

Institute of Dentistry, CMH Lahore Medical College Curriculum and study Guide Third Year BDS deaniod@cmhlahore.edu.pk

Table of contents

1.	Introduction to study guide	1
2.	Mission statement	2
3.	Rationale of curriculum	3
4.	4. Introduction to curricular framework	3
5.	4 years curricular framework	4
6.	Third year curricular map	5
7.	7. Undergraduate competencies	5
8.	Co-Coordinators 3rd year BDS 2022	6
9.	Student representative	
10.	10. Clerkship Subjects	7
11.	Hours of teaching (according to PM &DC regulations)	7
12.	Introduction to Oral Medicine	9
13.	Resources	10
	a. Teaching resources	10
	b. Infrastructure resources	11
14.	Teaching and learning strategies	
15.	Learning methodologies	13
	Course outline	15
17.	Course objectives	14
18.	Learning resources	21
19.	Other learning resources	25
20.	Assessment method	2

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 IOD CMH 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 conducive 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 undertake following 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. By fostering 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.

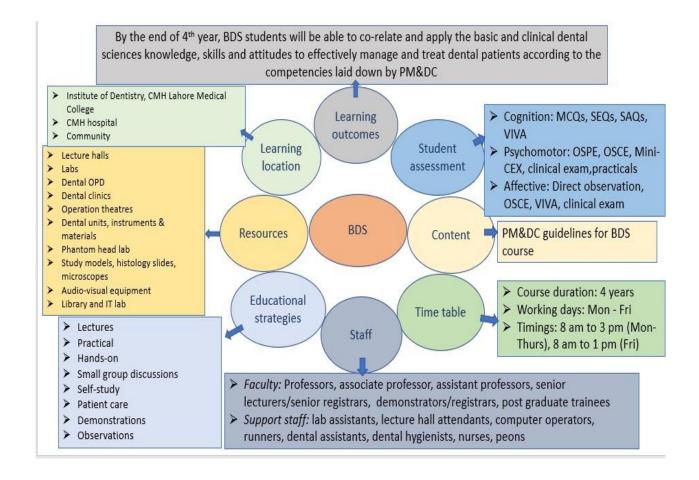
PHASE 2 (Year 3rd & Final Year): includes Periodontology, Oral Pathology, Oral Medicine, General Medicine, General Surgery, Oral Surgery, Prosthodontics, Orthodontics, Operative Dentistry.

4 Years Curricular Framework

BDS SCHEME OF STUDIES

BASIC DENTAL SCIENCES / PRECLINICAL YEAR		<u>CLINICAL YEARS</u>		
1 st YEAR	2 nd Year	3 rd 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	Community Dentistry	Gen. Medicine		
	Pre-Prosthodontics	Gen. Surgery	Orthodontics	
Oral Biology	Pre-Operative Dentistry	Oral Surgery		
	D.1 ' 10'	Prosthodontics		
Behavioral Sciences	Behavioral Sciences	Behavioral Sciences	Behavioral Sciences	
Self-Directed Learning Sessions				

BDS curricular map



BDS Program outcomes

At the end of four years dental undergraduate program, the graduates should be able to:

- 1. Independently assess the patients, order relevant investigations, and formulate a treatment plan.
- 2. Render treatments in the domain of general dental practitioners to their patients in time efficient and quality controlled manner.
- 3. Practice evidence based dentistry.
- 4. Modify dental treatments according to patient's special needs, if any, in the form of medical conditions, physical or mental disabilities etc.
- 5. Assess and refer the patients with case difficulty indices requiring consultation or treatment by specialists.
- 6. Show empathy and respect in their attitude and behavior towards their patients.
- 7. Maintain high ethical and professional standards in their pursuit of clinical excellence.
- 8. Draw upon their existing knowledge and update it through continuing education programs.
- 9. Exercise infection control protocol guidelines laid out by their local health councils.
- 10. Exercise management qualities to maintain single or multiple unit private practices where applicable.
- 11. Work in a team of other health care professionals including dentists, dental assistants, dental hygienists, laboratory technicians, ceramists and dental nurses etc.
- 12. Maintain patient records with emphasis on legal and patient confidentiality aspects.
- 13. Provide basic life support to patients requiring critical care in or outside dental set up.
- 14. Manage dental emergencies in a dental set up.
- 15. Demonstrate clear verbal and written communication skill.

Undergraduate Competencies

IOD CMH Lahore medical College envisions to produce graduates who are proficient in following competencies at the end of $4^{\rm th}$ year

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

Co-Ordinator's Third Year BDS 2021

Coordinator Name	Department	Extension
Dr. Yousaf Athar Assistant Professor	Periodontology	340
Prof. Dr. Faiqua Yaseer Professor	Oral Pathology	
Dr. Muhammad Shairaz Sadiq Associate Professor	Oral Medicine	350
Dr Javed Iqbal Associate professor	General Medicine	
Prof Dr. Imran Hameed Daula Professor	General Surgery	

Class Representation

Name	Designation
	CR 1st Year BDS
	GR 1 st Year BDS
	CR 2 nd Year BDS
	GR 2 nd Year BDS
Muhammad Amman Masood	CR 3 rd Year BDS
Janeeta Urooj	GR 3 rd Year BDS
	CR Final Year BDS
	GR Final Year BDS

