

# **Curriculum and study Guide**

# Third Year BDS

# Subject: General Medicine

## Institute of Dentistry,

# **CMH Lahore Medical College**

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### Introduction to study guide

This study guidebook is designed for Dental undergraduates by consolidated effort of all subjects across the year to provide Dental students of IODCMH Lahore Medical College a resource material which would highlight important aspects of curriculum. The study guide aims to promote self-regulated lifelong learning among students by giving them the control over their learning.

The pervasive curriculum aspects of undergraduates' competencies, assessment policies and curriculum coordinators are mapped in his guidebook. Horizontal integration across the year better conceptual understanding while vertical integration promotes clinically relevant understanding. IOD CMH aims to improve health indicates of society by improvement of students and doctors in preventive health service provision and health education provision to society through community programs.

The study guide gives an overview of intended course outcomes and objectives in relation to the course content. The assessment methodology tailored to intuitional strategy is provided.

This study guide has been carefully designed keeping in view PMDC and NUMS curriculum and guide lining dedicated effort by faculty is done to make this guide tailored to student's needs. Students feedback has been seeded and incorporated at all stages during study guide development. Curriculum is a living dynamic entity. Our aim to improve it by every passing day. This humble effort of all faculty acts as a guiding light for our dear students.

#### **Vision Statement**

The CMH Lahore Medical College and Institute of Dentistry aims to provide a highly conductive environment to train a new generation of technology savvy and socially responsible healthcare providers who are well-versed with their role within a healthcare team and while serving the community, demonstrate abilities to practice requisite communication skills, empathy, lifelong learning, critical thinking, and decision making at a national or an international facility.

#### **Mission Statement**

The mission of CMH Lahore Medical College and Institute of Dentistry is to undertakefollowing steps to materialize their vision:

1. Ensure provision of a conducive educational environment where students feel well-supported through implementation of learner-centered teaching approaches, inbuilt strong feedback loops and physically comfortable learning environment.

2. Sensitization of students about their role in the society as socially responsible professionals through participation in extracurricular activities like community-based programs, patient welfare societies, blood donors' society, and productive contribution to combat local and national calamities.

3. Students' exposure to the healthcare community, where sympathy and empathy are the cornerstones of our practice. Students commit to understanding their patients not only through their medical conditions but also through their emotions, fears, and unique life experiences. Byfostering a culture of compassion, students aim to provide not just medical care but genuine understanding and support to enhance the well-being of those we serve.

4. Students' exposure to cutting-edge technology through campus learning management system and development of their e-portfolios.

5. Leadership and Smart Learning Strategies through implementation of interprofessional curriculum for undergraduate health professions' education students enrolled in medical, dental, allied health sciences, and nursing programs.

6. Provision of opportunities to undergraduate and post-graduate students to have practical experience of leading, working as a team member, critical thinking, problem solving, and decision making.

7. Formal teaching and training of professionalism for students to develop their full potential including communication, and lifelong learning skills through portfolio development among undergraduate and postgraduate students.

8. Implementation of a task-based and outcome oriented longitudinal module on 'Research' for undergraduate students, leading to publication of research article/s and for cultivation of evidence-based practices.

#### **Rationale of Curriculum**

The curriculum is designed to address both local and international needs. The curriculum is focused to prepare students for the international licencing exams and training abroad as well as empowering them to treat local patients with safety and efficiency. Dentists work as a healer in the community. A dentist should have evidence based and update knowledge about the epidemiology of the practicing area. The curriculum of IOD CMH LMC is planned with a collaboration of clinical and basic sciences faculty in addition to students and family medicine department to ensure that the prevailing health conditions of the society are treated and dealt with effectively. The emergence of new techniques in preservation of existing dentition and restoration of the lost dentition and oral structures has led to changes in the curriculum with more emphasis on new and advanced techniques, procedures and evolution of new and advanced technology (e.g. CADCAM & Implants).

#### **Introduction to Curricular Framework**

This study guide is developed as resource assistance to the students and faculty. The study guide development process included representation from teaching faculty, management, leadership of college and students. The study guide is made to achieve and alignment between societies' needs, institutional needs, patient needs & student's needs.

The curriculum implemented is a hybrid type of curriculum which has both horizontal and vertical integration. Spiral integration is introduced as an adjunct to horizontal and vertical integration. The curriculum spans over 3 phases

**PHASE 1 (Year 1&2)**: Includes basic sciences Anatomy, physiology, biochemistry, Oral biology, Science of dental Material, Pharmacology and Community Dentistry, it also includes preclinical Prosthodontics, general pathology.

**PHASE 2 (Year 3<sup>rd</sup>& Final Year**): includes Periodontology, Oral Pathology, Oral Medicine, General Medicine, General Surgery, Oral Surgery, Prosthodontics, Orthodontics, Operative Dentistry.

