

RIHS MEDICAL & DENTAL COLLEGE



MODULE XI: 20611 MODULE XII: 20612

STUDY GUIDE BLOCK 6 PLANNED & DESIGNED BY DME, RIHS

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Module XI: 20611

Module XII: 20612

Session 2024-25

Pre-requisite: Block 5

Teaching faculty & Curriculum committee members

Disciplines	Name of Faculty
Principal	Prof. Dr. Saad Asad
Pathology	Dr. Shafaq Khadija
Pharmacology	Prof. Dr. Seemi Gul
Community Dentistry	Prof. Dr. Rubina Mumtaz
Dental Materials	Dr. Sadaf Humayoun
Behavioral Sciences	Ms. Nargis Munir
Junior Operatives	Dr. Farah Mushtaq
Junior Prosthetics	Dr. Amna Amjad
DME	Dr. Madiha Akhwand
k duration	12 Weeks
k Coordinator	Prof. Dr. Rubina Mumtaz Dr. Sadaf Humayoun
	Disciplines Principal Principal Pathology Phathology Community Dentistry Dental Materials Behavioral Sciences Junior Operatives Junior Prosthetics DME K duration K Coordinator

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Integrated Curriculum	• The Integrated Curriculum is becoming an increasingly popular
	concept internationally, in the field of Medicine.
	• The goal of integration is to break down barriers between the basic and
	clinical sciences, currently in practice as a result of traditional
	curricular models.
	• Integration should promote retention of knowledge and acquisition of
	skills through repetitive and progressive development of concepts and
	their applications.
	• There are three areas in need of improvement and clarification for
	successful integration:
	1. Ensuring synchronous presentation of material
	2. Avoiding the tendency to diminish the importance of the basic sciences,
	and
	3. Using unified definitions
	(MEDICAL TEACHER)
	• The model adapted in this institution is an integrated, modular,
	• First spiral is for two years & second spiral is spread over three years
	• This spiral is for two years & second spiral is spirad over three years.
Studants as a	Student involvement in an integrated curriculum is the key to the process of
	making him a self-directed, competent and ethical learner who can adjust
curriculum	and compete with the latest trends in medical education in todays and
coordinator and Class	tomorrow's world. In order to achieve this:
Representative	1. Students will help the Module coordinators in accomplishing all tasks
	assigned to him/her.
	2. They will be a part of curriculum planning and implementing team.
	3. They will inform/discuss the ongoing activities /problems in teaching
	and learning with module coordinators and curriculum chairperson.
Module Rationale:	The module XI equips students with critical knowledge and skills in dental
	and medical sciences, focusing on CNS pharmacology, neoplasia,
	cements implants casting processes and endodontic materials ensuring
	comprehensive understanding for effective clinical practice. Additionally, it
	addresses strategies for oral disease prevention, health promotion, and
	managing occupational hazards, preparing students for safe and responsible
	protessional practice.
	covering pharmacology, pathology and materials science. It emphasizes
	understanding and managing infections, using dental materials effectively.
	and integrating social sciences to enhance patient care and promote oral
	health. By addressing these areas, students are prepared for comprehensive
	and empathetic dental practice.

	Module XI:
Module Outcomes	• Describe the drugs acting on the Central Nervous System
	 Describe the drugs acting on the Central Netvous System Discuss the nathogenesis of Neoplasia
	 Discuss the pathogenesis of recognisia Describe the pathogenesis brief clinical features prevention and
	diagnosis of infactions of the respiratory system
	• Classify dental coments detailing their clinical applications
	• Classify dental cements, detaining their chinical applications,
	 Describe dental implant materials focusing on associategration
	• Describe dental implaint materials, focusing on osseonicegration,
	 Discuss the steps of the casting process including compensation for
	• Discuss the steps of the easing process, metuding compensation for shrinkage, common defects, and methods to avoid them
	• Explain the objectives of endodontic materials, their types uses and
	• Explain the objectives of endodontic materials, then types, uses, and ideal requirements
	• Examine and implement basic concepts and strategies for preventing
	and controlling major oral diseases
	 Evaluate methods of health promotion and health education
	Summarize and differentiate occupational bazards in dentistry
	considering their impact on human health and the environment
	Module XII:
	• Explain the use and mechanisms of cytotoxic drugs, and medications
	for UTIs, herpes, and toxoplasmosis.
	• Describe the pathology of various genetic disorders.
	• Discuss the pathogenesis of central nervous system infections.
	• Outline the pathogenesis, clinical features, prevention, and diagnosis
	of skin and soft tissue infections.
	• Detail the pathogenesis, clinical features, prevention, and diagnosis
	of genitourinary system infections.
	• Review different investment materials used in dentistry.
	• Discuss the composition, properties, and manipulation of dental
	casting alloys.
	• Classify dental ceramics and describe their composition, uses, and
	properties.
	• Examine the application of sociology, psychology, and anthropology
	in dentistry, focusing on pediatric dentistry, dental anxiety, and the
	dentist-patient relationship.
	• Apply principles and strategies from behavior change theories to
	improve oral health behaviors.
	• Analyze the impact of social determinants on oral health behavior.