Clerkship Subjects

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

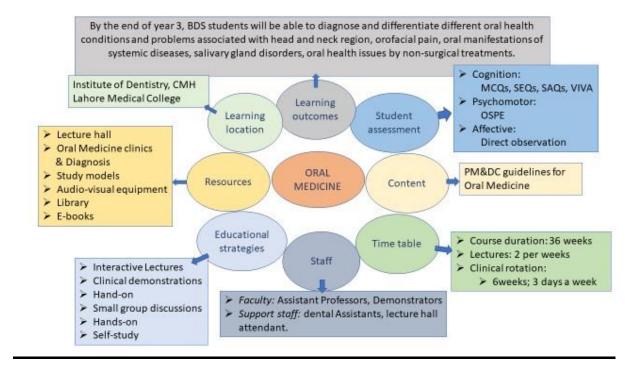
- 1. Periodontology
- 2. Oral Pathology
- 3. Oral Medicine
- 4. General Medicine
- 5. General Surgery

Hours of teaching

Subject	Total Teaching Hours CMH
Periodontology	175
	1/3
Oral Pathology	
Oral Medicine	125
General Medicine	
General Surgery	

INTRODUCTION TO ORAL MEDICINE

Oral medicine is the discipline of dentistry concerned with the oral health. Diagnosis and management of medical conditions that affect the oral and maxillofacial region such as; orofacial pain, oral manifestations of systemic diseases, salivary gland disorders, and the management of medically compromised patients with oral health issues by non-surgical treatments.



Resources

- 1. Teaching Resources
- 2. Infrastructure Resources

Teaching Resources

Sr. #	Faculty Name	Designation as per PM&DC Certificate	Qualification
01	Dr. Muhammad Shairaz Sadiq	Associate Professor	BDS, MCPS
02	Dr. Fareed Ahmad	Associate Professor	BDS, MCPS
03	Dr. Darain Zahra Rizvi	Demonstrator	BDS
04	Dr. Minahil Malik	Demonstrator	BDS
05	Dr. Hunza Zaheer	Demonstrator	BDS
06	Dr. Hania Nasir	Demonstrator	BDS

Infrastructure Resources

Sr. #	Infrastructure Resources	Quantity
01	Oral Medicine & Oral Diagnosis Dental Hall	• 01
	Dental Units	
02	Oral Medicine	• 02
	 Oral Diagnosis 	• 03
03	Dental Stools	
03	Oral Medicine	• 02

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
 - 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
- 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.

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 patient's 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 anatomy and physiology departments are 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 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 of the curriculum is the way the teacher selects and utilizes various components of the curriculum. 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

1. Lectures delivery by:

Dr. Muhammad Shairaz Sadiq

(Associate Professor)

Dr. Fareed Ahmad

(Assistant Professor)

- 2. Demonstrators for practical and small group discussion sessions:
 - Dr. Darain Zahra Rizvi
 - Dr. Minahil Malik
 - Dr. Hunza Zaheer
 - Dr. Hania Nasir
- 3. Support staff: 03 (03 Dental Assistants) as nominated by college

Time frame

Course duration: 36 weeks

Lectures: Block 1, 2 & 3 Friday (9:00 am to 10:00am), Block 3 Thursday (8:00am to 9am) Clinical rotation: 6 weeks-Block 1 & 3; Tuesday, Thursday and Friday (10:00 am to

1:00pm)

Block 2 Monday, Tuesday, Thursday & Friday (10:00 to 1:00 pm)

Normal mucosa assessment and investigations

- Histology
- General health status
- Oral examination (including lips oral mucosa floor of the mouth teeth gingival occlusion salivary glands jaw bones)
- Examination of temporomandibular joint
- Laboratory aids
- Analysis treatment planning and patient management

Soft tissue lesions

- White lesions
- Pigmented lesions
- Ulcerative lesions
- Vesiculo-bulbous lesions
- Pre-malignant lesions clinical features diagnosis and management
- Disorders of the tongue and lips clinical features, diagnosis and treatment planning
- Diseases of salivary glands xerostomia: clinical features, diagnosis and management

Hard tissue lesions

- Diseases of jaw bones; clinical features diagnosis and management
- Diseases of tempro-mandibular joint; clinical features diagnosis and treatment planning
- Disorders of teeth clinical features diagnosis and treatment
- Focal infection; Significance diagnosis and management of effect cases
- Clinical features diagnosis and treatment of pain

Systemic disorders

- Anaemia
- Leukemia
- Bleeding disorders
- Patients on anti-coagulant therapy management

Over View:

A1. History taking	A2. Clinical examination	A3. Investigations	A4. Management
			A4a. prescribing & therapeutics
			A4b. operative interventions
		Υ	

B1. Normal mucosa assessment	B2. Soft tissue lesions	B3. Hard tissue lesions	B4. Systemic disorders	B5. Pain in orofacial region	B6. Medical emergencies
Histology	White lesions	Jaw bone diseases	Anaemia	Facial pain	prevention
General health status	Pigmented lesions	TMJ diseases	Leukaemia and leukopenia	Neuropathic pain	Emergency drugs and equipment
Mucosa of lips, floor of mouth and teeth, gingiva and occlusion.	Ulcerative lesions	Disorders of teeth	Bleeding disorders	Migraine, cluster, tension type headaches	
	Vesiculo bulbous lesions	Focal infections	Nutritional deficiencies	Neurological dysfunction	
	Pre-malignant and malignant lesions		Endocrine disturbances		
	Disorders of tongue and lips		Renal diseases		
	Salivary glands diseases				