### **4 Years Curricular Framework**

#### **BDS SCHEME OF STUDIES**

BASIC DENT	AL SCIENCES / PRE-	CLINICAL YEARS	
	AL YEAR		
1 <sup>st</sup> YEAR	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	Final Year
Anatomy	Science of Dental Material	Periodontology	Prosthodontics
Physiology	Gen. Pathology	Oral pathology	Operative Dentistry
Biochemistry	Pharmacology	Oral Medicine	Oral Surgery
Pak studies & Islamic Studies	Behavioral Sciences	Gen. Medicine	Orthodontics
Oral Biology	Community Dentistry	Gen. Surgery	
	Pre-Prosthodontics	Oral Surgery	
	Pre-Operative	Prosthodontics	
	Dentistry		
Self-Directed Learning Sessions			

### **BDS Curricular Map**



### **BDS Medicine Program Outcomes**

At the end of 3<sup>rd</sup> year BDS Medicine program, thestudent should be able to:

- 1. Independently assess the patients, order relevant investigations and formulate a treatment plan with help of fellow medical colleague
- 2. Practice evidence-based medicine
- 3. Refer for modification of medical treatments according to patient's special needs, if any, in the form of medical conditions, physical or mental disabilities etc
- 4. Assess and refer the patients with case difficulty indices requiring consultation or treatment by specialists.
- 5. Show empathy and respect in their attitude and behavior towards their patients.
- 6. Maintain high ethical and professional standards in their pursuit of clinical excellence.
- 7. Draw upon their existing knowledge and update it through continuing education programs.
- 8. Exercise infection control protocol guidelines laid out by their local health councils.
- 9. Exercise management qualities to maintain single or multiple unit private practices where applicable.
- 10. Work in a team of other health care professionals including doctors and paramedical staff etc.
- 11. Maintain patient records with emphasis on legal and patient confidentiality aspects.
- 12. Provide basic life support to patients requiring critical care in or outside medical set up.
- 13. Identify and manage and ask for help in medical emergencies which might arise during routine dental practice
- 14. Demonstrate clear verbal and written communication skills.

### **Undergraduate Competencies**

IOD CMH Lahore medical College envisions to produce graduates who are proficient in following competencies at the end of 3<sup>rd</sup> year

- Medical Expertise
- Communication
- Critical thinking
- Management
- Scholar
- Professionalism
- Evidence based practice providing holistic care
- Empathetic
- Providing Community service

### Class Co-ordinators Third Year BDS 22-2023

Coordinator Name	Department	Extension
Prof. Dr. Yousaf Athar Professor	Periodontology	

Prof. Dr. Faiqa Yasser Professor	Oral Pathology	
Dr. Muhammad Shairaz Sadiq Associate Professor	Oral Medicine	350
Associate Prof. Dr Javed Iqbal Associate professor	GeneralMedicine	0334-5414590
Prof Dr. Imran Daula Professor	General Surgery	

### **Representative**

Name	Designation
Ali Rohan	CR 1 <sup>st</sup> Year BDS
Lyba Ilyas	GR 1 <sup>st</sup> Year BDS
Saad Shafi	CR 2 <sup>nd</sup> Year BDS
Maha Rasheed	GR 2 <sup>nd</sup> Year BDS
M. Aman Masood	CR 3 <sup>rd</sup> Year BDS
Janeeta Urooj	GR 3 <sup>rd</sup> Year BDS
Ali Nadeem	CR Final Year BDS
Azka Taimur	GR Final Year BDS

### **Clerkship Subjects**

Following are the core subjects for Final year BDS for which professional examination will be held at the end of the academic year:

- 1. Periodontology
- 2. Oral Pathology
- 3. Oral Medicine
- 4. General Medicine
- 5. General Surgery

### Hours of teaching Medicine 3rd year BDS

### **CMH Lahore Medical College and IOD**

Subject	Lectures /Hours	Clinical teaching Hours	Total Teaching Hours
General Medicine 50		150	200

### **INTRODUCTION TO MEDICINE**

### **Resources**

- 1. Teaching resources
- 2. Infrastructure resources
- 3. Supporting staff

### **Teaching resources**

Sr. #.	Faculty Name	Department as per PM & DC certificate	Qualification
1	Dr Muhammad Siddique	Professor	MBBS, FCPS
2	Dr Rizwana Kitchlew	Professor	MBBS, FCPS, FRCP
3	Dr. Javed Iqbal TI (M)	Associate Professor	MBBS, FCPS
4	Dr. Hala Mansur	Assistant Professor	MBBS, FCPS,MRCP
5	Dr. Saba Saif	Assistant Professor	MBBS, FCPS, FRCP
6	Dr. Abdur Rafey	Senior Registrar	MBBS, FCPS
7	Dr. Sahar Farzand	Senior Registrar	MBBS, FCPS

### Infrastructure resources

Sr. #.	Infrastructure Resources	Quantity
1	Lecture hall	1
2	OPD	3
3	Medical wards	5
5	Class rooms	1
6	Mini Library	1

### Supporting Staff

Sr. No	Name	Designation
1	Muhammad Imran	PA to HOD Medicine
2	Naveed Ishaque Malik	Computer Opearator
3	Shahzad Irshad	Peon

### **TEACHING AND LEARNING STRATEGIES**

Multiple educational methods will be used comprising of self-study, interactive lectures, group discussions, and practical and manual dexterity skill sessions.

