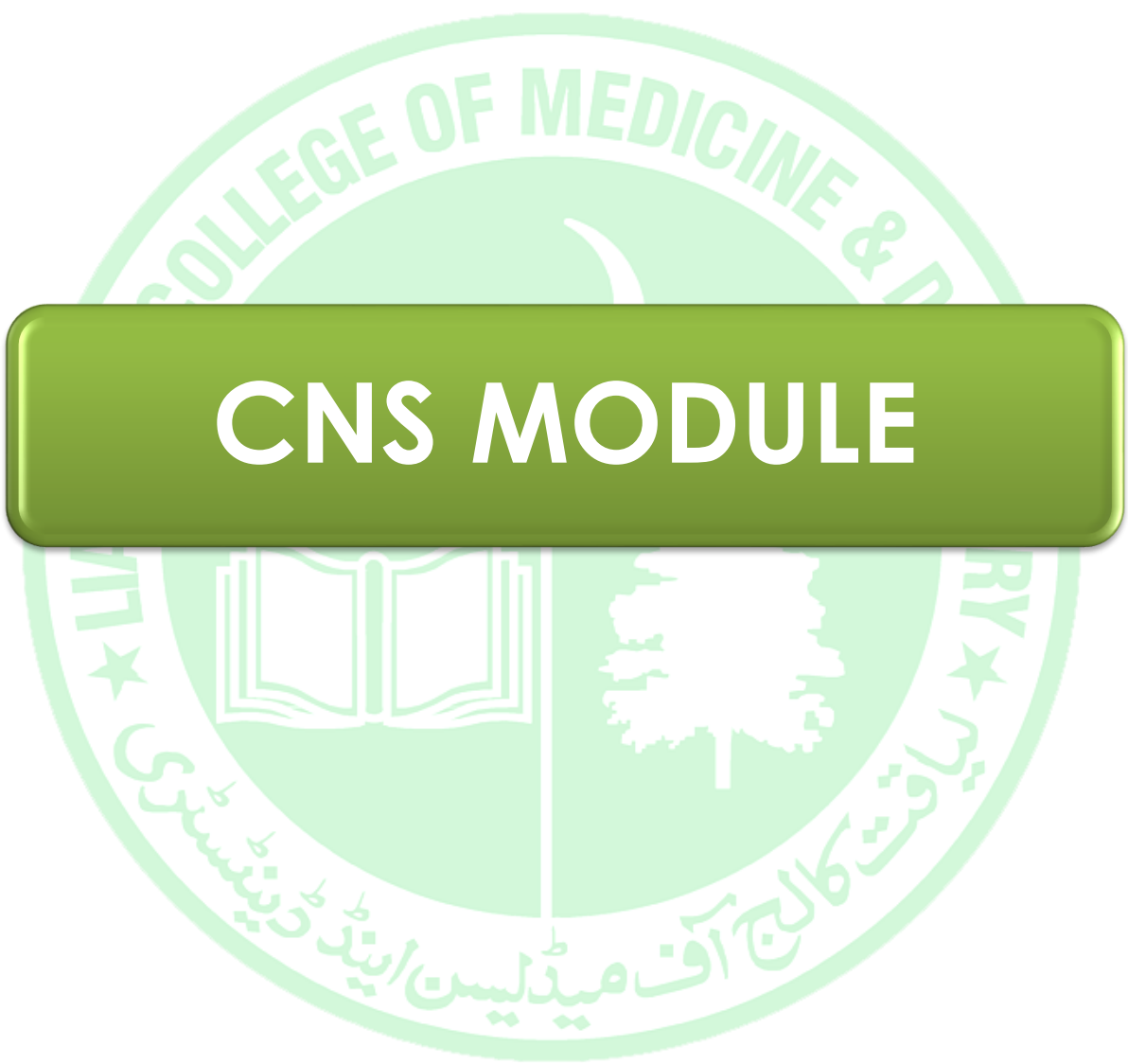




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**CNS MODULE**





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



<b>CONTENT</b>				
<b>CENTRAL NERVOUS SYSTEM MODULE</b>				
<b>Subject Name</b>		<b>TOTAL NO: OF LECTURES</b>	<b>WEEK PER MODULE</b>	<b>MODE OF TEACHING</b>
<b>ANATOMY</b>	General Anatomy	<b>03</b>	<b>03 Weeks</b>	Lecture/ Tutorial
	Gross Anatomy	<b>01</b>		Lecture/ Tutorial
	Neuro - Anatomy	<b>22</b>		Lecture/ Tutorial
	Embryology	<b>01</b>		Lecture/ Tutorial
	Histology	<b>01</b>		Lecture/ Tutorial
	Practical	<b>03</b>		Practical
<b>PHYSIOLOGY</b>	Lecture	<b>20</b>		Lecture/ Tutorial
	Practical	<b>04</b>		Practical
<b>BIOCHEMISTRY</b>	Lectures	<b>06</b>		Lecture/ Tutorial
	Practical	<b>00</b>		Practical
<b>ORAL BIOLOGY</b>	Oral Biology	<b>03</b>		Lecture
	Tooth Morphology	<b>04</b>		Lecture
<b>Total</b>		<b>68</b>		