Third Professional BDS Examination (2022) Oral Medicine

Marks of theory paper= 40Time Allowed= 1.5 hrsInternal assessment= 10Total marks= 50Pass Marks= 25

Paper-1

 $30 \times MCQs$ (20 Marks) Time = 30 min

Paper-2

04x SEQs (4x5 Marks) (20 Marks) Time = 60 min

C			Number.	of MCQs (30)	No. of SEQs
S. NO	Block	Topics	Recall:12	Application:18	(04) (4x5 Marks)
1		Principles of oral medicine:			
		assessment and investigations of		1	
		patient	1		
2		Oral ulceration			2
3		Diseases of lips and tongue		2	
4	I	Precancerous lesions and conditions	1	1	
5		Oral Carcinoma & Carcinogenesis	1	1	
6		Oral pigmentation & Inflammatory overgrowths	1	1	
7		Vesiculobullous diseases and connective tissue disorders	1	2	
8		Orofacial, Neurologic & Psychogenic	1	2	
		Pain			
9		Facial Paralysis			1
10		Temporomandibular disorders	1	1	
11		Swellings of face and neck			
12	II	Salivary glands diseases and	1	1	
		disturbances of salivary flow.			
13		Oral manifestations of systemic			
		diseases (Blood, GIT, Nutritional,	4	1	
		Renal, Endocrine related) & their	1		
		management.			
14		Immunity and oral reactions to drug			
		therapy	1	1	
15		Disorders of teeth			1
16	111	Disorders of bone			
17	III	Bacterial, Viral, & fungal infections of	1	2	
		gingiva and oral mucosa			
18		Management of medical emergencies	1	2	
		in dentistry	1		
Total		30 (2	20 Marks)	04 (20 Marks)	

Table of specifications for Annual Professional Exam: Practical

Clinical Assessment

Total = 50 **OSPE** = 18 **VIVA** = 18

 $\mathbf{Log\ Book} \qquad \qquad = 04$

Internal Assessment = 10

OSPE (20 Marks)	OSPE (20 Marks)				
	Marks	Time			
Static Stations	5	5×2=10	2 min each station		
Interactive Stations	2	2×4=8	4 min each station		

INTERNAL ASSESSMENT STRUCTUR	E FOR BDS - THEORY
INTERNAL ASSESSMENT WEI	GHTING: 20%
Exams	Weightings
End of Block Exam – I	20%
End of Block Exam – II	20%
End of Block Exam – III	20%
Modular tests	10%
Pre-Annual Exam	30%
Total	100%
INTERNAL ASSESSMENT STRUCTURE	FOR BDS - PRACTICAL
INTERNAL ASSESSMENT WEI	GHTING: 20%
Exams	Weightings
End of Block Practical/ OSPE/ OSCE	20%
End of Block Practical/ OSPE/ OSCE	20%
End of Block Practical/ OSPE/ OSCE	20%
SGD/ CBL/ INTEGRATED SESSION	10%
Pre-Annual Exam	30%
Total	100%

TOPICS AND OBJECTIVES	FACULTY	LEARNIN G DOMAIN (CPA)	LEARNIN G STRATEG Y	ASSESSMENT				
	Oral Medicine			Clinical	Viv a	OSPE	NUM S MCQ s	NUMS SEQs
1. The Oral Mucosa								
Discuss Normal oral Mucosa o Structure Function Age changes	Dr. Muhammad Shairaz Sadiq	С	Interactive lecture/smal l group discussion					
Discuss Abnormal oral mucosa		С	Interactive lecture/smal l group discussion					
Oral mucosa in generalized disease		С	Interactive lecture/smal l group discussion					
Periodontium in generalized disease		С	Interactive lecture/smal l group discussion					
2. Principles of oral m	edicine: assessi patient		estigation of				2(min of 0, max of 2)	2(min of 0, max of 2)
Speciality of oral medicine		С	Interactive lecture					
• Patient assessment o History taking • Examination		СРА	Interactive lecture/ clinic visits					

o Investigations Blood o examination Clinical chemistry Immunological tests o Endocrine function Urinalysis Biopsy o Microbiol ogical investigati ons Imaging techniques Discuss how to form diagnosis	Dr. Muhammad Shairaz Sadiq	C	Interactive lecture/small group discussion Interactive lecture/casebased discussion			
	3. Therapy	y				
Discuss Principles of Therapy	Dr. Muhammad Shairaz	C	Interactive lecture			
 Discuss topical therapy o Covering agents Topical o antiseptics Topical analgesics Topical antibiotics Topical corticosteroids 	Sadiq	C	Interactive lecture/casebased discussion			
Discuss Creams and ointments		C	Interactive lecture/ case based discussion			

O Discuss systemic therapy Systemic corticosteroids Azathioprine Other systemic drugs used in oral medicine		C	Interactive lecture/ Case based discussion			
Discuss Limitations of therapy		C	lecture/ case based discussion			
4. Infections of gingiv	vae and oral mu	1088			2(min of 0, max of 2)	2(min of 0, max of 2)
• o Discuss Bacterial infections Acute necrotizing o o ulcerative o o gingivitis Syphilis Gonorrhea Non- specific urethritis Tuberculosis	Dr. Fareed Ahmad	C	Interactive lecture/ case based discussion			
Discuss Fungal infections Oral candidiosis		С	Interactive lecture/ case based discussion			

