



LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY
DEPARTMENT OF HEALTH PROFESSIONS EDUCATION
COLLEGE OF DENTISTRY



**SPECIAL SENSES
MODULE**





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CODES			
Subject Name		Abbreviations	Color Codes
ANATOMY	Anatomy Lectures	A	
	General Anatomy	A(Gn)	Navy Blue
	Gross anatomy	A(Gr)	Black
	Histology	A(H)	Light Pink
	Neuro - Anatomy	A(NA)	Red
	Embryology	A(E)	Brown
	Histology Practical	A(P)	Light Pink
PHYSIOLOGY	Lecture	P	Green
	Practical	P(P)	
BIOCHEMISTRY	Lectures	B	Light Blue
	Practical	B(P)	
ORAL BIOLOGY	Oral Biology	O	Purple
	Tooth Morphology	T	Dark Pink



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CONTENT
SPECIAL SENSES MODULE

Subject Name		TOTAL NO: OF LECTURES	WEEK PER MODULE	MODE OF TEACHING
ANATOMY	Gross Anatomy	02	01 Week	Lecture/ Tutorial
PHYSIOLOGY	Lecture	08		Lecture/ Tutorial
	Practical	05		Practical
BIOCHEMISTRY	Lectures	01		Lecture/ Tutorial
	Practical	00		Practical
ORAL BIOLOGY	Oral Biology	00		Lecture
	Tooth Morphology	04		Lecture
Total		20		





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Topic	Lecture	Special Senses - Learning Objectives	Learning Strategy	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
Gross anatomy of eye	SSM-A1(Gr1)	<ul style="list-style-type: none"> Identify the 3 coats and the components of each coat. Describe the contents of eyeball 	Lecture/Tutorial	Knowledge	MCQ / OSPE
Physics of Image formation	P1	Explain refraction and refractory structure of eye along with the physics of refraction involve in the eye	Interactive Lecture	Knowledge, Skill & Attitude	MCQ
		Discuss the fluid system of eye		Knowledge	MCQ
Photoreceptors, phototransduction & Color Vision	P2 + 3	Discuss the error of refraction and their connections	Interactive Lecture tutorial SGD	Knowledge, Skill & Attitude	MCQ / OSPE
		Explain the accommodation		Knowledge	MCQ
		Explain the types and mechanism of stimulation of photoreceptors, photo transduction.		Knowledge	MCQ
		Discuss the anatomy & function of the structural elements of the retina		Knowledge	MCQ
		Discuss the photochemistry of vision (light and dark adaptation)		Knowledge	MCQ
		Discuss the process of color vision		Knowledge, Skill & Attitude	MCQ / OSPE
		Discuss the neural function of the retina		Knowledge	MCQ
		Explain in detail visual pathway along with its lesions.		Knowledge, Skill & Attitude	MCQ / OSPE / google classroom assignment
		Describe formation of image on retina and further processing on visual cortex.		Knowledge, Skill & Attitude	MCQ / OSPE
		Define the terms: light and dark adaptations, cataract		Knowledge	MCQ
	P(P)1	Demonstrate field of vision by Perimetry	Practical	Knowledge, Skill & Attitude	MCQ / OSPE
	P(P)2	Record Visual Acuity of a subject by Snellen's Chart	Practical	Knowledge, Skill & Attitude	MCQ / OSPE
	P(P)3	Demonstrate color vision by Ishihara Chart	Practical	Knowledge, Skill & Attitude	MCQ / OSPE
Vitamin	B1	Explain the functions, sources & clinical abnormalities of Vitamin A,	Lecture	Knowledge	MCQ/OSPE
Anatomy of Ear	SSM-A2	<ul style="list-style-type: none"> Describe the division of ear. 	Lecture	Knowledge	MCQ / OSPE



