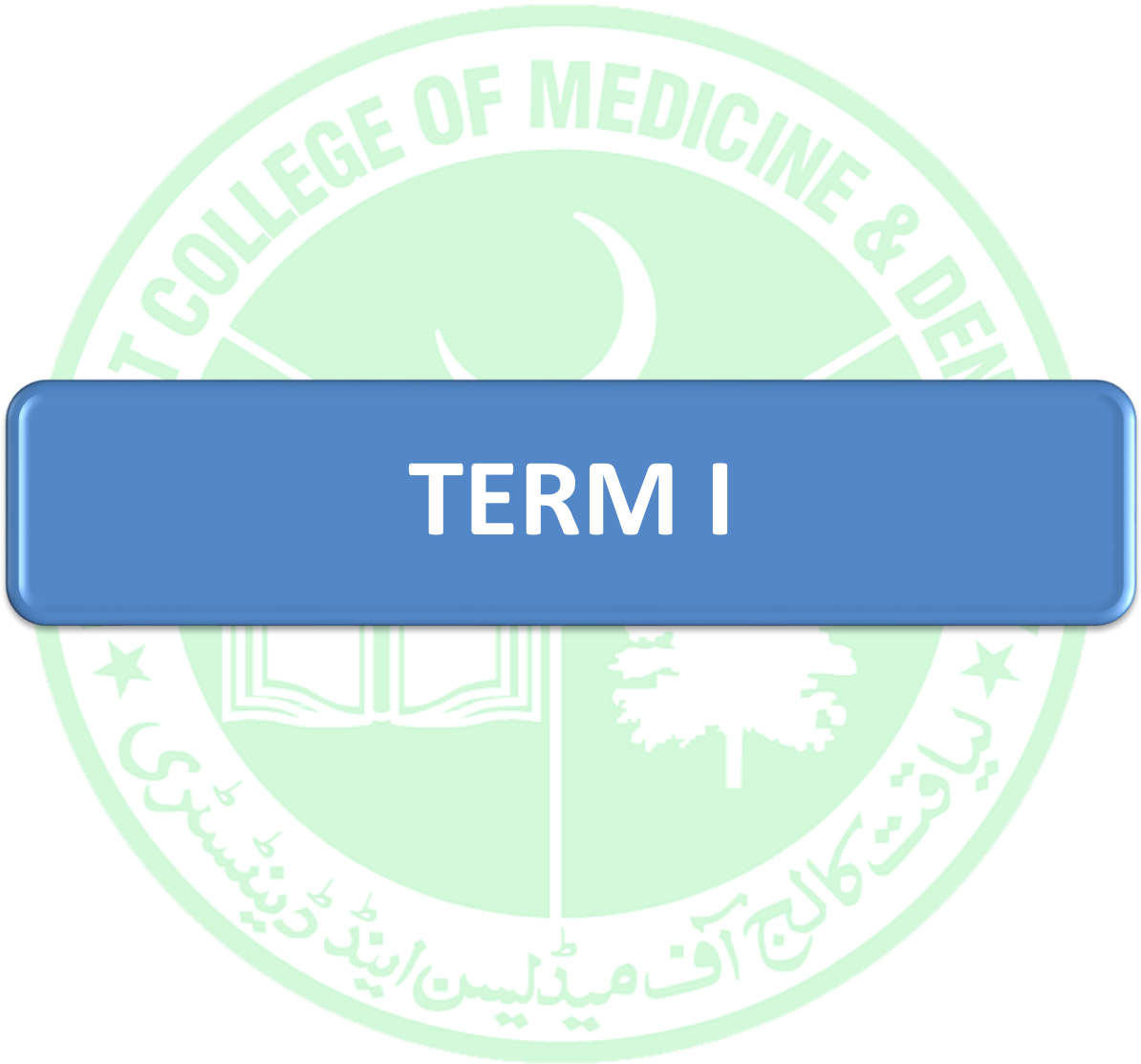




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COMMUNITY DENTISTRY				
Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
		Lecture/ Tutorials		
The professions of dentistry & dental hygiene	Define: 1. Profession 2. Professionalism	Lecture (1)	K	Google assignment
	Define all 3 Models of professionalism in dentistry		K	
	List the organizations of the dental profession.		K	
The public served by dentistry	Discuss the use of primary and preventive dental services in terms of public health needs and demands.	Lecture (1)	K, A	Interactive group session/TBL
	Discuss the demographic factors associated with the utilization of dental services in primary and tertiary oral health demands in the community.		K,A	
Ethics & responsibility in dental care	Define : 3. Ethics 4. Professional ethics 5. Self-regulation	Lecture (2) Tutorial	K,A	INTERACTIVE SESSION/PBL/ flip classroom
	Describe the framework for ethical standards.		K,A	
	Compare the significance of Individual ethical responsibilities with social responsibilities		K,S,A	
	List the ethical principles applied in research protocols involving human subjects.		K,A	
	Discuss the declaration of GENEVA by the WMA		K,A	
Oral health promotion	Define: 1. Health promotion Dental health education	Lecture ,flipped classroom (3)	K K K	Google Assignment OSPE/BCQS
	Discuss the Ottawa charter for health promotion		K	



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	Discuss the global Goals for oral health by WHO		K	
	List the principles of oral health education		K	
WHO Oral Health Assessment	Explain the concept and purpose of the WHO oral health screening in community dentistry	Lecture	K ,A	Interactive session /PBL/Bcqs
	Use the WHO oral health Assessment form correctly for a population-based survey	(2)	K ,A	
	Explain the importance of standard WHO codes and clear data recording	Tutorial	K	
	Perform a systematic extra-oral and intra-oral examination as recommended by WHO		K, A	
Tooth numbering system	Describe the commonly used tooth numbering systems: FDI (Two-digit) system Palmer notation system	Lecture	K, A	Interactive session /PBL/Bcqs
	Correctly assign tooth numbers to individual teeth in maxillary and mandibular arches	(2)	K, A	
	Apply tooth numbering systems accurately in clinical case documentation and communication.	Tutorial	K	
	Demonstrate competency in converting tooth numbers from one system to another.		K, A	
Dental caries	Define: 1. Dental caries 2. Root caries 3. Early childhood caries	Lecture (2) PBL	K	CBL/ interactive session/ group
	Discuss the Global distribution of dental		K	



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	caries	Tutorial		discussion
	Discuss the demographic risk factor of dental caries		K	
	Differentiate between the Risk factor and risk indicator of dental caries		K	
	Discuss the following theories on dental caries: <ul style="list-style-type: none"> • Early theories on diet and caries • Epidemiological studies on diet and caries 		K	
	Describe the relation between diet restriction and caries control		K	
Periodontal disease	Define periodontal disease	Lecture (2) Tutorial PBL	K	OSPE Class Presentation CBL
	Classify the Severity Of Periodontal Diseases		K,A	
	Classify all the major types of periodontal disease according to the American Academy Of Periodontology		K	
	Discuss the Demographic risk factors of periodontitis		K,A K	
	Discuss the local Risk factors of periodontitis		K	
	Describe the relationship between Periodontitis and systemic conditions		K	
Prevention of Periodontal Diseases	Discuss rationale for controlling periodontal condition by regular plaque removal	Lecture (1) Tutorial Demonstration and performance on models	K	Assignment BCQ OSPE Class Quiz
	Demonstrate various tooth brushing techniques on a model or patient.		K	
	List 3 essential Approaches to plaque control		K	
	Discuss all the methods of Mechanical plaque removal by individual and dental professionals		K K	
	Discuss all the methods of chemical plaque removal		K	
Explain the advantages and limitations of each brushing technique	K			