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Learning methodology	to engage the students' attention, through ways to interact with the content, the instructor, and their classmates. Accordingly, interactive lectures include segments of knowledge transfer combined with segments where students interact. One of the things that make the lecture interactive is the ability of the instructor to select the content of the lecture segments based on the students' needs. This demands a prior search for the baseline knowledge of the students at the start of the lecture. If students have difficulty answering a question, or an activity fails to develop the concept
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	difficulty answering a question, or an activity fails to develop the concept
	annound and a function, of an activity tank to activity in the concept
	in most student groups, it's time to find a new and better way to deal with
	the material II clearly gives a better concept of the content and keeps
	students' attention cantured throughout as compared to vester years'
	didactic lectures
	uldactic lectures.
	Small Group Discussion (SGD): The purpose and technique of small
	group teaching is that it is learner-centered, with all students joining in free
	discussion on a particular topic. A typical 'small group' is around eight to
	12 learners facilitated by a teacher. The steps of SGD are Forming,
	Storming, Norming & Performing. The teacher acts only as a facilitator.
	Students are allowed to use their books or other search material during the
	discussion. SGD is a good method to clear the concepts and develop
	communication and conflict solving skills in the students.
	Departmental teaching Practical Demonstrations: This is performance-
	based teaching & learning methodology where students learn handling and
	uses of Practical Demonstration oratory equipment and models, safety rules
	and various clinical skills.
	Dissection: Where necessary teaching of gross Anatomy is aided by
	cadaver dissection / model demonstration.
	Problem based/ Task based/ Case based learning (PBL/TBL/CBL):
	Students are presented with real life problems/tasks/cases. They are
	motivated through a standard process to seek answers to the given problem.
	task or case. This is a highly effective method to capture and maintain
	students' interest in patients' problems and their solution
	Flipped Class Room: A flipped classroom reverses traditional learning by
	having students study new material at home through videos or readings and
	then using class time for interactive hands on activities and discussions
	This method enhances student engagement and allows for personalized
	instruction
	Assignments and Presentations: Dath of mathedalacies are most to
	Assignments and Fresentations: Both of methodologies are meant to
	make the students self-directed learners and good communicators by
	seeking knowledge from multiple sources and presenting it.
Assessment	Multiple Choice Questions (MCQs): Single best type
metnodology:	SEQS: Snort Essay Questions
	Objective Structured Practical/Clinical Examination

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(OSPE /OSCE)			
 Learning Objectives By the end of this block, students will be able to:	Learnin g Domain	Teaching& learning strategy	Assessme nt
PHARMACOLOGY			
Discuss the drugs acting on Central Nervous System			
 Sedative Hypnotic agents Classify Sedative Hypnotic agents. Explain Mode of action of Sedative Hypnotic agents Describe Therapeutic uses of Sedative Hypnotic agents Explain Adverse effects of Sedative Hypnotic agents Describe Pharmacokinetics properties of Sedative Hypnoticagents . 	C1 C2 C3	IL SGD Practical Demonstration	MCQ SEQ OSPE
 Antianxiety drugs Classify Antianxiety drugs Explain Mode of action of Antianxiety drugs Explain Therapeutic uses of Antianxiety drugs Describe Adverse effects and Pharmacokinetics properties of Antianxiety drugs 	C ₁ C ₂ C ₃	ILSGD Practical Demonstration	MCQ SEQ OSPE
 Antiepileptic drugs Classify Antiepileptic drugs Explain Mode of action of Antiepileptic drugs Describe Therapeutic uses of Antiepileptic drugs Explain Adverse effects of Antiepileptic drugs Describe Pharmacokinetics properties of Antiepilepticdrugs 	C1 C2 C3	ILSGD Practical Demonstration	MCQ SEQ OSPE
 General anesthetic agents Classify General anesthetic agents Explain Mode of action of General anesthetic agents Describe Therapeutic uses of General anesthetic agents Explain Adverse effects of General anesthetic agents Explain Pharmacokinetics properties of General anestheticagents 	C1 C2 C3	ILSGD Practical Demonstration	MCQ SEQ OSPE
Local anesthetic drugs			