00	Discuss Viral infections Herpes simplex virus infections Varicella zoster virus infections Epstein-Barr virus infections Paramyxovirus infections Human papillomavirus infections		C	Interactive lecture/ case based discussion			
	Human immunodeficiency virus and AIDS						
		5. Oral Ulcerat	ion			3(min of 0, max of 3)	2(min of 0, max of 2)
0 0	Discuss Traumatic ulceration Aetiology Clinical features Management	Dr Muhammad Shairaz	С	Interactive lecture/casebased discussion			
0 0	Discuss Recurrent aphthous stomatitis (RAS) Clinical features Aetiology of RAS Histopathology and	Sadiq	С	Interactive lecture/casebased discussion			
o	immunopathogene sis of RAS Systemic conditions and						
0	RAS like lesions Management of RAS						
•	Behcet's disease		С	Interactive lecture			

	6. Diseases of the disturbances	lips and tongu of taste and h				3(min 3 of 0, max of 3)	2(min of 0, max of 2)
•	Discuss diseases of the lips o Swelling of the lips Angular cheilitis (angular stomatitis, o chelosis, perleche) Lip fissures Allergic cheilitis Actinic cheilitis (solar o keratosis) Exfoliative cheilitis Perioral dermatitis Lick eczema Cheilocandidosis		С	Interactive lecture/ case based discussion			
• 0	morphological variations Tongue fissures Coated tongue Hairy tongue Atrophy of the lingual epithelium Traumatic irritation of the tongue Enlargement of the foliate papillae Geographic tongue (erythema migrans, benign migratory glossitis), median rhomboid glossitis	Dr. Fareed Ahmad	C	Interactive lecture/ case based discussion			
• 0	Discuss disturbances of taste and halitosis Disturbances of taste		С	Interactive lecture/ case based discussion			

7. Swellings of the face	e and neck				2(min of 0, max of 2)	2(min of 0, max of 2)
Discuss facial swellings Differential diagnosis	Dr. Muhammad	C	Interactive lecture/casebased discussion			
Discuss Swellings in the neck	Shairaz Sadiq	С	Interactive lecture			
Discuss Cervical lymphadenopathy Differential diagnosis Examination of the lymph nodes Inflammatory causes Neoplastic causes of lymph node enlargement		С	Interactive lecture/ case based discussion			
8. Salivary glands a	nd saliva				2(min of 0, max of 2)	2(min of 0, max of 2)
Discuss saliva and salivary glands o Saliva o Salivary glands		C	Interactive lecture			
 Discuss assessment of the salivary glands Examination o Measurement of the salivary flow	Dr. Fareed Ahmad	CPA	Interactive lecture/clinica l session			

 Discuss salivary gland diseases Sialdenitis o Sialosis o 		С	Interactive lecture/ case based discussion			
Necrotizing sialometaplasia Sarcoidosis HIV-associated						
 HIV-associated salivary gland disaease Salivary gland 						
tumors						
9. Inflammatory overg and pigmentation o					2	3(min of 0, max of3)
 Inflammatory overgrowths Epulides o 	Dr Fareed	CA	Interactive lecture/SGD			
Fibroepithelial polyp O Denture granuloma O Focal epithelial hyperplasia (Heck's disease)	Ahmad					
 Developmental lesions o Hamartomas Developmental white lesions 		CA	Interactive lecture/SGD			
Benign neoplasmsSquamous cell papilloma		CA	Interactive lecture/SGD			
Miscellaneous benign conditions o Traumatic keratoses o Nicotinic stomatitis (pipe smokers' palate)		CA	Interactive lecture/SGD			

•	Leukoedema							
• 00	Pigmentation of the oral mucosa Amalgam tattoos Melanotic pigmentation Oral melanoma		C	Interactive lecture/SGD				
	10. Precand	cerous Lesions	and Conditi	ions			2	3(min
								of 0, max of 3)
•	Precancerous	Dr.	СРА	Interactive				
	lesions	Muhammad	0171	lecture/casebased				
0 0	Leukoplakia	Shairaz		discussion/				
	Erythroleukoplaki	Sadiq		Clinics				
0 0								
	Speckled							
	leukoplakia Candidal							
	leukoplakia							
o	(chronic							
	hyperplastic							
	candidosis)							
	Malignant							
o	transformation of							
	precancerous							
	lesions							
	Management of							
	precancerous lesions							
			CD 4	Indo-				
0	Precancerous conditions Oral		CPA	Interactive lecture/casebased				
0	submucous			discussion/				
	fibrosis (OSF)			Clinics				
	Sidropenic							
	dysplagia							
	Lichen planus							
_	Othor	1	Т		1			<u> </u>
•	Other precancerous							
	conditions							