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DENTAL MATERIALS				
Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
		Lecture/Tutorials		
INTRODUCTION TO DENTAL MATERIALS				
Introduction to Selection of Dental Materials	Describe the process of selection of Dental Materials on the basis of: 1) Requirement of Dental Materials 2) Availability of Materials 3) Choice of Materials.	Lecture (1)	K	Assignment Class participation
	List the standard specification tests		K/S	
Evaluation of Materials	Describe the Laboratory evaluations of dental Materials		S	
	List the Clinical trials of Dental Materials.		S	

Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
PROPERTIES USE TO CHARACTERIZED MATERIALS				
Mechanical Properties	Define the terms : Stress, Strain, Stress-Strain relationship, proportional limit, ductility, malleability, Resilience, Toughness, Fracture toughness & Impact strength, Creep & Flow, Hardness along with examples	Lecture (2)	K	Class test Socratic-based formative assessments for real-time feedback, concept checking, and exam-oriented MCQs.
	Describe the Fatigue properties, Abrasion resistance.		K	
	List the Types of Hardness evaluation tests.		S	
Rheological Properties	Define the term Rheology, Viscosity, and Shear Stress, Shear rate.	Lecture (1)	K	Class test Group assignment Class Participation Group Presentations
	Characterize the type of Fluids on the basis of Viscosity, with examples.		K	
Thermal Properties	Define the Thermal conductivity & Thermal diffusivity, Coefficient of Thermal Expansion.	Lecture (1)	K	Class test Group assignment Class Participation Group
	Explain the significance of Adhesion		K	
	Explain the significance of wetting & contact angle.		K	
	Give the major differences between Adhesives, Adherent, List the different types of bonding of Dental Materials.		K	



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				Presentations
Miscellaneous Physical Properties	Define the terms Dimensional changes, appearance, hue, Chroma, brightness.	Lecture (1)	K	Class test
	Describe the Significance of Dimensional Stability of Dental Materials		K	Group assignment Class Participation Group Presentations
Chemical Properties	Define the terms Solubility, Erosion, Corrosion & Tarnish	Lecture (1)	K	Class test
	Describe the reasons for corrosion.		K	Group assignment
	Describe the Testing of Corrosion & Tarnish		S	Class Participation Group Presentations
Biological Properties	List the requirements of biological properties	Lecture (1)	K	Class test Group assignment
	List the significance of Biological Properties.		K	Class Participation Group Presentations



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Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/ Skill/ Attitude	Assessment Tools
GYPSUM				
Introduction Requirements of Dental cast Materials Composition	Describe the Chemical reactions of Gypsum	Lecture (1)	K	Class test Group assignment Class Participation Group Presentations
	List the main requirements of Model & Die materials		K	
	List the Ideal properties of Model and Die materials.		K	
	List the components of Gypsum.		K	
	Give the major differences between Dental plaster & Dental Stone		K	
Manipulation & Setting Characteristics	List the methods of Manipulation of Gypsum	Lecture (1)	K	TA-Based Group Activities (Teacher Assistant-facilitated); small-group activities
	Give the Ideal W/P ratios of mixing Gypsum		K	
	Name the Tests for evaluation of setting characteristics of Gypsum		K	
	Describe the Significance of Hygroscopic Expansion		K	
	Explain the different ways to Control Setting time of Gypsum.		K	
Properties of the Set Material Application	Describe the Ideal Properties of Gypsum	Lecture (1)	K	Class test Group assignment Class Participation Group Presentations
	List the Uses of Gypsum		K/S	
	Name the types of Gypsum		K	
Advantages & Disadvantages	List the Advantages of uses of Gypsum for various purposes	Lecture (1)	K	Class test Group assignment Class Participation Group Presentations
	List the Disadvantages of use of Gypsum with various other Dental Materials.		K	
Practical	1. Construct Plaster slab of Gypsum (3/2 inches)	Practical (1)	S	
	2. Design Alphabet " A" wire bending	Practical (1)	S	
	3. Prepare OSPE Spots	Practical (1)	S	



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Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
WAXES				
Introduction to Waxes	Describe the Origin of Waxes	Lecture (1)	K	Class test Group assignment Class Participation Group Presentations
	Explain the Patterning of Waxes using		K	
	Direct & Indirect wax pattern techniques.		K	
	List the Waxes used in dentistry		K	
	Describe the uses of different types of waxes		K	
Requirements of Wax pattern materials	List the Requirements for construction of wax patterns.	K	K	
	Discuss the properties for wax pattern construction.	K	K	
Composition of Waxes	Discuss the composition of Waxes based on its origin – (Mineral, Animal, Vegetables)	K	K	
Properties of Dental Waxes	Discuss the thermal & Mechanical properties of Waxes.	K	K	
	List the different methods for softening of Waxes.	K	K	
Applications of Waxes	Discuss the composition of waxes classify waxes on the basis of uses and origin	Lecture (1)	K	Flipped Classroom (pre-reading/video with in-class problem solving)
	Explain Mode of manipulation of different types of waxes (pattern, processing, impression)		K	



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Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/ Skill/ Attitude	Assessment Tools
INVESTMENT				
Introduction to Investment & Refractory Dies.	Discuss the composition of Investment material and Refractory Die	Lecture (1)	K	Class test Group assignment Class Participation Group Presentations
Requirements of Investments for alloy casting	List the ideal requirements of investment for alloy casting	Lecture (1)	K	
Investment Materials	Discuss the composition of Gypsum, phosphate and silica bounded investment materials	Lecture (1)	K	
Properties of Investment Materials	Discuss the Thermal and physical properties of different investment materials.	Lecture (1)		
Application of Investment Materials	Discuss the uses of Gypsum, silica and phosphate bounded investment materials and their method of application.	Lecture (1)	K	
Investment mould	Describe the mechanism for fabrication of investment mould with diagram	Lecture (1)	K	

Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/ Skill/ Attitude	Assessment Tools
ARTIFICIAL TEETH				
Introduction	Define artificial teeth	Lecture (1) Tutorial		Socratic-based formative assessments for real-time feedback, concept checking, and exam-oriented MCQs.
	Enumerate the difference between the acrylic and porcelain teeth		K	
Composition	List the composition of acrylic teeth		K	
	Composition of porcelain teeth		K	
Properties	Discuss the properties of artificial teeth		K	
Requirement	Describe the ideal requirement of artificial teeth			