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Classify Local anesthetic drugs	C1	IL	MCQ
• Explain Therapeutic uses of Local anesthetic drugs	C ₂	SGD	SEQ
Describe Adverse effects of Local anesthetic drugs	C3	Practical	OSPE
Explain Pharmacokinetics properties of Local anesthetic drugs		Demonstration	
Skeletal Muscle Relaxant			
Classify Skeletal Muscle Relaxants	C1 C2 C3	IL SGD	MCQ
• Explain Mode of action of Skeletal Muscle Relaxant		Practical	SEQ
Describe Therapeutic uses of Skeletal Muscle Relaxant		Demonstration	OSPE
• Explain Adverse effects of Skeletal Muscle Relaxant			
Describe Pharmacokinetics properties of Skeletal Muscle			
Alaabal			
Classify Alcohols			
Explain Mode of action of Alcohol			
Describe Therapeutic uses of Alcohol	C1 C2 C3	IL SGD	МСО
Explain Adverse effects of Alcohol		Practical	SEQ
Describe Pharmacokinetics properties of Alcohol		Demonstration	OSPE
Drugs for Migraine Headache			
Classify drugs for Migraine Headache	C1 C2 C3	IL SGD	MCQ
• Explain Therapeutic uses of drugs for Migraine Headache		Practical	SEQ
• Describe Adverse effects of drugs for Migraine Headache Explain		Demonstration	OSPE
Pharmacokinetics properties of drugs for Migraine			
Headache			
CNS stimulant agents			
• Classify CNS stimulant agents		H COD	MGO
Explain Mode of action of CNS stimulant agents	C1 C2 C3	IL SGD	MCQ
Describe Therapeutic uses of CNS stimulant agents		Practical	SEQ
• Explain Adverse effects of CNS stimulant agents		Demonstration	OSPE
Describe Pharmacokineucs properties of CNS stimulant agents			
Classify Antipsychotic drugs	C1C2C3	IL SGD	MCO
Classify Antipsychotic drugs Evaluin Mode of action of Antipsychotic drugs Levelines	010205	Practical	SEO
Explain Mode of action of Antipsychotic drugs Laxatives		Demonstration	OSPE
Evening Advance offects of Antipevelotic drugs		Demonstration	ODIL
 Explain Adverse effects of Antipsychotic drugs Describe Pharmacol instice properties of Antipsychotic drugs 			
Antidepressant agents			
Classify Antidepressant agents			
Describe Therapeutic uses of Antidepressant agents	C	ILSGD	MCQ
Explain Adverse effects of Antidepressant agents	C_1 C_2	Practical	OSPE
Describe Pharmacokinetics properties of Antidepressantagents	C ₃	Demonstration	