Oral carcinoma and carcinogenesis Aetiological factors for oral squamous cell carcinoma Clinical features and diagnosis of oral carcinoma Staging systems for oral carcinoma o The management of oral carcinoma		CPA	Interactive lecture/casebased discussion/ Clinics			
 Prevention of oral carcinoma 						
Oral carcinoma as a genetic disease						
11. Mucocutaneous	disease and co	nnective tiss	sue disorders		1	3(min of 0, max of 3)
Mucocutaneous disease		С	Interactive lecture			
Lichen planus and lichenoid reactions	Dr Fareed Ahmad	СРА	Interactive lecture/case based discussions/ clinical session			
 Immunobulbous diseases o Pemphigus o Pemphigoid o Dermatitis herpetiformis Linear IgA disease 		CA	Interactive lecture/casebased discussion			
Epidermolysis bullosa		С	Interactive lecture			
Erythema multiforme		CA	Interactive lecture/SGD			

•	Idiopathic oral blood blisters (Angina bullosa Haemorrhagica)		CA	Interactive lecture/smal l group discussion			
	Connective tissue diseases Lupus erythematosus Morphoea and systemic sclerosis Mixed connective tissue disease		CA	Interactive lecture/smal l group discussion			
	12. (Gastrointestina	l diseases			2(min	1(min
						of 0, max of 2)	of 0, max of 1)
• 0	Coeliac disease (glutensensitive enteropathy) Oral manifestation of celiac disease	Dr Muhammad Shairaz	С	Interactive lecture			
• 0 0 0	Inflammatory bowel disease (IBD) Crohn's disease Oral Crohn's disease Orofacial granulomatosis Ulcerative colitis Stomatosis and inflammatory bowel disease	Sadiq	CA	Interactive lecture/smal l group discussion			
•	Gastro oesophageal reflux disorder (GORD)		CA	Interactive lecture/smal			
				l group discussion			
-	13. Blood and nutri	tion, endocrine disease		s, and renal		2(min of 0, max of 2)	1(min of 0, max of 1)

Disorders of the		С	Interactive					
			lecture					
blood			recture					
o Anaemias o Oral								
signs and								
symtopms in								
anaemia								
 Management of 								
patients with								
anaemias and								
haematinic	D							
deficiencies	Dr Muhammad							
 Leukemia o 	Shairaz							
Leukopenia o								
Myelodysplastic	Sadiq							
syndrome								
o Platelet								
abnormalities								
o The selection of								
patients for								
haematological								
examination								
Disorders of		C	Interactive					
nutrition			lecture/casebased					
o Nutritional			discussion					
deficiencies								
• Scurvy								
Endocrine]	CA	Interactive					
disturbances			lecture/smal l					
 Normal endocrine 			group discussion					
changes								
 Adrenocortical 								
diseases								
 Thyroid disease • 								
Diabetic mellitus								
Renal disease	1	CA	Interactive					
			lecture/smal					
	I	<u> </u>	1	1	1	1	<u> </u>	<u>I</u>
o o Chronic renal			1 group					
failure			discussion					
Renal patients								
• undergoing								
dialysis								
Renal transplant								
patients								
		L						

14. Immunode autoimmunity a		persensitivity, ns to drug				1	1 (min of 0, max of 1)	
Immunodeficienc y	Dr	С	Interactive lecture					
Hypersensitivity	Muhammad Shairaz Sadiq	Muhammad Shairaz	С	Interactive lecture				
Angioedema		CA	Interactive lecture/smal l group discussion					
C1 esterase inhibitor deficiency		С	Interactive lecture					
Autoimmunity		CA	Interactive lecture/smal l group discussion					
• o Oral reactions to o o drug therapy o o Spectrum of adverse reactions Oral reactions o antibiotics Oral reactions to steroids Drug therapy and periodontal tissues Fixed drug eruptions		CA	Interactive lecture/smal l group discussion					
15. Facial Pain and neu	ırological distu	rbances				2	1(min of 0, max of 1)	
 Facial pain: an overview The nerve supply the face The evaluation of facial pain 		С	Interactive lecture/casebased	1				

	7		<u> </u>	1	-	 	
 Neuropathic pain 		С	Interactive				
 Trigeminal 			lecture/casebased				
neuralgia			discussion				
 Glossopharyngeal 	Dr Fareed						
neuralgia	Ahmad						
o Postherpetic							
neuralgia							
Neuropathic pain							
secondary to other							
conditions							
	-	CA	Interactive				
Migraine		CA	lecture/clini cal				
			sessions /small				
			group discussion				
Cluster headaches	Dr Fareed	CA	Interactive				
(periodic	Ahmad	CA	lecture/smal l				
migrainous			group discussion				
neuralgia/			group discussion				
migrainous							
neuralgia)							
 Tension type 		CA	Interactive				
headache			lecture/smal l				
			group discussion				
F . 15 .	-		T				
• Facial Pain:		CA	Interactive				
miscellaneous			lecture/clini cal				
conditions			sessions /small				
o Giant cell arteritis			group discussion				
(temporal							
arteritis/cranial							
arerirtis)							
	1	l	1				
o Auriculotemporal							
syndrome (Frey's							
syndrome)							