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Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/ Skill/ Attitude	Assessment Tools
REQUIREMENT OF DIRECT FILLING MATERIALS				
Introduction	Define the restorative material	Lecture (1)	K	Class test TA-Based Group Activities (Teacher Assistant-facilitated): small-group activities Presentations
	Classify direct filling materials on the basis of tooth color.			
	List the factors used to assess the success and failure of restorative materials	Practical	K	
Appearance	Describe the tooth colored materials and their link to appearance of teeth.	Lecture (1) Practical/ Tutorial	K	
Rheological properties and setting characteristics	Describe the rheological properties and setting characteristics of restorative materials.	Lecture (1) Tutorial	K	
	List the different forms in which restorative materials are supplied.			
Chemical Properties	Discuss the chemical, thermal properties related to filling materials	Lecture (1) Practical/ Tutorial	K	
Thermal Properties		Lecture (1) Practical/ Tutorial	K	
Mechanical Properties	Discuss the Mechanical properties related to filling materials.	Lecture (1) Practical/ Tutorial	K	
Adhesion	Discuss the bonding (adhesion) between tooth structure and restorative material	Lecture (1) Practical/ Tutorial	K	
Biological Properties	Discuss the biological properties related to filling materials	Lecture (1) Practical/ Tutorial	K	
History	Describe the history of direct restoration.	Lecture (1) Practical/ Tutorial	K	
	Discuss the properties of historical restorative material		K	
	List the advantages and disadvantages of restorative materials		K	
	Describe the types of restorative materials (tooth colored and non-tooth colored)		K	



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Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
		Lecture/ Tutorials		
AMALGAM				
Introduction	Define the term Amalgam	Lecture (1)	K	Team-Based Learning (TBL)
	Describe the setting reaction for the formation of Dental Amalgam	Practical	K	
Composition	Differentiate the components of dental amalgam as per ISO classification	Lecture (1) Practical/ Tutorial	K	Socratic-based formative assessments for real-time feedback, concept checking, and exam-oriented MCQs.
	Explain the role of each component of Dental Amalgam, Explain the various phases during amalgamation.		K	
	Classify the dental amalgam on the basis of 1. Copper Content 2. Zinc Content 3. Size Of Alloy 4. Shape Of Alloy		K	
	Describe the methods for production of alloy particles (Atomization, Lathe cut)		K	
Setting Reaction	Discuss the phases occurring during setting reaction of amalgam	Lecture (1) Tutorial	K	
Properties	Discuss the physical, chemical, mechanical, thermal, biological properties of amalgam.	Lecture (1) Practical/ Tutorial	K	
Clinical handling of dental amalgam	Discuss the basic principles of cavity designing for amalgam	Lecture (1) Practical/ Tutorial	K	
	List the different types of matrices		K	
	Describe the procedures for placing the matrix band		S	



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Manipulative variables	Discuss the sequences of events for amalgam manipulation: 1. Proportioning and dispensing 2. Trituration 3. Condensation 4. Carving 5. Polishing and finishing	Lecture (1) Practical/ Tutorial	S	
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PHARMACOLOGY				
Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
		Lecture/ Tutorial		
GENERAL PHARMACOLOGY				
Introduction to Pharmacology	Define Pharmacology and describe its importance in dental practice	Lecture (1) Practical/ Tutorial	K/A	Formative Assessment (BCQ OSPE Group Presentation Class Participation Assignment)
	Describe the branches of pharmacology			
Pharmacokinetics	Classify various routes of drug administration	Lecture (1) Practical/ Tutorial	K/A	
	Explain advantages and disadvantages of different routes of drug administration			
	Discuss the sequence of drug absorption and biochemical changes which occur in the cell	Lecture (1) Practical/ Tutorial	K/A	
	Explain Ionization of weak acids and bases and HandersonHasselbalch equation			
	List at least four Ionized and Nonionized drugs			
	Distinguish between water and lipid soluble drugs along with examples	Lecture (1) Practical/ Tutorial	K/A	
	Discuss permeation of drug in the body			
	Describe the factors for modification of drug absorption	Lecture (1) Practical/ Tutorial	K/A	
	Discuss drug distribution, Volume of distribution (Vd) and plasma protein binding.			
	Define Bioavailability	Lecture (1) Practical/ Tutorial	K/A	
	Describe the factors affecting bioavailability of drug.			
	Define Biotransformation	Lecture (1) Practical/ Tutorial	K/A	
	Describe the sites and factors affecting biotransformation of drug.			
	Discuss the phases of metabolic reactions/ biotransformation with examples			
	Name the organs of drug elimination	Lecture (1) Practical/ Tutorial	K/A	
	Explain first-order elimination and zero-order elimination along with examples			
Discuss drug interactions and its clinical effects.	Lecture (1) Practical/ Tutorial	K/A		
Define first pass effect and enterohepatic circulation				
Explain half life of drug and the factors affecting half life	Lecture (1) Practical/ Tutorial	K/A		
Describe enzyme induction and enzyme inhibition				
Discuss steady state concentration.				
				BCQ OSPE Group Presentation Class Participation Assignment



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	Define dose	Lecture (1) Practical/ Tutorial	K/A	
	Discuss different types of dosage according to severity of disease.			
	Define therapeutic index			
	Describe ratio of lethal dose and effective dose			
	Apply pharmacokinetic principles for safe and rational drug prescribing in dental practice		Knowledge, Skill	(formative Case scenario)
Pharmacodynamics	Corelate the mechanism of action of drugs and receptors Describe different types of receptors according to transmembrane signaling mechanisms along with examples.	Lecture (1) Practical/ Tutorial	K/A	
	Classify different type antagonists according to drug receptor interactions along with examples.			
	Discuss Dose response relationships(quantal and graded dose)	Lecture (1) Practical/ Tutorial	K/A	
	Define agonist , partial agonist and antagonist			
	Discuss efficacy and potency of drug			
	Define Tachyphylaxis and tolerance with examples.			
	Discuss Drug allergy/hypersensitivity& Idiosyncrasy with examples	Lecture (1) Practical/ Tutorial	K/A	
Define side effects and toxic effects				
Adverse Drug Reaction	Categorize various form/classes of adverse effects of drugs with examples	Practical/ Tutorial	K/A	BCQ OSPE Group Presentation Class Participation Assignment
	Describe Teratogenesis			
Dosage forms	Discuss different types of dosage forms along with examples	Practical/ Tutorial	K/A	