#### (i) Methods for achieving cognitive objectives

- Interactive lectures using audio visual aids on power point presentation
- Group discussions in form of large group and small group
- Collaborative learning
- Distant learning/Online learning
- Self-study and reading from learning resources

#### (ii) Methods for achieving psychomotor objectives

- Theoretical information provided in lectures
- Clinical demonstrations provided by teaching faculty on models and patients
- Supervised practice on patients

#### (iii) Methods for achieving affective objectives

- Interaction with peers, group members, teachers, support staff etc.
- Group discussions (small and large)
- Oral presentations by students

### **LEARNING METHODOLOGIES**

The following teaching /learning methods are used to promote better understanding:

- Interactive lectures
- online lectures
- Small group discussions
- Practical
- Skill sessions
- Self-directed learning
- Assignments
- Oral presentations by students

#### **Interactive lectures**

In large group, the lecturer introduces a topic which explains the underlying phenomena through questions, pictures, exercise, etc. Students are actively involved in the learning process.

#### Other learning resources

#### **Distant learning/Online lectures**

Online lectures are delivered through CMH online site .Live sessions through audio video are made for the class and recorded lecture material is uploaded on CMH site so that students can read and listen to the lectures later on. On the basis of these lectures online assessments are given to students. During online sessions students interact and can ask questions.

#### **Small group discussions**

This format helps students to clarify concepts and acquire skills and attitudes. Students exchange opinions and apply knowledge gained from lectures and self-study. The facilitator role is to ask probing questions, summarize, or rephrase to help clarify concepts.

#### Practical

In practical sessions students observe demonstrations from faculty members on proper instrument use and handling both inside and outside the patients mouth. The students are trained in diagnosing and treating a periodontal disease as per protocols set by the department.

#### Skill session

Students are required to practice suturing techniques on inanimate materials.

#### Self- directed learning

Students take responsibilities of their own learning through individual study, sharing and discussing with peers, seeking information from Learning Resource Center, teachers and resource persons within and outside the college. Students can utilize the time within the college scheduled hours or afterwards for self-study.

#### Assignments

Students are given written formative assignments on designated topics. Revision of the topics already covered by Medicine departments is given to students as oral presentations.

#### Oral presentations by students

Students are assigned topics during revision session to enhance their communication skills and group learning.

### **CURRICULUM IMPLEMENTATION**

Curriculum implementation refers to putting into practice the official document including course content, objectives, learning and teaching strategies. Implementation process helps the learner to achieve knowledge, skills and attitudes required of the learning tasks. Learners are a pertinent component of the implementation process. Implementation occurs when the learner achieves the intended learning experiences, knowledge, ideas, skills and attitudes which are aimed to make the learner an effective part of the society. Curriculum implementation also refers to the stage at which curriculum is put into effect. There has to be an implementing agent as well. Teacher is an important part of this process and implementation occurs when the teacher's formulated course content, teacher's personality and teaching and learning environment interact with the learners. Therefore, curriculum implementation is how the officially planned course of study is translated and reflected by the teacher into schemes of work, lesson plans, syllabus and resources are effectively transferred to the learners. Curriculum implementation can be affected by certain factors such as teachers, learners, learning environment, resource materials and facilities, culture and ideology, instructional supervision and assessments.

Personnel involved in teaching and facilitation

Sr. #.	Faculty Name	Department as per PM & DC certificate	Qualification
1	Dr. Javed Iqbal TI (M)	Associate Professor	MBBS, FCPS
2	Dr. Saba Saif	Assistant Professor	MBBS, FCPS, FRCP
3	Dr. Hala Mansoor	Assistant Professor	MBBS, FCPS, MRCP
4	Dr. Abdur Rafey	Senior Registrar	MBBS, FCPS

#### (i) Lectures delivery by:

#### (iv) Computer assistant: 1 as nominated by the college

Time frame

Course duration: 36 weeks

Lectures: Tuesday (8:50 to 9:40 am), Thursday (8:50 to 9:40 am)

Clinical rotataion: 9 weeks - Monday and Wednesdays (12:00 am to 3:00 pm),

### **COURSE OUTLINE**

#### Outline of Clinical Teaching in the Subject of Medicine

#### 3rd year BDS 2022-23

1 <sup>st</sup> Rotation	History taking and GPE
	<ul> <li>Symptomatology and history taking pertaining to CVS +</li> </ul>
	respiratory system
	<ul> <li>Clinical examination of CVS and respiratory system</li> </ul>
2 <sup>nd</sup> Rotation	<ul> <li>Symptomatology and history taking pertaining to GIT</li> </ul>
	Clinical examination of GIT
	<ul> <li>Nomenclature symptomatology and history taking pertaining</li> </ul>
	to CNS and musculoskeletal system
	<ul> <li>Clinical examination of CNS and musculoskeletal system</li> </ul>
3 <sup>rd</sup> Rotation	Revision of clinical methods
	<ul> <li>Case discussion of common clinical conditions</li> </ul>
4 <sup>th</sup> Rotation	Revision of clinical methods
	Case discussion of common clinical conditions