 Neurological disturbances Facial nerve deficits Anaesthesia and paraesthesia Bell's palsy o multiple sclerosis o Extrapyramidal syndromes 16. Temporomandibula 	ar disorders		Interactive lecture/clini cal sessions /small group discussion		2	1(min of 0,
						max of 1)
Investigation of the stomatognathic system o History o Examination o Imaging o Arthroscopy		CA	Interactive lecture/smal l group discussion			
Temporomandibul ar pain and dysfunction syndrome (TMPDS) o Management	Dr Fareed Ahmad	С	Interactive lecture			
 Internal derangement Disc displacement with reduction Disc displacement without reduction 		CA	Interactive lecture/smal l group discussion			
Rheumatoid arthritis		CA	Interactive lecture/casebased discussion			

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•	Osteoarthrosis		С	Interactive					
	(osteoarthritis)			lecture/ case-					
				based discussion					
•	Masseteric		С	Interactive					
	Hypertrophy			lecture / case-					
				based discussion					
•	Tumors	-	CPA	Interactive					
	rumors		CIA	lecture/smal l					
				group					
				discussion/c ase-					
				based discussion					
	17. Psychogeni	c orofacial pro	blems					2	1(min
		Ť							of 0,
									max
									of1)
	~1 ·	T							
•	Chronic orofacial		CPA	Interactive					
	pain			lecture/ small					
o				group discussion					
	pain Atypical								
o	odontalgia Oral	Dr Fareed							
	dysaesthesia								
	(Burning mouth	Ahmad							
0	syndrollie)								
	Management of								
	chronic orofacial								
0	pain								
	D: 4 1	-		T					
•	Distancances in		С	Interactive					
	taste and salivation			lecture/casebased					
	sanvation			discussion					
				1	l	l	1	1	l .
			l						
	Dysmorph	ophobia	С	Interactive]
	• Dysmorph	ophobia	C	lecture/casebase	ed				
	Dysmorph	ophobia	С		ed				
	• Dysmorph	ophobia	С	lecture/casebase	ed				

Self-injurious behavior		С	Interactive lecture/casebased discussion			
Eating disorders		С	Interactive lecture/casebased discussion			
Drugs and Alcohol		С	Interactive lecture/casebased discussion			
18. Disorders bone	of teeth and				2	1(min of 0, max of 1)
Disorders of teeth Hypodontia Variation in eruption Variation in size of teeth Non carious tooth surface loss Discoloration of the teeth Disturbances of the structure and enamel and dentine	Dr Muhammad Shairaz Sadiq	C	Interactive lecture/casebased discussion			
Disorders of bone Inherited and development disturbances		С	Interactive lecture/smal l group discussion			
o Metabolic and endocrine disturbances o Disorders of unknown aetiology paget's disease						
19. Medical emergencie	s in dentistry				2	1

The prevention of medical emergencies	Dr Fareed	CA	Interactive lecture/smal l group discussion /role plays			
Administration of drugs o Routes of administration of drugs	Ahmad	CA	Interactive lecture/smal l group discussion/ role plays			
Emergency drugs and equipment		CA	Interactive lecture/smal l group discussion/ role plays			
Management of emergencies		CAP	Interactive lecture/smal l group discussion/ role plays			

Learning resources

<u>Topic</u>	Resources
The Oral Mucosa	Tyldesley's Oral Medicine, 5th Edition, by Anne
	Field & Lesley Longman.
	Oral and Maxillofacial Medicine, the Basis of
	Diagnosis and Treatment, 3 rd Edition, by
	Crispian Scully.
	Medical Problems in Dentistry, 6th Edition, by
	Crispian Scully.
	A Clinical guide to Oral Medicine by P J Lamely
	& M A O Lewis.
Principles of oral medicine: assessment and	Tyldesley's Oral Medicine, 5th Edition, by Anne
investigation of patients	Field & Lesley Longman.
	Oral and Maxillofacial Medicine, the Basis of
	Diagnosis and Treatment, 3 rd Edition, by
	Crispian Scully.
	Medical Problems in Dentistry, 6th Edition, by
	Crispian Scully.
	A Clinical guide to Oral Medicine by P J Lamely
	& M A O Lewis.

Therapy	Tyldesley's Oral Medicine, 5th Edition, by Anne Field & Lesley Longman. Oral and Maxillofacial Medicine, the Basis of Diagnosis and Treatment, 3 rd Edition, by
	Crispian Scully.
	Medical Problems in Dentistry, 6th Edition, by
	Crispian Scully.
	A Clinical guide to Oral Medicine by P J Lamely
	& M A O Lewis.
Infections of gingivae and oral mucosa	Tyldesley's Oral Medicine, 5th Edition, by Anne
	Field & Lesley Longman.
	Oral and Maxillofacial Medicine, the Basis of
	Diagnosis and Treatment, 3 rd Edition, by
	Crispian Scully.
	Medical Problems in Dentistry, 6th Edition, by
	Crispian Scully.
	A Clinical guide to Oral Medicine by P J Lamely
	& M A O Lewis.