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Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/ Skill/ Attitude	Assessment Tools
		Lecture/ Tutorials		
ANS				
Introduction To Autonomic Nervous System	Describe the actions of the parasympathetic and sympathetic nervous system on effector organ	Lecture (1) Practical/ Tutorial	K/A	BCQ OSPE Group Presentation Class Participation Assignment
	List the different types of neuro transmitters			
	Classify different types of receptors according to neurotransmitters action in parasympathetic and sympathetic nervous system.			
	List different types of cholinergic receptors, its location & effects on body			
	Classify Parasympathomimetics / Cholinergic agonists according to direct and indirect acting drugs.			
	List different types of adrenergic receptors, its location & effects on body			
Parasympathomimetics /Cholinergic agonist	Describe pharmacokinetics, mode of action, therapeutic uses/indications, adverse effects and contraindication of all Parasympathomimetics/ Cholinergic agonists.	Lecture (1) Practical/ Tutorial	K/A	BCQ OSPE Group Presentation Case-based discussion Class Participation Assignment
	Explain organophosphate compound poisoning and its treatment	Lecture (1) Practical/ Tutorial	K/A	
	Define myasthenia gravis			
	Enumerate the drugs used for diagnosis and treatment of myasthenia gravis	Lecture (1) Practical/ Tutorial	K/A	
	Define glaucoma			
	List the drugs used in treatment of glaucoma			
Parasympatholytics /Cholinergic antagonist	Classify Parasympatholytic/Cholinergic antagonists according to receptor blocking drugs.	Lecture (1) Practical/ Tutorial	K/A	
	Describe pharmacokinetics, mode of action, therapeutic uses/indications, adverse effects and contraindication of all parasympatholytic/cholinergic antagonist			



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	(Muscuranic & Nicotinic antagonist)			
Sympathomimetics /Adrenergic agonists	Classify sympathomimetics/adrenergic agonists according to chemical nature, receptor sensitivity and mode of action(direct/ indirect acting)	Lecture (1) Practical/ Tutorial(sm all group discussion)	K/A	
	Describe the pharmacokinetics, mode of action , therapeutic uses/indications, adverse effects and contraindication of all sympathomimetics/adrenergic agonists	Lecture (1) Practical/ Tutorial	K/A	
	Exhibit caution and patient-safety awareness when using adrenergic drugs in cardiovascular conditions			
Sympatholytics /Adrenergic antagonists	Classify sympatholytics/adrenergic antagonists according to according to receptor blocking drugs.	Lecture (1) Practical/ Tutorial(sm all group discussion)	K/A	
	Describe pharmacokinetics, mode of action, therapeutic uses/indications, adverse effects and contraindication of all sympatholytics/adrenergic antagonists.			
Weight and Measures	Define weight and measures	Practical/ Tutorial	K/A	
	Discuss imperial and metric system			
	List conversions of different value			
AUTOCOIDS AND ANTI INFLAMMATORY				
Autacoids	Define the Autacoids	Flipped class room (1) Practical/ Tutorial	K/A	
	Explain the role of Histamine in the body			
	Classify Antihistamines according to mode of action			
	Describe the pharmacokinetics and pharmacodynamics of Antihistamines			
Serotonin	Classify Serotonin receptor agonists and antagonists according to receptor activating/blocking drugs.	Lecture (1) Practical/ Tutorial	K/A	
	Describe the actions of Serotonin on the organ systems of the body			
	Describe the effects and clinical uses of Serotonin agonists			
	Describe the mechanism, effects, clinical uses and toxicity of Serotonin antagonists			
Eicosanoids	Define Eicosanoids	Lecture		

OSPE
BCQ



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	Differentiate between Prostaglandins and Leukotrienes	(1) Practical/ Tutorial		
	Classify Eicosanoids agonists and antagonists on the basis of mode of action			
	Describe the mechanism of action of Prostaglandins, Leukotrienes and Thromboxanes			
	Describe the pharmacological effects of common Prostaglandins			
Introduction to solutions	Discuss different types of solution according to number of solutes	Practical/ Tutorial	K/A	
Normal saline solution	To dispense 50ml of 5% of glucose in normal saline solution			
NSAIDs	Classify NSAIDs according to chemical nature	Flipped Class room/(1) Practical/ Tutorial(sm all group discussion)	K/A	BCQ OSPE Group Presentation Class Participation
	Describe the pharmacokinetics and pharmacodynamics of Aspirin			
	Enumerate therapeutic uses/indications, adverse effects and contraindication of aspirin			
	Describe the treatment of Aspirin poisoning			
	Summarize the pharmacokinetics, pharmacodynamics of commonly used NSAIDs			
	Enumerate therapeutic uses/indications, adverse effects and contraindication of commonly used NSAIDs			
	Describe rational prescribing and patient-safety awareness while using NSAIDs (GI, renal, CV risks)			
DMARDs	Describe the drugs used as anti-arthritis	Lecture (1) Practical/ Tutorial	K/A	
	Classify DMARDs according to mode of action			
	Summarize the pharmacokinetics and pharmacodynamics, indications and side effects of DMARDs			
Anti-gout Drugs	Classify Anti gout drugs according to mode of action	Lecture (1) Practical/ Tutorial	K/A	
	Summarize the pharmacokinetics, pharmacodynamics, indications and side effects of Anti-gout drugs			