### **Course Objective**

### At the end of the year students will be able to know:

Sr. #	Торіс				
Cardiovascu	Cardiovascular system				
1.	Acute chest pain differential diagnosis and management principles				
2.	Ischemic Heart Disease				
3.	Hypertension				
4.	Rheumatic fever				
5.	Cardiac failure				
Infections					
6.	Enteric fever				
7.	Dengue fever				
8.	Malaria				
9.	HIV/AIDS and other STDS				
10.	Infective endocarditis				
11.	Fungal infections diagnosis and treatment				
Gastrointest	inal system				
12.	Acute hepatitis				
13.	Acid peptic disease				
14.	Chronic hepatitis				
15.	Cirrhosis of liver				
16.	Liver Disease and Dentistry				

17.	Ascites diagnosis and management
Respiratory	system
18.	Pneumonia
19.	Bronchial asthma
20.	Tuberculosis
21.	COPD
Nervous sys	tem
22.	Meningitis and Encephalitis
23.	Cerebrovascular accident
24.	Epilepsy
Blood	
25.	Clotting disorders (Hemophilia, Von-Willibrand)
26.	Bleeding Disorders (ITP,DIC)
27.	Anemia classification, diagnosis and treatment
Nephrology	
28.	Nephrotic syndrome
29.	Acute renal failure and Chronic renal failure
Endocrinolo	ду
30.	Hyperthyroidism and Hypothyroidism. Parathyroid disorders
31.	Diabetes mellitus
Bones and M	<b>Auscles</b>
32.	Osteoporosis

#### Learning resources

### Department of Medicine CMH Lahore Medical College Lecture Schedule in Medicine for 3<sup>rd</sup> Year BDS 2023

#### <u>Block-I</u>

#### Days/ Timings: Tuesdays : (08:00-09:00)

Sr.	Date	Торіс	Instructor		
1	10-01-2023	Acute chest pain differential diagnosis and management principles	Dr. Saba Saif		
2	17-01-2023	Ischemic Heart Disease	Dr. Hala Mansur		
3	24-01-2023	Rheumatic fever	Dr. Saba Saif		
4	31-01-2023	Infective endocarditis	Brig. Javed Iqbal (R)		
5	07-02-2023	Cardiac Failure	Brig. Javed Iqbal (R)		
6	14-02-2023	Valvular heart disease	Brig. Javed Iqbal (R)		
7	21-02-2023	Hematological malignancies	Dr. Hala Mansur		
		lymphomas			
	Sports Week 27 Feb to 02 March 2023				
8	28-02-2023	Leukemia (AML, ALL, CML, CLL)	Dr. Saba Saif		

		Sports Day	07 March 2023	3	
9	14-03-2023	Bleeding disorders willebrand disease)	(Hemophilia and	von	Prof. Rizwana Kltchlew
		Spring Vacations	20 March to 26 Marc	h 2023	3
10	28-03-2023	Acute kidney injury / Chr	ronic Kidney disease		Brig. Javed Iqbal (R)
		Block-I Exam	31 March to 09 April 2	2023	
		Medicine Paper	03 April 2023 (Mo	nday)	

#### Block-II

### <u> Days/Tuesdays : (08:00-09:00)</u>

<u>Thursdays (09:00-10:00)</u>

Sr. #	Date	Торіс	Instructor			
1	11-04-2023	Pneumonia	Col. Faisal Mehmood			
2	13-04-2023	Pulmonary tuberculosis	Dr. Saba Saif			
3	18-04-2023	Bronchial asthma	Brig. Javed Iqbal			
4	20-04-2023	COPD/Respiratory failure	Prof. Rizwana Kitchlew			
	Eid ul Fitar 21 April to 25 April 2023					
5	27-04-2023	Headache differential diagnosis	Col. Faisal Mehmood			
	Labour Day 01 May 2023					
6	02-05-2023	Meningitis	Prof. Muhammad Siddique			
7	04-05-2023	Encephalitis	Brig. Javed Iqbal (R)			

8	09-05-2023	CVA	Col. M. Ali Yousaf		
9	11-05-2023	Epilepsy/status epilepticus	Prof. Rizwana Kitchlew		
10	16-05-2023	History & examination of common GI symptoms	Dr. Hala Mansoor		
12	18-05-2023	Dysphagia/Achalasia	Dr. Hala Mansoor		
13	23-05-2023	Acid Peptic disease	Prof. Muhammad Siddique		
14	25-05-2023	Upper GI Bleed differential diagnosis	Brig. Javed Iqbal (R)		
15	30-05-2023	Acute Hepatitis	Lt. Col. Aamir Habib		
16	01-06-2023	Chronic Hepatitis	Prof. Muhammad Siddique		
17	06-06-2023	Cirrhosis & common complication	Dr. Hala Mansoor		
18	08-06-2023	Lower GI Bleed differential diagnosis	Dr. Hala Mansoor		
19	13-06-2023	Diarrhea differential diagnosis	Dr. Hala Mansoor		
20	15-06-2023	CVA	Brig. Javed Iqbal (R)		
21	20-06-2023	Anemia Classification /Megaloblastic anemia	Brig. Javed Iqbal (R)		
22	22-06-2023	Anemia differential diagnosis Iron deficiency	Brig. Javed Iqbal (R)		
23	27-06-2023	Fluid and electrolyte balance/UTI common causes	Brig. Javed Iqbal (R)		
		Eid ul Adha 29 June to 30 June 20	23		
24	04-07-2023	ITP DIC (clotting disorders)	Brig. Javed Iqbal (R)		
25	06-07-2022	Revision	Brig. Javed Iqbal (R)		
26	11-07-2023	Revision	Brig. Javed Iqbal (R)		
27	13-07-2023	Revision	Brig. Javed Iqbal (R)		
	· 	Summer Vacations 17 July to 13 Augus	t 2023		
	Block –II Exam 15 Aug to 21 Aug				