Oral Ulceration	Tyldesley's Oral Medicine, 5th Edition, by Anne Field & Lesley Longman. Oral and Maxillofacial Medicine, the Basis of Diagnosis and Treatment, 3 rd Edition, by Crispian Scully. Medical Problems in Dentistry, 6th Edition, by Crispian Scully. A Clinical guide to Oral Medicine by P J Lamely & M A O Lewis.
Diseases of the lips and tongue and disturbances of taste and halitosis	Tyldesley's Oral Medicine, 5th Edition, by Anne Field & Lesley Longman. Oral and Maxillofacial Medicine, the Basis of Diagnosis and Treatment, 3 rd Edition, by Crispian Scully. Medical Problems in Dentistry, 6th Edition, by Crispian Scully. A Clinical guide to Oral Medicine by P J Lamely & M A O Lewis.
Swellings of the face and neck	Tyldesley's Oral Medicine, 5th Edition, by Anne Field & Lesley Longman.
	Oral and Maxillofacial Medicine, the Basis of Diagnosis and Treatment, 3 rd Edition, by Crispian Scully. Medical Problems in Dentistry, 6th Edition, by Crispian Scully. A Clinical guide to Oral Medicine by P J Lamely & M A O Lewis.
Salivary glands and saliva	Tyldesley's Oral Medicine, 5th Edition, by Anne Field & Lesley Longman. Oral and Maxillofacial Medicine, the Basis of Diagnosis and Treatment, 3 rd Edition, by Crispian Scully. Medical Problems in Dentistry, 6th Edition, by Crispian Scully. A Clinical guide to Oral Medicine by P J Lamely & M A O Lewis.

benign lesions, and pigmentation of the oral		
	Field & Lesley Longman.	
mucosa	Oral and Maxillofacial Medicine, the Basis of	
	Diagnosis and Treatment, 3 rd Edition, by	
	Crispian Scully.	
	Medical Problems in Dentistry, 6th Edition, by	
	Crispian Scully.	
	A Clinical guide to Oral Medicine by P J Lamely	
	& M A O Lewis.	
Precancerous lesions and conditions. Oral	Tyldesley's Oral Medicine, 5th Edition, by Anne	
carcinoma and carcinogenesis	Field & Lesley Longman.	
	Oral and Maxillofacial Medicine, the Basis of	
	Diagnosis and Treatment, 3 rd Edition, by	
	Crispian Scully.	
	Medical Problems in Dentistry, 6th Edition, by	
	Crispian Scully.	
	A Clinical guide to Oral Medicine by P J Lamely	
	& M A O Lewis.	
Mucocutaneous disease and connective tissue	Tyldesley's Oral Medicine, 5th Edition, by Anne	
disorders	Field & Lesley Longman.	
	Oral and Maxillofacial Medicine, the Basis of	
	Diagnosis and Treatment, 3 rd Edition, by	
	Crispian Scully.	

	Medical Problems in Dentistry, 6th Edition, by Crispian Scully. A Clinical guide to Oral Medicine by P J Lamely & M A O Lewis.
Gastrointestinal diseases	Tyldesley's Oral Medicine, 5th Edition, by Anne Field & Lesley Longman. Oral and Maxillofacial Medicine, the Basis of Diagnosis and Treatment, 3 rd Edition, by Crispian Scully. Medical Problems in Dentistry, 6th Edition, by Crispian Scully. A Clinical guide to Oral Medicine by P J Lamely & M A O Lewis.

Blood and nutrition, endocrine disturbances, and renal disease	Tyldesley's Oral Medicine, 5th Edition, by Anne Field & Lesley Longman. Oral and Maxillofacial Medicine, the Basis of Diagnosis and Treatment, 3 rd Edition, by Crispian Scully. Medical Problems in Dentistry, 6th Edition, by Crispian Scully. A Clinical guide to Oral Medicine by P J Lamely & M A O Lewis.
Immunodeficiency, hypersensitivity, autoimmunity and oral reactions to drug therapy	Tyldesley's Oral Medicine, 5th Edition, by Anne Field & Lesley Longman. Oral and Maxillofacial Medicine, the Basis of Diagnosis and Treatment, 3 rd Edition, by Crispian Scully. Medical Problems in Dentistry, 6th Edition, by Crispian Scully. A Clinical guide to Oral Medicine by P J Lamely & M A O Lewis.
Facial Pain and neurological disturbances	Tyldesley's Oral Medicine, 5th Edition, by Anne Field & Lesley Longman. Oral and Maxillofacial Medicine, the Basis of Diagnosis and Treatment, 3 rd Edition, by Crispian Scully. Medical Problems in Dentistry, 6th Edition, by Crispian Scully. A Clinical guide to Oral Medicine by P J Lamely & M A O Lewis.
Temporomandibular disorders	Tyldesley's Oral Medicine, 5th Edition, by Anne Field & Lesley Longman. Oral and Maxillofacial Medicine, the Basis of Diagnosis and Treatment, 3 rd Edition, by Crispian Scully. Medical Problems in Dentistry, 6th Edition, by Crispian Scully. A Clinical guide to Oral Medicine by P J Lamely & M A O Lewis.

