio, root support iii. Pulpal health <p>5. Explain types of abutments</p> <ul style="list-style-type: none"> i) Healthy ii) Cantilever iii) Tilted iv) Damaged Implant iv. abutments 			
Margin placement and pontic design	<p>1. List types of margins:</p> <ul style="list-style-type: none"> i) Shoulder ii) Chamfer iii) Sloped shoulder iv) Shoulder with bevel v) Featheredge vi) Chisel edge vii) Bevel <p>2. Describe Pontic design</p> <p>3. List the factors affecting pontic design</p> <p>4. Discuss available space</p> <p>5. Describe contour of ridge</p> <p>6. Discuss the amount of occlusal load placed on the abutment teeth during mastication.</p> <p>7. Discuss general design considerations</p>	Lecture	Practical	<p>Class Participation</p> <p>Term and final examination</p> <p>DOPS</p>



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COURSE TOPIC: ADVANCED RESTORATIVE DENTISTRY				
Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Advanced Restorative Dentistry	<ul style="list-style-type: none">➤ List the advanced restorative techniques.➤ Define bleaching<ul style="list-style-type: none">i) Non vital bleachingii) Vital bleaching chairiii) Vital bleaching night guard➤ List causes of tooth discoloration.➤ Enumerate types of bleaching.➤ State indication and contraindications of<ul style="list-style-type: none">i) Non vital bleachingii) Vital bleaching chair	Lecture (4)	Tutorial/ patient base learning/CBL	Class Test Class Participation Final Examination





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LEADERSHIP, PROFESSIONALISM & ETHICS (LeaPE)				
Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Leadership in the Healthcare context	<ul style="list-style-type: none"> Define leadership in the healthcare context Identify one's own leadership style and characteristics Discuss characteristics of an effective leader 	Lecture (1)		Knowledge MCQS Knowledge MCQS
Role of doctor in different healthcare settings	<ul style="list-style-type: none"> Discuss the various roles of doctors in healthcare settings (primary, sec and tertiary) Differentiate among the leadership roles a doctor plays as house officer, resident and consultant/ specialist 	Lecture (1) Role play	Knowledge/ Skill/ Attitude	MCQS One on one Feedback





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PATIENT SAFETY AND INFECTION CONTROL				
Topic	Objectives	Mode of Teaching	KSA Competencies	Assessment Tools
		Lecture/ Tutorials	Knowledge/ Skill/ Attitude	
Errors and Risk Management	<ul style="list-style-type: none"> Describe the major types of errors and how these types of errors can negatively impact patient care. Summarize the Joint Commission Patient Safety Goals Discuss the challenges in error accountability and the barriers to error reporting Discuss principles and steps in risk management Discuss the process and importance of patient identification, especially at-risk patients Explain the importance and process of adverse incident reporting (e.g. adverse drug reporting) Identify the differences among active and latent errors, adverse, negative adverse, sentinel, and never events. Summarize the importance of collaboration and communication among inter-professional team members to mitigate preventable errors and improve outcomes for all patients. 	Lecture (3)	Knowledge/Attitude/Skill	MCQS
Procedural safety	<ul style="list-style-type: none"> Discuss the 7 steps to Patient Safety. Explain the protocol of donning and doffing of PPE Explain safety aspects in instrument handling 	Lecture (1)	Knowledge/Attitude/Skill	MCQS



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COMMUNICATION SKILLS				
Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Conflict Management	<ul style="list-style-type: none"> ➤ Define conflict ➤ Identify common sources of conflict in the local workplace ➤ Describe different communication styles in conflicts (angry/competitive, cooperative, compromising, accommodating, avoidance/passive style) ➤ Discuss different strategies and tools for effective conflict resolution 	Lecture (1)	Knowledge/Attitude/Skill	MCQS
Dealing with difficult patients (Geriatric, Paeds, Teenagers, anxious/aggressive, patients with special needs)	<ul style="list-style-type: none"> ➤ List examples of 'difficult patients' & reasons why patients can be 'difficult' ➤ Discuss strategies for dealing with difficult patients ➤ Demonstrate effective communication with patients in extremes of ages 	Lecture (1) Role play(1)	Knowledge/Attitude/Skill	MCQS