#### <u>Block-III</u>

### Days/Wednesday : (09:00-10:00)

#### Lecture Hall-I

Sr	Date	Торіс		Instructor	
1	12-07-2023	Diabetes Mellitus Typel& I complications	I / Diabetes Mellitus	Brig. Javed Iqbal (R)	
2	19-07-2023	Parathyroid & Osteoporosis		Brig. Javed Iqbal (R)	
	Su	mmer Vacations	24 July to 18 August 2	.023	
		Block-II Exam	23 Aug to 28 Aug 2023	3	
		General Medicine	24 August 2023		
3	30-08-2023	Addison/Cushing/Conn syndro	ome	Prof. Rizwana Kitchlew	
4	06-09-2023	SLE	Dr. Saba Saif		
5	13-09-2023	RA & Osteoarthritis	Dr. Saba Saif		
6	22-09-2023	Metabolic syndrome + Gout	Brig. Javed Iqbal (R)		
7	27-09-2023	Enteric Fever/Brucelosis/	Brig. Javed Iqbal (R)		
Eid Milad Un Nabi (Tentatively) 28 Sep 2023					
8	04-10-2023	Malaria /Dengue		Brig. Javed Iqbal (R)	
9	11-10-2023	HIV + common viral infections	Brig. Javed Iqbal (R)		
10	18-10-2023	Revision	Brig. Javed Iqbal (R)		
Pre-Annual Exam 19 Oct to 01 Nov 2023					
		General Medicine	26 Oct 2023		
		Practical /OSPE/VIVA	27 Oct to 03 Nov		
		General Medicine Group	o-B 27 Oct 2023		

#### General Medicine Group-A 30 Oct 2023

#### **Clinical Teaching Schedule**

#### 3rd Year BDS Institute of Dentistry 2022-2023

#### Morning Clinical Teaching Schedule (Amended)

#### (Mondays, Wednesdays)

Timings: (10:00am to 03:00pm)

The assigned students will be divided into two batches

Batch 1	Dr. Javed Iqbal	(Mondays, Wednesdays) (10:00am to 12:30pm)
Batch 2	Dr Abdur Rafey	(Mondays, Wednesdays) (12:30pm to 03:00pm)

Brig. Dr Javed IqbalAssociate Prof.Course director MedicineCMH Lahore Medical College.

### **GENERAL MEDICINE**

TOPIC/	LEARNING OUTCOMES	LEARNING OBJECTIVES	INSTRUCTIONAL	ASSESSMENT
THEME	By the end of a unit,	This course enables the	STRATEGIES	TOOLS
	candidates will be able	student to:		
	to:			
CARDIOVASCULAR SYSTEM	<ul> <li>to:</li> <li>Recognize important cardiovascular conditions</li> <li>Manage acute chest pain and Vasovagal syncope</li> </ul>	<ul> <li>List differential diagnosis of acute chest pain and its principles of management.</li> <li>List spectrum of ischemic heart disease and its management.</li> <li>Describe the etiology, diagnosis and guidelines of management of hypertension.</li> <li>Discuss the etiology, diagnosis and treatment of rheumatic fever/RHD</li> <li>Describe the pathophysiology, etiology, investigations and management of cardiac failure.</li> <li>Describe the infectious agents of infective endocarditis and its</li> </ul>	Interactive lectures, Small group discussions	MCQs, SAQs
		diagnosis, investigations and management		
INFECTIONS	Manage the common infections	<ul> <li>Diagnose and treat the common infective causes of fever like enteric fever, dengue fever and malaria.</li> <li>Diagnose common viral infections like influenza, COVID 19</li> <li>Identify the infections like HIV/AIDS and other STDs, and important fungal infections like candidiasis</li> </ul>	Interactive lectures, Small group discussions	MCQs, SAQs
AL SYSTEM	important GI and	• Recognize and approach to common GI symptoms	lectures, Small	IVICUS, SAUS