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Drugs used in Parkinsonism			
Classify drugs used in Parkinsonism	C	II SGD	MCO
• Explain Mode of action of drugs used in Parkinsonism	$\begin{bmatrix} C_1 \\ C_2 \end{bmatrix}$	Practical	SEQ
Describe Therapeutic uses of drugs used in Parkinsonism	C ₃	Demonstration	OSPE
• Explain Adverse effects of drugs used in Parkinsonism		Demonstration	
Describe Pharmacokinetics properties of drugs used in Parkinsonism			
Opioids			
Classify Opioids		H G G D	1400
Explain Mode of action of Opioids	$\begin{vmatrix} C_1 \\ C_2 \end{vmatrix}$	ILSGD Prostical	MCQ
Describe Therapeutic uses of Opioids	$\begin{bmatrix} C_2 \\ C_3 \end{bmatrix}$	Demonstration	OSPE
• Explain Adverse effects of Opioids and Pharmacokinetics properties of Opioids			0012
Drugs for treating Bronchial asthma			
Classify Antiasthmatic drugs			
Describe Therapeutic uses of Antiasthmatic drugs	C_1	ILSGD	MCQ
 Explain Adverse effects of Antiasthma tig drugs 	C_2	Practical	SEQ
 Explain Adverse effects of Antiastima de drugs Describe Pharmacokinetics properties of Antiasthmatic drugs 	C ₃	Demonstration	USPE
Drugs used in COPD			
Classify drugs used in COPD		IL, SGD	
Explain Mode of action of drugs used in COPD	C	Practical	MCO
Describe Therapeutic uses of drugs used in COPD	$\begin{array}{c} C_1 \\ C_2 \end{array}$	Demonstration	SEO
• Explain Adverse effects of drugs used in COPD	C_3		OSPE
• Explain Pharmacokinetics properties of drugs used in COPD			
Antitussive drugs			
Classify Antitussive drugs			
Explain mode of action of Antitussive drugs	C_1	IL\$Đ	MCQ
Describe therapeutic uses of Antitussive drugs	C_2	Practical	OSPE
 Explain Adverse effects of Antitussive drugs 	C3	Demonstration	USIL
 Describe pharmacokinetics of Antitussive drugs 			
2. Discuss the Cytotoxic drugs and drugs used in UTI, herpes andtoxoplasmo	sis & Drug	- drug interaction	
Cytotoxic drugs			
Drugs for TB			
Drugs used in meningitis	C_1	IL, SO	MCQ
• Quinolones	C_2	Practical	OSPE
Cell wall synthesis inhibitors		ation	USIL
Drugs used in herpes			
Drugs for treating toxoplasmosis			
Drug - drug interaction			
PATHOLOGY			
3 Genetics			
Classify Genetic disorders	C		MCO
• Explain the transmission pattern of Single gene	C	Practical	SEO
disorders		Demonstr	OSPE
• Explain the pathogenesis and clinical features of diseases caused	C	ation	
by mutations in genes encoding structural proteins, receptor proteins, enzyme proteins.			
proteins, enzyme proteins.			

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	• Describe the pathogenesis of different Chromosomal	C		
	disorders	р		
4	Practical: Interpret the Diagnostic tests for Genetic disorders	1		
4	Enlist the constitue encoding of Manineitie (Destanial formed	C		
	• Enfist the causarive organisms of Meninghus (Bacteriai, Jungai, viral, parasitic).		IL,SGD	MCQ
	 Describe the clinical features and pathogenesis of Meningitis 	C	Practical Demonstration	SEQ OSPE
	• Describe the clinical features and pathogenesis of Rabies.	C		
	• Describe the clinical features and pathogenesis Polio.	C		
	 Describe the clinical features and pathogenesis Viral Encephalitis. 	C		
	• Practical: Interpret the CSF R/E report	Р		
5	Skin & Soft Tissue Infections			
	• Enlist the causative organisms of skin and soft tissue infections.	C		
	• Describe the brief clinical features and pathogenesis of abscesses (folliculitis, carbuncle, furuncle).	C	IL,SGD Practical	MCQ SEO
	• Describe the brief clinical features and pathogenesis ofherpes.	С	Demonstr	OSPE
	• Describe the brief clinical features and pathogenesis ofmeasles.		ation	
	 Describe the brief clinical features and pathogenesis ofmumps. Describe the brief clinical features and pathogenesis ofchicken 	C		
	 Practical: Diagnose the cases of skin and soft tissue 	Р		
	infections.			
6	Infections of Respiratory tract			
	Upper respiratory tract infections			
	• Enlist the Bacteria causing upper respiratory tractinfections	C		
	Describe Lancefield Classification of streptococci	C	IL COD	MGO
	• Describe the pathogenesis of upper respiratory infections (bacterial, viral fungal)	C	IL,SGD Practical Demonstr	MCQ SEQ OSPE
	• Describe the pathogenesis of Pneumonia.	C	ation	ODIE
	Describe the Pathogenesis, Brief clinical features, oftuberculosis.Describe the prevention and diagnosis of			
	Mycobacterium / A typical Mycobacteria.Describe the Pathogenesis, Brief clinical featurescorona virus	C		
	infection Practical:			
	Perform and interpret ZN stain			
	Interpret tuberculin test	D		
7	Neoplasia	1		
	• Describe the Characteristics of Benign and malignantneoplasms			
	• Explain the Nomenclature of neoplasia			
	• Differentiate between anaplasia and dysplasia			
	Describe Role of screening for tumor CarcinogenesisTumor suppresser genes.		IL SGD	MCQ SEO
	• Define Tumour immunity		Practical	OSPE
	• Describe the course of Tumour progression		Demonstr	
	• Describe the Role of FNAC. Tissue bionsy	C	ation	