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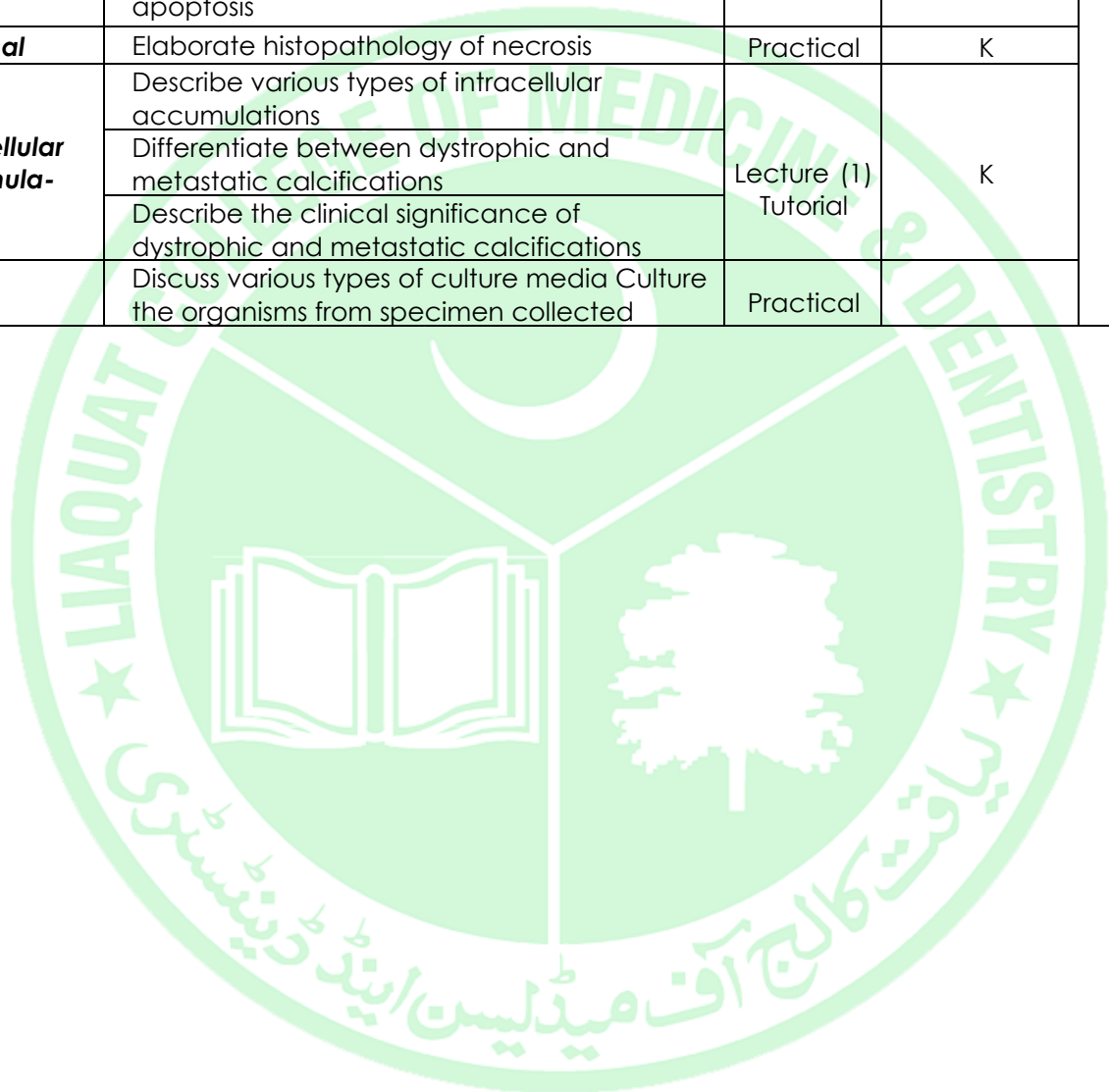
PATHOLOGY				
Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
		Lecture/Tutorials		
CELL INJURY				
Introduction to Pathology Overview: Cellular responses to Stress and Noxious Stimuli	Define Pathology and Pathogenesis. Discuss cellular responses to the injury and stages of the cellular response to stress and injurious stimuli. Briefly discuss cellular responses to the injury and stages of the cellular response to stress and injurious stimuli.	Lecture (1)	K	BCQOSPE Group Presentation on Class Participation Assignment
Cellular adaptations	Describe cellular Adaptations Discuss Hyperplasia, Metaplasia, Dysplasia, Atrophy and Hypertrophy with examples	Lecture (1) Tutorial	K	
Practical	Discuss the histopathology of Adaptation	Practical	K	
Cell Injury and Cell Death	Define cell injury List causes of cell injury Differentiate between irreversible and reversible injuries. Describe the sequence the ultra-structural and biochemical changes which occur in the cell in response to cell injury	Lecture (1) Tutorial	K	
Practical	Discuss the histopathology of fatty change	Practical	K	
Mechanism of Cell Injury I & II	Describe Mechanisms of Cell Injury including Depletion of ATP, Mitochondrial damage, Influx of Calcium, Accumulation of Oxygen derived free radicals, Defects in membrane permeability, Damage to DNA and Proteins Discuss properties of the Principal Free Radicals Involved in Cell Injury.	Lecture (2)	K	
Necrosis & Apoptosis	Define necrosis Differentiate between/among: <ul style="list-style-type: none"> • various types of necrosis • apoptosis and necrosis 	Lecture (3) Tutorial	K	



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Necrosis & Apoptosis	Discuss morphologically distinct patterns of necrosis including coagulative necrosis, liquefactive necrosis, gangrenous necrosis, caseous necrosis, Fat necrosis, and fibrinoid necrosis with examples Discuss causes, morphological and biochemical changes, clinic-pathologic correlations in Apoptosis Summarize the pathways of apoptosis. Discuss the pathogenesis and significance of apoptosis			
Practical	Elaborate histopathology of necrosis	Practical	K	
Intracellular accumulation	Describe various types of intracellular accumulations	Lecture (1) Tutorial	K	
	Differentiate between dystrophic and metastatic calcifications			
	Describe the clinical significance of dystrophic and metastatic calcifications			
	Discuss various types of culture media Culture the organisms from specimen collected	Practical		





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Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
		Lecture/Tutorials		
INFLAMMATION, HEALING AND REPAIR				
Inflammation Introduction	Define Inflammation List the causes of inflammation Describe the role of inflammation in the defense mechanisms of the body	Lecture (1)	K	BCQOSPE Group Presentation on Class Participation Assignment
	Differentiate between acute and chronic inflammation			
Acute inflammation	Describe the vascular changes of acute inflammation. Relate morphological and tissue effects to the vascular changes of acute	Lecture (2)	K	
	-Describe the cellular events of inflammation, particularly process of chemotaxis, opsonization and phagocytosis. - Explain different morphological pattern of acute inflammation			
	Discuss the histopathology of acute inflammation	Practical	K	
Chemical mediators of inflammation	List the important chemical mediators of inflammation	Lecture (3) Tutorial	K	
	Describe the path way particularly the complement & coagulation pathways. Elaborate Arachidonic acid metabolism.		K	
	Discuss the role of products of Arachidonic acid metabolism in inflammation.		K	
	Describe the mechanism for development of fever, with reference to exogenous and endogenous pyrogens.		K	
Chronic Inflammation	-Describe chronic inflammation including granuloma. -List the causes and morphological	Lecture (2) Tutorial	K	



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Practical's	Discuss the histopathology of Chronic Inflammation	Practical	K	
Practical's	Discuss the histopathology of granulomatous inflammation	Practical	K	
Healing & Repair	Define repair and regeneration	Lecture (2) Tutorial	K	
	Describe wound healing by first and second intention Describe the formation of granulation tissue -Contrast repair by primary and secondary intention		K	
Practical	Discuss the histopathology of granulation tissue	Practical	K	
Complications of wound healing	Describe the complications of wound healing.	Lecture (1) Tutorial	K	



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Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
		Lecture/Tutorials		
GENERAL MICROBIOLOGY				
Introduction to microbiology	Classify micro-organism on the basis of their characteristics? with examples	Lecture (1) Tutorial	K	BCQOSPE Group Presentation Class Participation Assignment
	Differentiate between Eukaryotes & prokaryotes with examples			
Morphology of bacteria	Classify the Bacteria according to their shapes, staining, motility and accessory, Normal Human Microbiome	Practical	K,S	
	Identify the parts of light (compound) Microscope			
	Explain the uses of different parts of Microscope			
	Distinguish between light and electron microscope	Lecture (1) Practical/Tutorial	K,S	
	Define staining with its types			
	Demonstrate the procedure of simple Staining	Practical	K,S	
	List the Indication and give significance of staining procedure			
	Describe the steps of Gram staining procedure	Practical	K,S	
	Demonstrate the Gram staining procedure			
	Interpret the result on the basis of: Shape, Color and Arrangement			
Define ziehl neelsen(acid fast) staining	Practical	K,S		
	State the Indication of ziehl neelsen(acid fast) staining neelsen(AFB)staining	Practical/Tutorial		
	Describe the steps of ziehl neelsen staining method			
	Demonstrate the steps of ziehl neelsen staining procedure			
	Interpret the result			
Anatomy of bacterial cell wall	Explain the structure of bacteria	Lecture (1)	K	
	List the Essential & non-essential structures of bacterial cell and define their functions	Lecture (1) Tutorial	K	
	Explain bacterial cell wall along with their function			
	Describe the capsule and glycol calyx			
	Define Plasmids and its type			
	Explain Plasmid functions			