	hepatobiliary	like diarrhea, vomiting, group
	Conditions     Manage common	pain
	GI and	Describe the
	hepatobiliary	pathophysiology of the
	presentations	its appropriate
		investigations and
		management.
		Approach to the patient     with upper CL blooding
		<ul> <li>Describe the etiology,</li> </ul>
		clinical features,
		investigations and
		management of acute benatitis chronic
		hepatitis and cirrhosis of
		liver with special
		emphasis on clinical
		diseases in dentistry.
RESPIRATORY	Recognize	Explain the risk factors of Interactive MCQs, SAQs
SYSTEM	important	pneumonia, its lectures, Small
	conditions	investigations and discussions
	Manage common	appropriate treatment.
	respiratory	Describe the etiology,
	presentations	of management of
		chronic bronchial asthma
		and acute severe asthma
		• Describe the etiology, diagnosis and treatment
		pulmonary tuberculosis
		Describe the
$\circ$		patnopnysiology, etiology, investigations
		and management of
		chronic obstructive
NFRVOUS SYSTEM	Diagnose and manage	purmonary disease.     Approach to the patient Interactive MCOs SAOs
	the common	with headache lectures, Small
	neurological	Describe the etiology, group
	conditions.	diagnosis and guidelines discussions
		meningitis and
		encephalitis.

HAEMATOLOGY	Manage common bleeding disorders	<ul> <li>Describe the etiology, diagnosis and management of cerebrovascular accident</li> <li>Describe the classification, etiology, investigations and management of epilepsy.</li> <li>Identify and discuss the common clotting disorders like hemophilia and Von-Willibrand disease.</li> <li>Identify and discuss the diseases.</li> <li>Identify and discuss the diseases.</li> <li>Identify and discuss the diseases like immune thrombocytopenic pupura and disseminated intravascular coagulation</li> <li>Describe the classification of anemia and its diagnosis, investigations and management</li> <li>Approach to anticoagulant therapy</li> <li>Identify common</li> </ul>
NEPHROLOGY	<ul> <li>Approach the patient with kidney diseases</li> <li>Manage fluid and electrolyte imbalances</li> <li>Manage common UTIs</li> </ul>	<ul> <li>malignancies</li> <li>Describe the classification, etiology, investigations and management of acute kidney injury and chronic kidney disease.</li> <li>Identify and manage fluid and electrolyte imbalances</li> <li>Discuss etiology , management of common urinary tract infection</li> </ul>
ENDOCRINOLOGY	<ul> <li>Diagnose common endocrine disorders</li> <li>Manage diabetic emergencies</li> </ul>	Describe the etiology, clinical features, investigations and treatment of hypothyroidism, hyperthyroid disorders     discussions     discussions     discussions     discussions

		•	Describethepathophysiology,classification of diabetesmellitusandappropriateinvestigationsandmanagement.Managediabeticemergencies		
MUSCLOSKELETAL SYSTEM	Identify common rheumatological disorders	•	Describe the etiology, diagnosis and management of systemic lupus erythematosus Describe the etiology, investigations and management of rheumatoid arthritis. Describe the etiology, diagnosis and guidelines of management of osteoporosis and osteoarthritis	Interactive lectures, Small group discussions	MCQs, SAQs

### TOPICAL DETAILS OF CLINICAL SKILLS TO BE LEARNED AT THE BEDSIDE

Learning Objective:	Psychomotor Objectives:	Teaching Methodology	Assessment tool
Art Of History Taking Formal Structure of Medical History Symptoms Pertaining to: • Abdomen • Respiratory System • Neurology • Cardiology Normal and Abnormal Signs in • Abdomen • Respiratory System • Neurology • Cardiology	<ul> <li>Examination Technique of:</li> <li>Abdomen</li> <li>Respiratory System</li> <li>Neurology</li> <li>Cardiology</li> </ul>	Bed Side Teaching/ Skills Lab	OSCE

#### Recommended books

- 1. Davidson's Principles and Practice of Medicine
- 2. Kumar and Clarks Clinical Medicine
- 3. Clinical methods (Macleod or Hutchinsons)

# FORMATIVE AND SUMMATIVE ASSESSMENT METHODS AND POLICIES

### **Internal Assessment**

- a. Weightage of internal assessment shall be 20 %, each for theory and practical, in BDS Professional Examination.
- b. The Internal Assessment shall comprise of monthly test / PBL / assignments / Clinical tests / clinical vivas etc
- c. The Internal Assessment record shall be kept in the respective department of the College / Institute and after approval of Principal, a summary as per University registration number shall be furnished to the Controller of Examinations, at least two weeks before the commencement of final examination.
- d. The result of all the class tests / tools which contribute towards IA will be displayed to the students during an academic year.
- e. The same internal assessment shall be counted both for annual and supplementary examinations. The students who are relegated, however, can improve the internal assessment during subsequent year
- f. Internal assessment tools of any subject may be changed after the approval of respective FBS

#### 3<sup>rd</sup> PROFESSIONAL BDS EXAMINATION TOS - 2023 <u>GENERAL MEDICINE</u>

Theory Marks of theory paper = 80 Time Allowed = 03 hrs Internal assessment (20%) = 20 **Total Marks** (MCQs:40%+SEQs:40%+IA:20%) = 100 Pass Marks = 50

Paper-1: (\*Marks of MCQ component shall be rationalized to 40% weightage)60 x MCQs (1 mark each)(60 Marks)Time =60 minPaper-2: 8x SEQs/SAQs (05 Marks Each)(40 Marks)Time = 120 min