Psychogenic orofacial problems	Tyldesley's Oral Medicine, 5th Edition, by Anne Field & Lesley Longman. Oral and Maxillofacial Medicine, the Basis of Diagnosis and Treatment, 3 rd Edition, by Crispian Scully. Medical Problems in Dentistry, 6th Edition, by Crispian Scully. A Clinical guide to Oral Medicine by P J Lamely & M A O Lewis.
Disorders of teeth and bone	Tyldesley's Oral Medicine, 5th Edition, by Anne Field & Lesley Longman. Oral and Maxillofacial Medicine, the Basis of Diagnosis and Treatment, 3 rd Edition, by Crispian Scully. Medical Problems in Dentistry, 6th Edition, by Crispian Scully. A Clinical guide to Oral Medicine by P J Lamely & M A O Lewis.
Medical emergencies in dentistry	Tyldesley's Oral Medicine, 5th Edition, by Anne Field & Lesley Longman. Contemporary Oral and Maxillofacial surgery 6th Edition by James R. Hupp, Edward Ellis III, Myron R. Tucker

OTHER LEARNING RESOURCES

Clinics / Practical	Students will be involved in clinical work in the clinics of Oral Medicine and diagnosis
<u>Videos</u>	Videos to familiarize the students with the procedures and protocols to assess patients.
Computer Lab/CSs/DVDs/ Internet Resources:	To increase the knowledge, students should utilize the available internet resources and CDs/ DVDs. This will be an additional advantage to increase learning.
Self-Learning	Self-Learning is scheduled to search for information to solve cases, read through different resources and discuss among the peers and with the faculty to clarify the concepts.

ASSESSMENT METHODS:

Internal Assessment (IA)

- a. Weightage of internal assessment shall be 10 %, 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

Annual Examination

- a. The weightage of Annual Examination shall be 90%, 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 2-hours duration, held under the arrangements of the university. It shall have two parts; MCQs (30%) and SAQs/SEQs (70 %) for the year 2018. It may be changed after the approval of Academic Council. e. Allocated time for MCQs for 2021-22 shall be as under:

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

- f. Each MCQs shall have four distractors
- g. The distribution of SAQs/SEQs as well as MCQ difficulty levels for BDS annual examinations is as under: -

Third Professional BDS Examination (2022) Oral Medicine

Marks of theory paper = 40
Time Allowed = 1.5 hrs
Internal assessment = 10
Total marks = 50
Pass Marks = 25

Paper-1

 $30 \times MCQs$ (20 Marks) Time = 30 min

Paper-2

04x SEQs (4x5 Marks) (20 Marks) Time = 60 min

S	s l		Number. of MCQs (30)		No. of SEQs
S. NO	Block	Topics	Recall:12	Application:18	(04) (4x5 Marks)
1		Principles of oral medicine: assessment and investigations of patient	1	1	
2		Oral ulceration	_		2
3		Diseases of lips and tongue		2	
4	I	Precancerous lesions and conditions	1	1	
5		Oral Carcinoma & Carcinogenesis	1	1	
6		Oral pigmentation & Inflammatory overgrowths	1	1	
7			1	2	
8		Orofacial, Neurologic & Psychogenic Pain	1	2	
9		Facial Paralysis			1
10		Temporomandibular disorders	1	1	
11		Swellings of face and neck			
12	II	Salivary glands diseases and disturbances of salivary flow.	1	1	
13		Oral manifestations of systemic diseases (Blood, GIT, Nutritional, Renal, Endocrine related) & their management.	1	1	
14		Immunity and oral reactions to drug therapy	1	1	
15		Disorders of teeth			1
16	III	Disorders of bone			
17	111	Bacterial, Viral, & fungal infections of gingiva and oral mucosa	1	2	
18		Management of medical emergencies in dentistry	1	2	
	Total		` '		04 (20 Marks)

Table of specifications for Annual Professional Exam: Practical

Clinical Assessment

Static Stations

Interactive Stations

Total = 50 **OSPE** = 18 **VIVA** = 18

 $\mathbf{Log\ Book} \qquad \qquad = 04$

Internal Assessment = 10

INTERNAL ASSESSMENT STRUCTUR	RE FOR BDS - THEORY
INTERNAL ASSESSMENT WE	IGHTING: 20%
Exams	Weightings
End of Block Exam – I	20%
End of Block Exam – II	20%
End of Block Exam – III	20%
Modular tests	10%
Pre-Annual Exam	30%
Total	100%
INTERNAL ASSESSMENT STRUCTURE	C FOR BDS - PRACTICAL
INTERNAL ASSESSMENT WE	IGHTING: 20%
Exams	Weightings
End of Block Practical/ OSPE/ OSCE	20%
End of Block Practical/ OSPE/ OSCE	20%
End of Block Practical/ OSPE/ OSCE	20%
SGD/ CBL/ INTEGRATED SESSION	10%
Pre-Annual Exam	30%
Total	100%
SPE (20 Marks)	

Stations

5

2

Marks

5×2=10

2×4=8

Time

2 min each station

4 min each station

Internal Assessment Calculation (Theory Annual)

A	В	С	D
Roll No.	Name	All Modules/ Pre annual Exams or any other exam	Total Marks of internal Assessment out of 20
Tot	al Marks	Sum of Marks obtained x 20 / sum of total marks in all exams	

<u>Table of specifications for Annual Professional Exam: Practical Clinical</u>

<u>Assessment</u>	
Total	= 50
OSPE	= 18
VIVA	= 18
Log Book	= 04
Internal Assessment	= 10

OSPE (20 Marks)					
	Stations	Marks	Time		
Static Stations	5	5×2=10	2 min each station		
Interactive Stations	2	2×4=8	4 min each station		

Internal Assessment Calculation (Practical)

A	В	С	D
Roll No.	Name	OSPE/ Practical Class tests though out the year/ Pre annual Practical Exams or any other exam	Total Marks of internal assessment Out of 20
Total M	arks	Sum of marks obtained x 20 / sum of total marks in all exams	

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 classe 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.