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	Discuss the Transposons			
	Describe the bacterial Spore and its importance			
	Differentiate between gram positive & gram negative cell wall			
Physiology of bacteria	Define Aerobes, Anaerobes, facultative an aerobes carboxyphilic organisms	Lecture (1) Tutorial	K	
	List the examples of aerobes, anaerobes, micro aerophilic, and Facultative anaerobes		K	
	Discuss Nutritional requirements of bacteria.		K	
	Explain Growth curve of bacteria.		K	
Classification	Classify medically important Bacteria	Lecture	K	
Laboratory diagnosis	Describe specimen collection & transport	Lecture/ Tutorial)	K	
	(throat, swabs, blood culture)	(1)		
	Define culture media	Practical / Tutorial	K	BCQOSPE Group Presentation Class Participation Assignment
	Classify the culture media on the basis of: Consistency Ingredients		K	
	Discuss the bacteriologic methods		K	
	Describe the immunologic methods			
	Explain the nucleic acid- based methods			
	Demonstrate the Wet mount			
	Interpret Culture & sensitivity testing			
	Demonstrate different culture media with their use			
	Explain the SDA MEDIA and its uses		K	
	Brief description of commonly used bacteriologic agar and their function			
Host defense	Discuss the principles of host defense, innate immunity (skin and mucous membrane)	Lecture	K	
Bacterial Vaccines	Explain the principles of bacterial vaccines Discuss bacterial vaccines use for active and passive immunity	Lecture	K	
Sterilization and disinfection	Define sterilization, disinfection ,antiseptic Classify Various physical & chemical methods of sterilization with examples Distinguish b/w disinfections and Sterilization			



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JUNIOR OPERATIVE DENTISTRY				
Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
		Lecture/ Tutorials		
Introduction	By the end of Junior Operative lecture, students should be able to: 1. Define Operative Dentistry 2. Explain the significance of Operative Dentistry	Lecture (1)	Knowledge	Class participation
Review of Dental Anatomy/ Biologic Considerations in Operative Dentistry	By the end of Junior Operative lecture, students should be able to: 1. Discuss chemical composition, structure and properties of enamel, dentin, pulp, cementum and gingiva. 2. Discuss morphologic and histologic structure of tooth tissues with their clinical impact on restorations. 3. Discuss the importance of dento-gingival complex and biologic width when planning restorations.	Lecture (1)	Knowledge	Class participation
Tooth Notation System	By the end of Junior Operative lecture, students should be able to: 1. Name and number teeth according to various notation systems	Lecture (1)	Knowledge	Class participation
	By the end of Junior Operative tutorial, students should be able to: 1. Identify the tooth and tooth number according to various notation systems	Tutorial (1)	Knowledge	Tutorial Test
Patient Protocol/ Patient and Operator Positioning	By the end of Junior Operative lecture session, students should be able to: 1. Explain the significance of correct patient and operator position 2. Describe correct patient operator positions when carrying out restorative procedures on patients	Lecture (1)	Knowledge	Class participation
	By the end of Junior Operative practical session, students should be able to: 1. Perform receiving and seating of patient on simulated patient 2. Demonstrate taking of consent from patient. 3. Demonstrate the correct patient and operator positions when carrying out restorative procedure on phantom head/ typodont in different quadrants/teeth	Tutorial/ Practical Demonstration (1)	Knowledge/ Skill	MiniCEX DOPS
Caries, Classification, Diagnosis	By the end of Junior Operative lecture, students should be able to:	Lecture (4)	Knowledge	Class participation



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<p>and Prevention</p>	<ol style="list-style-type: none"> 1. Define dental caries, etiology and its modifying factors. 2. Classify different types of caries based on location, spread, extent, rate etc., according to G.V. Black and G.J. Mount. 3. Explain the factors responsible for caries development. 4. Discuss various methods of detection and diagnosis of dental caries 5. Identify clinical features of different types of caries on clinical pictures 6. Describe the various methods of caries control. 			Class Test
	<p>By the end of Junior Operative tutorial session students should be able to:</p> <ol style="list-style-type: none"> 1. Identify carious lesions on tooth model based on site, size, extent etc. 	Tutorial (1)	Knowledge	Tutorial Test
<p>Operative Instruments</p>	<p>By the end of Junior Operative lecture, students should be able to:</p> <ol style="list-style-type: none"> 1. Describe the terminologies used to describe hand instruments. 2. Identify instruments used in Operative Dentistry 3. Classify the instruments on the basis of cutting, non-cutting, use, handheld and rotary etc. 4. Describe the hand instrument formula 5. List various methods of instrument grasping 6. Describe the different parts of dental bur. 7. Classify the different types of dental burs based on their head shape, material and shank design. 8. List the precautions to be undertaken while using rotary instruments. 	Lecture (2)	Knowledge	Class participation Class Test
	<p>By the end of Junior Operative practical session, students should be able to:</p> <ol style="list-style-type: none"> 1. Identify different types of dental burs based on their shape. 2. Identify the parts of high speed and slow speed hand pieces. 3. List the precautions to be undertaken while using rotary instruments 4. Demonstrate accurate technique of grasping hand instruments. 5. Demonstrate correct handling of high speed and slow speed hand pieces on phantom teeth. 6. Demonstrate sharpening of hand instruments 	Tutorial/ Practical Demonstration (1)	Knowledge/ Skill	MiniCEX DOPS



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Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
		Lecture/Tutorials		
Dental Unit	By the end of Junior Operative practical session, students should be able to: <ol style="list-style-type: none"> 1. Identify all parts of a dental unit 2. Describe the use of different parts of the dental unit 3. Demonstrate correct operation of different parts of dental unit 4. Perform accurate placement of different attachments (high speed, slow speed hand pieces) to the dental unit 	Tutorial/ Practical Demonstration (1)	Knowledge/ Skill	MiniCEX DOPS
Principles of Cavity design	By the end of Junior Operative lecture, students should be able to: <ol style="list-style-type: none"> 1. State the objectives of tooth preparation 2. Enumerate various tooth preparation terminologies e.g. tooth surfaces, line angles, point angles, outline form, retention form, resistance form and convenience form. 3. Explain basic principles of tooth preparation. 4. Differentiate between tooth preparation features of amalgam and composite restoration. 5. Classify various tooth preparations such as class I, II, III & IV. 6. Describe initial and final stages of tooth preparations. 	Lecture (1)	Knowledge	Flipped Classroom
	By the end of Junior Operative practical session, students should be able to: <ol style="list-style-type: none"> 1. Identify various surfaces in a prepared cavity. 2. Identify various features in a prepared cavity indicating principles of tooth preparation. 	Tutorial (1)	Knowledge	Tutorial Test
Class I Cavity Preparation	By the end of Junior Operative lecture, students should be able to: <ol style="list-style-type: none"> 1. Explain features of class I cavity design for amalgam restoration. 2. Explain the steps of cavity preparation for class I amalgam restoration. 3. Explain feature of class I cavity design for composite restoration. 4. Explain the steps of cavity preparation for class I composite restoration 	Lecture (2)	Knowledge	Class participation Socratic
	By the end of Junior Operative practical,	Tutorial	Knowledge/	Mini CEX/