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	 Resin Modified Glass ionomer cement Compomer Cermets Calcium Hydroxide Copper cement 		IL SGD Practical Demonstr ation	MCQ SEQ OSPE
	 Class foromer cements Zinc phosphate cement Zinc polycarboxylate cements Zinc oxide-Eugenol cements 			
	 Describe and discuss the Composition, Setting Reactions, Properties and Applications of Class isogener asymptotic 	С		
9	Dental Cements Classify Dental Cements	C		
	DENTAL MATERIALS			
	 Hepatitis B, C. Describe the pathogenesis and Practical Demonstration diagnosis organismcausing UTI (E. coli, Klebsiella, Proteus, Pseudomonas, Staph saprophyticus, Streptococcus faecalis). Practical: Interpret the report of urine routine examination 	Р		
	 AIDS. Describe the Pathogenesis and Practical Demonstration diagnosis 			
	 Describe the Pathogenesis and Practical Demonstration diagnosis of Gonorrhea. Describe the Pathogenesis and Practical Demonstration diagnosis 		ation	
	 Enlist the Organisms causing Genital tract infections (including STDs) Describe the Pathogenesis and Practical Demonstration diagnosis of 	С	IL SGD Practical Demonstr	MCQ SEQ OSPE
	 STDs) Describe the pathogenesis and Brief clinical features of Gynecological infections (bacterial vaginosis, PID) Enlist the Organisms causing Urinary tract infections 			
	 Describe the prevention and diagnosis of upper urinarytract infections (upper and lower) Describe the pathogenesis and Brief clinical featuresGenital tract infections (including 			
0	Describe the pathogenesis and Brief clinical featuresUrinary tract infections (upper and lower)			
8	Neoplastic disease			
	 Describe the pathogenesis of squamous cell carcinoma Practical: Observe and identify the histopathologicalchanges in 	Р		
	 Emist the Orading and staging of rumors Enlist the Common types of oral cancers and describeits diagnostic criteria. 			
	serum tumor marker.			

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	 Discuss the various clinical applications of dental cementsas: Filling material Liners Bases Luting Agents Cavity Varnish Differentiate between liner and base Discuss and dontia caments 	C		
	Practical: Manipulation of different cements	1		
10	Dental Implants			
	Classify dental Implants			
	•Enlist materials for dental implants		П	MCO
	•Explain Osseo integration	C	SGD	SEO
	•Discuss biocompatibility of dental implants			
	•Discuss the advantages and disadvantages of dental implants			
11	Base Metal Alloys & Noble Metal Alloys			
	 Describe and discuss the Composition and properties of Cobalt chromium Nickel chromium alloys Describe and discuss the manipulation of base metal castingalloys in relation to their: Fusion temperature Mode of melting Type of investment material used Trimming and polishing Compare and contrast properties of base metal casting alloyand casting gold alloy Discuss biocompatibility of various constituents of base metal alloys 	С	IL SGD	MCQ SEQ
12	Endodontic Materials			
	 Classify endodontic material Discuss the Ideal requirement of Lubricants Irrigants Discuss and enlist Intracanal medicaments Describe sealants and their properties Discuss bulk filling material in endodontic treatment 	С	IL SGD	MCQ SEQ
13	Casting Alloys			
	Describe the composition, properties and manipulation of casting alloys	С	IL SGD	MCQ SEQ
14	Casting process Describe the types of casting	C	IL SGD	MCQ SEO
	 Describe the components of investment molds and theirfunction Discuss the defects in casting and methods to avoid them 		500	SEQ
15	Investment materials			
	• Outline steps in making cast restoration	C &P		
				_