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Topic	Lecture	CNS - Learning Objectives	Learning Strategy	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
<b>Cranial Fossae</b>	CNS-A1(Gr1)	<ul style="list-style-type: none"> <li>Identify the boundaries, bones and foramina of 3 cranial fossae.</li> <li>Relate the contents passing through the foramen.</li> </ul>	Flipped classroom / Tutorial / SGD	KSA	MCQ / OSPE
<b>Divisions Of Nervous System</b>	CNS-A2(NA1)	<ul style="list-style-type: none"> <li>List the subdivisions (CNS, PNS, ANS) of nervous system &amp; their component parts.</li> </ul>	Lecture	Knowledge	MCQ / OSPE
<b>Development Of Nervous System</b>	CNS-A3(E1)	<ul style="list-style-type: none"> <li>Discuss differentiation of neural tube in brain vesicles.</li> <li>List the derivatives of brain vesicles</li> <li>Define Alar and Basal plates.</li> </ul>	Lecture	K	MCQ / OSPE
<b>Excitable And Non-Excitable Cells</b>	CNS-A4(NA2)	<ul style="list-style-type: none"> <li>Tabulate different cells types (neuron &amp; neuroglia) and their function.</li> </ul>	Lecture	Knowledge	MCQ
<b>Introduction</b>	P1	Describe the general organization of central and peripheral nervous system.	Interactive Lecture	Knowledge	MCQ
		Explain how stimulation of a neuron causes local electric change in its membrane		Knowledge	MCQ
		Explain how electrical changes generate an action potential in a neuron		Knowledge	MCQ
<b>Neuron</b>	P2	Describe the structure and functions of Neuron	Interactive Lecture/tutorial/ SGD	Knowledge	MCQ
<b>Reflex Action</b>		Classify the nerve fibers		Knowledge	MCQ
		Define reflex action		Knowledge	MCQ/ quiz assign
		list its components		Knowledge, Attitude	MCQ
<b>Meninges</b>	CNS-A5(NA3)	<ul style="list-style-type: none"> <li>Describe the Dural folds and their function.</li> <li>Define: Arachnoids Mater, sub arachnoid Space, arachnoid villi &amp; granulations.</li> <li>Describe Pia mater, its modification the denticulate ligament and its contribution to choroid plexus.</li> <li>Discuss importance of epidural, subdural and subarachnoid spaces.</li> </ul>	Lecture	K	MCQ
<b>Spinal Cord</b>	CNS-A6-7(NA4-5)	<ul style="list-style-type: none"> <li>Describe the gross appearance of Spinal cord.</li> <li>State the location and function</li> </ul>	Lecture	KSA	MCQ / OSPE



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		<p>of Anterior &amp; Posterior horns.</p> <ul style="list-style-type: none"> <li>Name the nuclei of spinal cord along with its laminar organization.</li> <li>Describe the tracts in detail with function of each and clinical conditions related to these tracts</li> </ul>			
	CNS-A(P1)	Explain the microscopic features of spinal cord.	Practical	KSA	MCQ / OSPE
<b>Spinal &amp; Peripheral Nerve</b>	CNS-A8(Gn1)	<ul style="list-style-type: none"> <li>Summarize formation of typical spinal nerve.</li> <li>Differentiate spinal and peripheral nerves.</li> </ul>	Lecture	K	MCQ / OSPE
<b>Blood Brain Barrier</b>	CNS-A9(NA6)	Explain the structure and functions of blood brain barrier	Lecture	K	MCQ
<b>Ventricular System Of Brain &amp; Cerebrospinal Fluid</b>	CNS-A10(NA7)	<ul style="list-style-type: none"> <li>Relate the parts of ventricular system with the lobes of brain.</li> <li>Identify the openings /apertures of ventricular system</li> <li>Define Choroid Plexuses</li> <li>Describe boundaries of 4th ventricle &amp; features related to its floor</li> <li>Discuss clinical correlation of CSF flow.</li> </ul>	Lecture	K	MCQ / OSPE
<b>Histology Of Spinal Cord, Cerebellum And Cerebrum</b>	CNS-A11(H1)	Explain the microscopic features of spinal cord, cerebellum and cerebrum	Lecture	K	MCQ
<b>Synapse</b>	P3	List the properties of synapse.	Interactive Lecture/ Case based scenarios	Knowledge & Attitude	MCQ / OSPE
		Explain how electric signals are transmitted from one neuron to another		Knowledge	MCQ
		Explain how the stimulation of a postsynaptic cell is stopped		Knowledge	MCQ
<b>Receptors</b>	P4	Describe the properties & functions of different types of Receptors	Interactive Lecture	Knowledge	MCQ
		Classify receptors according to location and stimulus type they detect (pain touch temperature)		Knowledge & Attitude	MCQ/ google assignment
		Discuss receptor potential and transduction of sensory stimuli into nerve impulses		Knowledge	MCQ
	P(P)1	Demonstrate Superficial and Deep tendon Reflexes.	Practical/ video demonstration	Knowledge, Skills & Attitude	MCQ / OSPE
<b>Ascending Tracts</b>	P5	List the different types of sensory pathways	Interactive Lecture/ Tutorial flipped	Knowledge & Attitude	MCQ
		Discuss the transmission of sensory information into CNS (DCML)		Knowledge & Attitude	MCQ / OSPE/