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	<p>students should be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate principles of tooth preparation while preparing cavity for class I amalgam and composite restoration on maxillary and mandibular phantom/extracted teeth 	Practical Demonstration (2)	Skill	OSAT DOPS
Isolation	<p>By the end of Junior Operative lecture, students should be able to:</p> <ol style="list-style-type: none"> 1. Define isolation 2. State advantages of isolation in Operative Dentistry. 3. Enumerate different methods of moisture control in dentistry 4. List advantages and disadvantages of rubber dam application 5. List rubber dam armamentarium 	Lecture (2)	Knowledge	Class participation Class Test
	<p>By the end of Junior Operative practical session, students should be able to:</p> <ol style="list-style-type: none"> 1. Identify various components of rubber dam armamentarium 2. Select rubber dam clamp for a specific tooth. 3. Perform rubber dam isolation on phantom head/typodont for both anterior and posterior teeth demonstrating all steps accurately using different techniques (dam over clamp, clamp over dam, dam and clamp simultaneously) 	Tutorial/ Practical Demonstration (1)	Knowledge/ Skill	Mini CEX/ OSAT DOPS
Linings and Bases	<p>By the end of Junior Operative Tutorial session, students should be able to:</p> <ol style="list-style-type: none"> 1. Describe the materials that can be used as liner and bases for different clinical scenarios where liners and bases are required in a cavity. 2. Demonstrate correct technique for placement of different liners (Calcium Hydroxide, Glass Ionomer Cement) and bases in cavities prepared on phantom/ extracted teeth 	Tutorial/ Practical Demonstration (1)	Knowledge/ Skill	Mini CEX DOPS
	CLASS TEST / PRESENTATION / REVISION	Lecture (1)		



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JUNIOR PROSTHODONTICS				
Topic	Learning Objectives	Mode of Teaching	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
		Lecture/Tutorials		
Introduction to Prosthodontics	Define Prosthodontics	Lecture (1)	Knowledge	
	List branches of Prosthodontics			
	Define <ul style="list-style-type: none"> i) Conventional denture ii) Immediate denture iii) Over denture iv) Single complete denture v) Implant supported complete denture 			
	Describe reasons for tooth loss			
	Identify surfaces of the complete denture on a given model.			
Anatomy and physiology of complete denture	Discuss the clinical importance of extra oral landmarks	Lecture (1) Group Discussion Tutorial Practical Flip class room	Knowledge Practical on ideal model	Class Participation / Small group discussion
	Identify on picture <ul style="list-style-type: none"> i) Inter pupillary line ii) Ala tragus line iii) Canthus tragus line iv) Nasiolabial sulcus v) Vermillion border vi) Philtrum vii) Modiolous viii) Angle of the mouth. 			
	Identify intraoral landmarks of prosthetic importance on ideal model of maxilla <ul style="list-style-type: none"> i) Residual ridge ii) Maxillary tuberosity iii) Palate iv) Mid palatine raphe v) Incisive papilla vi) Palatine rugae vii) Torus palatines viii) Fovea palatinae ix) Post palatal seal x) Hamular notch xi) Cuspid eminence xii) Zygomatic process 			
	Discuss intraoral landmarks of Prosthetic significance for fabrication of mandibular complete denture. <ul style="list-style-type: none"> i) Residual ridge ii) External oblique ridge iii) Buccal shelf area iv) Mental foramen 			



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	<ul style="list-style-type: none"> v) Retro molar pad area vi) Mylohyoid ridge vii) Torus mandibularis viii) Internal oblique ridge ix) Genial tubercle 			
Tongue Form	Classify tongue form according to House Describe selection of occlusion depending on tongue condition: <ul style="list-style-type: none"> - Tongue position - Examination of floor of mouth posture - Tongue biting 	Lecture (1)	Knowledge	Class participation
Saliva	Discuss the importance of saliva in complete denture retention considering the following: <ul style="list-style-type: none"> - Salivary flow and viscosity - Medical conditions affecting the salivary flow and viscosity - Xerostomia Discuss the salivary factors contributing to complete denture retention. Discuss the management of edentulous patients with altered salivary flow	Lecture (1)	Knowledge	Class participation
Peripheral tissue attachment of denture bearing area	Identify the border structures that limit the periphery of the denture in maxilla in the given model <ul style="list-style-type: none"> i) Labialfrenum ii) Labialvestibule iii) Buccalfrenum iv) Buccalvestibule v) Hamularnotch vi) Posterior palatal seal area vii) Foveapalatinae Identify structures border structures that limits the periphery of the denture in mandible <ul style="list-style-type: none"> i) Labialfrenum ii) Labial vestibule iii) Buccalfrenum iv) Buccal vestibule v) Lingual frenum vi) Alveololingual sulcus vii) Retro molar pad viii) Pterygomandibulararraphae. 	Lecture (3) Group Discussion Tutorial Practical	Knowledge / skill/ practical on ideal model	Class Participation Class Test



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RESEARCH				
Topic	Objectives	Teaching methodology	Outcome	Assessment Tools
Writing Synopsis	<ol style="list-style-type: none"> 1. Develop a concise and clear synopsis of the research study. 2. Summarize the research background, objectives, and methodology. 3. Highlight the significance and expected outcomes of the study. 4. Ensure the synopsis is well-organized and easy to understand. 5. Adhere to required length and formatting guidelines. 	Lectures, Research meetings, small group discussions digital library sessions.	Submission & approval of Synopsis from Institutional IRB.	MCQs, Summative assignments research based.
Data collection	<ol style="list-style-type: none"> 1. Collect data using chosen methods (e.g., surveys, interviews). 2. Ensure data quality and accuracy. 3. Maintain participant confidentiality and anonymity. 4. Enter and manage data using SPSS and/or Excel. 5. Store data securely and organize for analysis. 			
Writing methodology with appropriate study design	<ol style="list-style-type: none"> 1. Describe the research design (e.g., experimental, observational). 2. Justify the chosen study design. 3. Outline the study setting, population, and sample. 4. Describe data collection methods (e.g., surveys, interviews). 5. Explain data analysis procedures. 			
Designing a questionnaire	<ol style="list-style-type: none"> 1. Define purpose and scope of the questionnaire. 2. Identify relevant variables to be measured. 3. Select suitable question types (e.g., multiple-choice, Likert scale). 4. Construct clear, concise, and unambiguous questions. 5. Ensure validity and reliability of the questionnaire. 			
Introduction to biostatistics and types of data	<ol style="list-style-type: none"> 1. Introduction to Biostatistics 2. Define biostatistics and its importance. 3. Explain the role of biostatistics in medical research. 4. Identify key concepts and applications of biostatistics. 5. Types of Data 6. Classify data into qualitative (categorical) and quantitative (numerical). 7. Identify types of quantitative data (discrete, continuous). 			