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	• Enlist three main groups of investment material	C	ILSGD	MCQ SEQ
	• Discuss composition, setting reaction, properties and uses of different		Practical	OSPE
	 Discuss the compensating expansion takes place in eachinvestment 	C	Demonstration	
	Compare the properties of investment material	C		
6	Dental Ceramics			
	 Define Dental Porcelain and discuss its Composition Processing of Porcelain Fused to metal prosthesis Uses Firing, glazing of porcelain Define the following terms Sintering Casting and Slip Casting Hot Pressing CAD/CAM Explain Properties of Dental Ceramics Describe Toughening mechanism of Dental Ceramics Discuss aluminous porcelain 	С	IL SGD	MCQ SEQ
	• Discuss injection molded and pressed ceramic			
	• Discuss the advantages of CAD-CAM restoration			
7	Pasia concents and strategies for preventing and controllingmaior			
	basic concepts and strategies for preventing and controllinginajor			
	I evels of prevention			
	 Summarize and interpret the four levels of prevention of primordial, primary, secondary & tertiary prevention Summarize and interpret the two approaches to prevention Application of prevention levels for Oral cancers as an example 	C C P		
	Dressention of conice		ИССР	
	 Explain actiology of caries progression Describe the epidemiology of caries Examine role of diet and nutrition in caries Identify and interpret caries activity tests Examine role of Fluorides, fluoridation techniques Demonstrate application of topical fluoride Demonstrate application of ART Demonstrate application of Pit and fissure sealants Discuss the concept of a caries vaccine 	P P P C	DSL Practical Demonstr ation & Clinic	MCQ SEQ OSPE Logboo k

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	Review progress outcomes of accumulation of plaque			
	Demonstrate plaque clinically			
	• Review and demonstrate chemical methods of plaqueremoval	р		
	Review and demonstrate mechanical methods of plaque	P		
	removal	Р		
	Periodontal disease and its prevention			
	• Summarize progression of gingivitis and periodontitis	~		
	• Apply and interpret tools of periodontal diagnosis			
	Differentiate levels of periodontal disease	C F		
	• Justify treatment needs according to level of			
	periodontal disease	C & P		
8	Methods of health promotion and health education			
	Definition and principles of oral health promotion		IL COD	MCC
	• Define and describe principles of oral health promotion	C	ILSGD	MCQ
	• Discuss and apply principles of OHP to the OttawaCharter of		Practical	OSPE
	health		Demonstration	
	• Interpret the upstream-downstream approach			
	• Summarize approaches to oral health promotion			
	Definition and principles of oral health education			
	• Define and describe principles of oral health education	C		
	• Demonstrate methods of imparting health education			
	• Organize and plan a health education program	A		
	• Differentiate between oral health education and oralhealth promotion	С		
19	Occupational hazards in dentistry to human health and the			
	Environment			
	Categories of occupational hazards for dental professionals	C		
	Classify categories of occupational hazards for dental professionals		ILSGD	
	Summarize Infectious hazards and infection control protocols for dentistry	C & P	DSL Practical	MCQ
	Demonstrate waste disposal management	Р	Demonstration	SEQ OSPE
	Summarize, assess, and implement against			
	non-infectious hazards	C		
	• Ergonomic hazards,	C		
	Psychosocial hazards			
	Burn out			
	Mercury as a health and environmental hazard			
	Demonstrate amalgam use protocols		IL	
	• Summarize the role of Amalgam in the Global MercuryCycle	C	SGD	
	• Mercury as a health hazard to the dental professionand	C	DSL	
	Demonstrate amalgam Waste management in a dentaloffice	C		
20	Sociology, psychology and anthropology as applied to dentistry with a special focus on child psychology for pediatric dentistry and dentist-patient relationship in view			