\*If a candidate obtains 50 marks is MCQs it will be rationalized as: (50/60\*40=33.33)

S. No	TOPIC/THEME	Sub topics	Number	r. of MCQs (60)	No. of
				Application:30	(5 Marks each) (40 Marks)
1	Cardiovascular System	Acute chest pain and its management	2	01	
		Ischemic heart disease and its management	01	01	
		Hypertension	01	01	01
		Rheumatic fever/RHD	01	-	
		Cardiac failure	-	01	
		Infective endocarditis	01	01	
2	Infections	Common infective causes of fever	01	01	
		Common viral infections	01	01	01
		HIV/AIDS and other STDs	01	01	
		Important fungal infections	-	01	
3	Gastrointestin	Common GI symptoms	-	01	
	al System	Acid peptic disease	01	01	
	$\sim$	Upper GI bleeding	01	01	01
		Acute hepatitis, chronic hepatitis and cirrhosis of liver	01	01	
4	Respiratory	Pneumonia	01	01	
	System	Chronic bronchial asthma, acute severe asthma	01	01	01
		Pulmonary tuberculosis Chronic obstructive pulmonary disease	02	01	01
	Haematology	Common clotting disorders	01	-	01

Total			60 (60 Marks)		08 (40 Marks)
		Osteoporosis and osteoarthritis	01	-	
	System	Rheumatoid arthritis.	01	01	
9	Muscloskeletal	Systemic lupus erythematosus	01	-	
		Urinary tract infection	-	01	01
		Fluid and electrolyte imbalances	02	01	
0	ινεμποιοεγ	kidney disease.		10	
Q	Nenhrology	Acute kidney injury and chronic	01	01	
			01	01	
		Cerebrovascular accident	01		UI
	System	Meningitis and Encenhalitis	01	01	01
7	Nervous	Approach to the patient with	01	01	
		Diabetic emergencies	-	01	
		Diabetes mellitus	01		
		Parathyroid disorders	01	01	01
		Hyperthyroidism	-	01	
6	Endocrinology	Hypothyroidism	-	01	
		Common haematological malignancies	01	01	
		Anticoagulant therapy	01	-	
		Anemia	01	01	
		pupura and disseminated intravascular coagulation			
5		Immune thrombocytopenic	-	01	

### Table of Specifications for Annual Exam: Practical

40	/IVA Practical marks 40 marks			Total	
Examiner 1 Examiner 2		Long case	Short case I Short Case II		
20 Marks	20 Marks	20 Marks	10 Marks	10 Marks	80 Marks

### **Annual Examination**

- a. The weightage of Annual Examination shall be 80%, each for theory and practical, in BDS.
- b. The examination comprises of a theory paper and practical/clinical examinations as per PM&DC regulations and the Table of Specifications(TOS) of the University.
- c. The gap between two consecutive theory papers shall not be more than two days.
- d. The Theory Paper shall be of 3-hours duration, held under the arrangements of the university. It shall have two parts; MCQs (50%) and SAQs/SEQs (50%) for the year 2023. It may be changed after the approval of Academic Council.
- e. Allocated time for MCQs for 2023 shall be as under:

25 MCQs	-	30 Minutes
30 MCQs	-	40 Minutes
40 MCQs	-	50 Minutes
45 MCQs	-	60 Minutes

f. Each MCQs shall have four distracters

#### **Internal Examiner**

He/she shall be Professor and Head of Department who has been involved in teaching of the class being examined for at least six months and has delivered 50% of the total lectures. Second preference shall be Associate/Assistant Professor who is involved in teaching of the class and posted there for one year. Third preference shall be a recognized Professor of the subject.

### **External Examiner**

He/she shall be a Professor/Associate Professor of a recognized Medical/Dental College or at least an Assistant Professor with three years teaching experience in the relevant subject.

### **Conflict of Interest**

No person shall serve as an examiner whose close relative (wife, husband, son, daughter, adopted son, adopted daughter, grand-son, grand-daughter, brother, sister, niece /nephew, son and daughter- in-law brother and sister- in-law, parental and maternal uncle and aunt etc) is appearing in the examination. All examiners likely to serve as an examiner shall render a certificate in compliance to this para.

### Paper Setting

- a. Each College / Institute shall forward a set of two question papers as per TOS along with the key for each subject to the Controller of Examinations, at least three months in advance of the annual examination. The question paper as a whole / a question without a comprehensive key shall not be considered towards final paper setting.
- b. The set of question papers shall be prepared by the respective Head of Department (HoD) and furnished to Controller of Examinations through Head of Institution (HoI)
- **C.** The Controller of Examinations shall approve the faculty for the final paper setting having fair representation of each college / institute.

#### Paper Assessment

- a. The Controller of Examinations shall approve the faculty for the theory paper marking, to be undertaken in the manner as deemed appropriate.
- b. The Examination Directorate shall coordinate directly with the faculty, earmarked for the paper marking
- c. A student who scores 85% and above marks in any subject shall qualify for distinction in that particular subject.
- d. A fraction in aggregate marks of a subject shall be rounded off to whole number. If it is less than 0.5 then it will be rounded off to the previous whole number while 0.5 or more will be rounded off to the next whole number.