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	8. 3. Distinguish between nominal, ordinal, interval, and ratio scales.			
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COMMUNICATION SKILLS				
Topic	Objectives	Mode of Teaching	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
		Lecture/Tutorials		
Basic elements of communication	<ul style="list-style-type: none"> Define the following with reference to professional behavior: <ul style="list-style-type: none"> Active listening Empathy Verbal and Non-verbal communication 	Lecture (1)	Knowledge	BCQs OSPE & end Lecture Test
	<ul style="list-style-type: none"> Define the seven Cs of effective communication: clear, concise, concrete, correct, coherent, complete and courteous 			
	<ul style="list-style-type: none"> Describe process, principles and models of communication skills in health care context (basic elements and group dynamics) 			
	<ul style="list-style-type: none"> Describe the following: <ul style="list-style-type: none"> Two factors; Sender & receiver Four key components: Encoding, medium of transmission, decoding and feedback. 	Lecture (1)		
Models of communication	<ul style="list-style-type: none"> Describe the 3 models for communication: Linear, Interactional, and Transactional 	Lecture (1)	Knowledge and Attitude	BCQs OSPE & end Lecture Test
	<ul style="list-style-type: none"> Discuss the challenges and advantages in using the 4 models of physician-patient relationship (informative, interpretive, deliberative, paternalistic) in the local context 	Lecture (1) Pre Readings Based Small Group Activity		



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PATIENT SAFETY				
Topic	Objectives	Mode of Teaching	KSA Competencies Knowledge/ Skill/ Attitude	Assessment Tools
		Lecture/ Lectures		
Introduction to Patient Safety	<ul style="list-style-type: none"> Define patient safety and clinical environment 	Lecture (1) + Pre Readings (1)	Knowledge	BCQs + end Lecture Test
	<ul style="list-style-type: none"> Discuss International Patient Safety Goals 			
	<ul style="list-style-type: none"> Explain the basic aspects of patient safety process 			
	<ul style="list-style-type: none"> Discuss the importance of ethical practices and their relevance to patient safety 			
	<ul style="list-style-type: none"> Explain the reasons of harm to patients 	TBL (2) + Pre Readings (1)	Knowledge/ Skill/ Attitude	BCQs + Class Activities
	<ul style="list-style-type: none"> Describe the concept of 'burden of harm' 			
	<ul style="list-style-type: none"> Discuss the role of human factors and its impact on patient safety 			
	<ul style="list-style-type: none"> Discuss Universal Health Coverage by WHO 			
	<ul style="list-style-type: none"> Demonstrate the steps of disinfecting the dental impression for dental prosthesis. 	Practical (1)	Skill/ Attitude	OSCE
	<ul style="list-style-type: none"> Demonstrate handling, maintenance, and troubleshooting of dental instruments and equipment . 	Practical (1)	Skill/ Attitude	OSCE
	<ul style="list-style-type: none"> Demonstrate rubber dam application for patient's safety for dental procedures. 	Practical (1)	Skill/ Attitude	OSCE
	<ul style="list-style-type: none"> Practice drills for evacuating patients safely in the event of fire, natural disasters, or other emergencies in the dental clinic. 	Practical (1)	Skill/ Attitude	OSCE



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LEADERSHIP, PROFESSIONALISM & ETHICS (LeaPE)				
Topic	Objectives	Mode of Teaching	KSA Competencies Knowledge/ Skill/ Attitude	Assessment Tools
		Lecture/ Tutorials		
LEADERSHIP				
Self-Awareness; Self-efficacy, Emotional Intelligence and Attribution style	<ul style="list-style-type: none"> Define the terminologies 	Lecture (1)	Knowledge	MCQS
	<ul style="list-style-type: none"> Differentiate between EQ & IQ 		Knowledge	MCQS
	<ul style="list-style-type: none"> Identify one's own EQ score 		Skill/ Attitude	-
	<ul style="list-style-type: none"> Discuss the importance of developing EQ for professional and personal development 		Knowledge	MCQS
	<ul style="list-style-type: none"> Develop a plan for improving ones EI 	Small Group Activity (1)	Knowledge/ Skill/ Attitude	MCQS
	<ul style="list-style-type: none"> Discuss the importance of self-efficacy in professional success 	Lecture + Practical (1)	Knowledge	MCQS
	<ul style="list-style-type: none"> Identify one's own locus of attribution as per theory by Bandura 		Skill/ Attitude	-
Time Management, Self-Management & Personal Development	<ul style="list-style-type: none"> Discuss strategies for managing time effectively 	Workshop (3)	Knowledge	MCQS One on one Feedback
	<ul style="list-style-type: none"> Discuss strategies for improving one's own learning and professional productivity 		Knowledge	
	<ul style="list-style-type: none"> Identify personal strengths and weakness 		Skill/ Attitude	
	<ul style="list-style-type: none"> Develop strategies for enhancing productivity 		Skill/ Attitude	



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PAKISTAN STUDIES				
Topic	Objectives	Mode of Teaching	KSA Competencies	Assessment Tools
		Lecture/ Tutorials	Knowledge/ Skill/ Attitude	
HISTORICAL PERSPECTIVE				
People & Land	<ul style="list-style-type: none"> Describe the geographical Features of Pakistan, its location, features of the land and important landmarks 	Lecture (3)	K/A	BCQ /Assignment
	<ul style="list-style-type: none"> Name the countries neighboring Pakistan 		K/A	
	<ul style="list-style-type: none"> Discuss the significance of prehistoric civilizations of the subcontinent, i.e., Mehrgarh, Indus Valley Civilization (Mohenjo-Daro & Harappa), and Gandhara. 		K/A	
	<ul style="list-style-type: none"> Discuss the historical contacts made by Indians with traders, travelers and conquerors from the Middle East, Persia, Central Asia, etc 		K/A	
	<ul style="list-style-type: none"> State relevant example of foreign assimilations into mainstream India 		K/A	
	<ul style="list-style-type: none"> Discuss the reasons that brought them to the Subcontinent. 		K/A	
	<ul style="list-style-type: none"> State relevant examples of cultural & religious assimilations as witnessed in the art, literature and political/ religious movements 		K/A	
Ideological Rationale for the creation of Pakistan	<ul style="list-style-type: none"> Explain the contributions made to the Pakistan Movement by the following: <ul style="list-style-type: none"> Sir Syed Ahmed Khan, Sir Allama Muhammad Iqbal, Quaid-e-Azam Muhammad Ali Jinnah 	Lecture (3)	K/A	BCQ /Assignment
Factors leading to Muslim separatism	<ul style="list-style-type: none"> Describe the factors that led to Muslim separation 	Lecture (1)	K/A	