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	Introduction to behavioral sciences		ILSGD	MCQ
	• Summarize disciplines of behavioral sciences including	C	DSL	SEQ
	Sociology		Practical	OSPE
	Cultural anthropology		Demonstration	
	Health behaviors	С		
	Psychology in social sciences			
	 Discuss Taboos & myths 			
	 Demonstrate History taking and appropriate chairside mannerism 	P & A		
	Introduction to child psychology			
	• Discuss the significance of child psychology in dentistry			
	Discuss and review Behaviorism			
	• Discuss and review theories in child psychology:			MCO
	Psychodynamic and behavioral	C	IL SGD	SEO
	• Discuss and review classical conditioning and		DSL	OSPE
	instrumental conditioning theories	С		
	• Review factors that affect a child's behavior	C		
	• Apply tools to evaluate degree of child cooperation	C		
	• Review and apply behavior management techniquesin children:			
	• pharmacological and			
	non-pharmacological			
21	Principles and applications of the theories of behaviorchange in view			
	of health behaviors			
	• Review and discuss the	С	ILSGD	MCO
	• Health Belief Mode		DSL	SEQ
	• Theory of reasoned action / planned behavior	C		OSPE
	Transtheoretical Model	C		
	• Social cognitive theory	C		
	 Social norms theory Diffusion imposition theory 	С		
	Diffusion innovation theory			
22	The role of social determinants of health and their impact on health			
	behavior			
	Determinants of health	G	н	1460
	• Discuss and review the Biomedical model of health-	C	IL SGD	MCQ
	• Discuss and review the social model of health-	С	DSL	OSPE
	• Differentiate the social determinants of health	C	201	
	Dentist patient communication			
	• Discuss the Parsons Theory of sick role	С	IL	
	• Review the prototypes of doc-patient relationships	С	SGD	MCQ
	• Differentiate the influences on doctor-patientrelationship	C	Clinic	SEQ
	• Conducting a doctor-patient interaction with historytaking	D		OSPE
	• Evaluate dental anxiety in a patient	r		book
	• Review techniques to handle a dentally anxious patient			JUUK
	PRE-CLINICAL DENTISTRY			

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23	Tooth Arrangement			
24	Class V cavity preparation -Define class V cavity, Conservative and conventional cavities -Explain different forms of class V cavity, -Explain different materials used for class V cavity restoration.	C P	Practical demonstr ation/ SGD	MCQ SEQ OSPE
25	Infiltration technique on phantom head	СР		
26	Chair positioning for different procedures	СР		
27	Manipulation of heat polymerizing resins	СР		
28	Class III cavity preparation: -Define class III cavity, -Explain different forms of class III cavity, -Explain different materials used for restoration	СР		
29	Mandibular nerve block technique on phantom head	СР		

LEARNING RESOURCES:

Pharmacology:

- Basic & Clinical Pharmacology by Katzung 14th Edition.
- Rang and Dale Pharmacology 8th Edition.
- Basis of Pharmacology by Goodman & Gillman Latest Edition.
- Bentley's Textbook of Pharmaceutics by Jain 2012 An adaption.
- Medical Pharmacology & Therapeutics by Walker 3rd Edition,
- Netter's illustrated Pharmacology by RAFFA latest Edition.

Pathology:

- Robbins and Cortan Pathologic basis of disease 10th Edition
- Basic Pathology by Kumar and Cotran 10th Edition
- Medical Microbiology and Immunology by Warren Levinson 14th Edition

Dental Materials:

- Phillips' Science of Dental Materials by Anusavice, Shen, Rawls 12th edition
- Applied Dental Materials by McCabe and Walls 9th edition
- Craig's Restorative Dental Materials by Sakaguchi, Powers 13th edition

Community Dentistry:

- A textbook of Public Health Dentistry by C M Marya 1st edition
- Essentials of Preventive and Community Dentistry by Soben Peter 4th edition
- Textbook of Preventive and Community Dentistry by S SHiremath 2nd edition
- Textbook of Preventive and Community Dentistry by Joseph John 3rd edition

Preclinical:

- Sturdevant's Art and Science of Operative Dentistry by Andre Ritter 7th edition
- Preclinical manual of Prosthodontics by Lakshmi S 2nd edition
- Preclinical Dental Sciences; Workbook for Dental Students by Kefi Iqbal 2nd edition

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