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	(Gr2)	<ul style="list-style-type: none"> Discuss the gross features & nerve supply of external ear. Identify the boundaries and relations of middle ear. List the contents of middle ear. 			
Hearing	P4 +5	Explain the physiological anatomy of ear.	Interactive Lecture	Knowledge	MCQ
		Explain the role of ossicles in the process of hearing.		Knowledge	MCQ
		Describe how frequency, loudness and direction of sound are perceived		Knowledge	MCQ
		How sound waves are conducted from tympanic membrane to basilar membrane.		Knowledge	MCQ/ Google classroom assignment
Auditory Pathway		Describe the auditory pathway and various types of deafness with their causes. (conductive and perceptive deafness)		Knowledge, Skill & Attitude Knowledge, Skill & Attitude	MCQ / OSPE MCQ / OSPE
Equilibrium	P6	Describe how the vestibular apparatus functions to monitor equilibrium	Interactive Lecture/ CBL	Knowledge, Skill & Attitude	MCQ / OSPE
	P(P)4	Demonstrate different hearing tests using tuning Forks	Practical	Knowledge, Skill & Attitude	MCQ / OSPE
Olfactory & taste Pathway/ Gustation	P7	Describe the structure and function of olfactory Membrane receptors in relation to olfactory pathway	Interactive Lecture	Knowledge	MCQ
		Discuss the abnormalities of smell	Lecture	Knowledge & Skill	MCQ / OSPE
	P8	Describe the structure & function of taste buds and taste Pathway Discuss the types of taste buds, locations activation and their perception on tongue Explain taste pathway	Interactive lecture	Knowledge Knowledge & Skill Knowledge, Skill & Attitude	MCQ MCQ / OSPE MCQ MCQ / OSPE
		P(P)5	Detect different taste & smell sensations.	Practical	
Maxillary molars	T1	Enumerate the buccal, palatal, proximal aspects of maxillary 1st molar	Lecture/ Tutorial	Knowledge	MCQ / OSPE
	T2	Enumerate occlusal aspects of maxillary 1st molar		Knowledge	MCQ / OSPE
	T3	Enumerate the buccal, palatal, proximal and occlusal aspects of maxillary 2nd molar		Knowledge	MCQ / OSPE
	T4	Differentiate between maxillary 1st, 2nd and 3rd molars on the basis of their morphology		Knowledge (fish bowl)	MCQ / OSPE



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ISLAMIC STUDIES				
Topic	Objectives	Mode of Teaching	KSA Competencies Knowledge/ Skill/ Attitude	Assessment Tools
		Lecture/ Tutorials		
INTRODUCTION TO THE HOLY QURAN				
Introduction To The Holy Quran	<ul style="list-style-type: none"> Discuss the importance of the Quran in our daily lives 	Lecture	Knowledge	MCQs
	<ul style="list-style-type: none"> Describe briefly the history of revelation of the Quran (Prediction of Warqa bin Naufal, 1st Revelation etc). 	Lecture		
	<ul style="list-style-type: none"> Explain how the Quran is the greatest miracle of Rasool-ullah (S.A.W). 			
	<ul style="list-style-type: none"> Explain how the Quran was compiled in different ways in the era of: <ul style="list-style-type: none"> Rasool-ullah (S.A.W) Abu Bakar (R.A.) Usman Ghani (R.A.) 			
	<ul style="list-style-type: none"> Discuss the Quranic Sciences (Ulloom ul Quran): <ul style="list-style-type: none"> Definition and differences between Makkan and Madinah verses or chapters. Explain the Shan e Nuzool / reasons for the revelation (Two examples) 			
	<ul style="list-style-type: none"> Differentiate between the Abrogator & Abrogated verses (Nasikh & Mansookh) (Two examples) 			



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INTRODUCTION TO ETHICS				
Topic	Objectives	Mode of Teaching	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
		Lecture/Tutorials		
Applied Ethics	• Differentiate among normative ethics, met ethics and applied ethics	Lecture	Knowledge	MCQs
	• Provide examples of applied ethics			