### **Practical / Clinical Examinations**

- a. The Controller of Examiners shall approve the faculty to serve as the internal & external examiners.
- b. The number of external and internal examiners shall be equal.
- c. One external & internal examiner each shall be marked for a group of 100 students.
- d. Candidates may be divided into groups in the clinical and practical examinations and be standardized by incorporating clinical exam
- e. Practical/clinical examination shall be held after the theory examination of the subject but in special cases, it may be held before the theory examination with the approval of the Controller of Examinations. For the purpose of practical/clinical examination, the candidates may be divided into sub groups by the examiners.
- f. The assessment of the practical / clinical examination duly signed by internal & external examiner shall be furnished to the Controller of Examinations within one week of the conclusion of examination

### Pass Marks

- a. Pass marks for all subjects less Islamic / Pakistan Studies, shall be 50 % in theory and practical, separately.
- b. Pass marks for Islamic / Pakistan Studies shall be 33 % which, however shall not be counted towards final scoring of the professional examination.
- c. No grace marks shall be allowed to any student in any examination.

### **Declaration of Result**.

Every effort shall be made to declare the result of each examination within one month of the last practical examination or earlier.

### Promotion.

No student shall be promoted to the higher classes unless he/she passes all the subjects of the previous class

### Re-Totaling.

Any student may apply to the Controller of Examinations on a prescribed form along with the specified fee.

### Supplementary Examination.

The interval between a supplementary examination and the previous professional examination shall not be more than two months. There shall be no special supplementary examination.

### Sample MCQ and SEQs

The distribution of SAQs/SEQs as well as MCQ difficulty levels for BDS annual examinations is as under: -

Program	BDS 3 <sup>rd</sup> year
Professional Year	3 <sup>rd</sup> year
Subject	Medicine
Торіс	CVS
Sub Topic	IHD and management
Sub Topic Detail	

Stem/ Question (Attach Image if any)	A 70 years old male diabetic, smoker and hypertensive presents with sudden severe chest pain of 4 hours. He is in considerable distress. ECG shows ST segment depression in V1 to V4 leads. Trop I done and is markedly raised. Next step after Aspirin/clopidogrel loading dose is
a.	Amiodarone
b.	Coronary artery bypass grafting
С.	Heparin
d.	Streptokinase
Key Answer	C

\* Check (1) the appropriate choice

Domain/	Recall		( <u>/)</u> Application	
Cognitive Level				
Difficulty Level	<u>(√)</u> Easy	Moderate		Difficult
,				
Importance	Good to Know	Nice to Know		<u>(∕∕)</u> Must Know

Program	BDS 3 <sup>rd</sup> year
Professional Year	3 <sup>rd</sup> year
Subject	Medicine
Торіс	Infections
Sub Topic	Pneumonia
Sub Topic Detail	Diagnosis and treatment

	1. A 40 years	1. A 40 years old presents with high grade fever of 103F` with chills and				
Stem/ Question Stem/ Ste						
	a What is CURB 65 score (1)					
(Attach Image If any) b. What is most likely cause of pneumonia (1)						
	c. What is lic	ht`s criteria for pleural effu	sion? (2)			
	d. Name 4 a	d. Name 4 antibiotics to treat pneumonia (1)				
	CURB-65	6 Clinical Feature	Points			
	U	Urea > 7 mmol/L	1			
	R	RR ≥ 30	1			
Kov/ Answer	в	SBP ≤ 90 mm Hg OR DBP ≤ 60 mm Hg	1			
Rey Answer	a. 65	Age > 65	1			
(Attach Image if any)	b. Streptoco					
(, alden mage i any)	Pleural fluid	protein ratio LD ratio PF LD (I	J/L)			
	Transudative	< 0.5 < 0.6 < 2/3 L	RL			
	d Levofloxa	cin Moxifloxacin Azithrom	vcin Clarithromv	cin		
	Amoxacilli	n/clavulanic acid, 3 <sup>rd</sup> gen c	ephalosporins (a	ny)		
* Check (1) the appropriate choice						
Recall (  Application						
Domain/ Cognitivo	Reca	I	<u>(√)</u> Applica	ation		
Domain/ Cognitive	Reca	II	<u>(∕)</u> Applica	ation		
Domain/ Cognitive Level	Reca	II	<u>(√)</u> Applica	ation		
Domain/ Cognitive Level	Reca		<u>(√)</u> Applica	ation		
Domain/ Cognitive Level	Reca Easy	II <u>(√)</u> Moderate	<u>(√)</u> Applica	ation Difficult		
Domain/ Cognitive Level Difficulty Level	Reca Easy	II <u>(√)</u> Moderate	<u>(√)</u> Applica	ation Difficult		
Domain/ Cognitive Level Difficulty Level	Reca Easy	II <u>(√)</u> Moderate	<u>(√)</u> Applica	ation Difficult		
Domain/ Cognitive Level Difficulty Level	Reca Easy Good to Know	II <u>(√)</u> Moderate	<u>(√)</u> Applica	ation Difficult Must Know		