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			class room		google classroom assignment
	P6	Discuss the transmission of sensory information into CNS (Anterolateral system)		Knowledge & Attitude	MCQ / OSPE
<b>Types Of Pain</b>	P7 +P8	Discuss the types of pain and their qualities	Interactive Lecture/ Tutorial /CBL	Knowledge & Attitude	MCQ/ quiz assign
		Discuss pain receptors and dual pathways for transmission of pain signals into CNS		Knowledge & Attitude	MCQ
		Discuss referred pain and its mechanism		Knowledge	MCQ
<b>Analgesia System And Referred Pain</b>		Discuss the analgesia system in the brain and spinal cord		Knowledge & Attitude	MCQ
		Explain the brain opioids system		Knowledge & Attitude	MCQ
		Define referred pain		Knowledge	MCQ
		Discuss common painful conditions (trigeminal neuralgia headache, herpes zoster, thalamic syndrome)		Knowledge & Attitude	MCQ/ quiz assign
<b>Touch And Temperature</b>	P9	Discuss sensation of touch and temperature	Interactive Lecture	Knowledge & Attitude	MCQ class test via socrative
<b>Spinal Cord</b>	P10 + P11	Discuss the organization of spinal cord for motor function	Interactive Lecture	Knowledge &Attitude	MCQ
		Discuss the role of muscle spindle and Golgi tendon organ muscles control		Knowledge	
		Discuss the spinal cord reflexes		Knowledge	
<b>Sensory Cortex</b>	P12	Explain location and functions of different areas of sensory cortex	Interactive Lecture	Knowledge	MCQ
<b>Motor Cortex</b>	P13	Explain location and functions of different areas of motor cortex in execution and regulation of motor movements	Interactive Lecture	Knowledge	MCQ
<b>Descending Motor Pathways</b>	P14	Compare the pathway of pyramidal efferent tracts extra pyramidal tracts in terms of origin, area of decussating, terminations and function	Flipped class room	Knowledge & Attitude	MCQ
		Differentiate between Upper motor neuron and lower motor neuron lesions		Knowledge & Attitude	MCQ
<b>Cranial Nerves (I-XII)</b>	CNS-A12-14(NA8-10)	<ul style="list-style-type: none"> <li>• Describe the origin, exit &amp; functional components of nerves.</li> <li>• Describe the brief course of each nerve.</li> <li>• Tabulate their branches &amp; area of supply.</li> </ul>	Lecture/ Tutorial	Knowledge, Skill & Attitude	MCQ / OSPE



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		<ul style="list-style-type: none"> <li>Discuss the impact of injury.</li> </ul>				
<b>Brainstem (Midbrain, Pons &amp; Medulla) &amp; Role Of Brain Stem</b>	CNS-A15-17(NA11-13)	<ul style="list-style-type: none"> <li>Describe the location and division of brain stem.</li> <li>Describe the gross appearance of Medulla, Pons and Midbrain and emergence of cranial nerves.</li> </ul>	Lecture / Tutorial	Knowledge, Skill & Attitude	MCQ / OSPE	
	P15	Outline the major functions of brain stem Midbrain Pons Medulla oblongata	Interactive Lecture/ Tutorial SGD	Knowledge	MCQ	
		Discuss the control of motor functions by the brain stem		Knowledge & Attitude	MCQ	
<b>Cerebellum Role Of Cerebellum</b>	CNS-A18(NA14)	<ul style="list-style-type: none"> <li>List the 3 anatomical and functional lobes of cerebellum.</li> <li>Describe the external features and blood supply</li> </ul>	Lecture	Knowledge, Skill & Attitude	MCQ / OSPE	
	CNS-A(P2)	Explain the microscopic features of cerebellum	Practical	KSA	MCQ / OSPE	
	P16	Explain functional anatomy of cerebellum	Interactive Lecture/ tutorial CBL	Knowledge	MCQ	
		Explain the input and output connections of cerebellum			Knowledge	MCQ / OSPE
		Discuss the functions of cerebellum			Knowledge, Skill & Attitude	MCQ / OSPE
		Discuss the different cerebellar disorders			Knowledge, Skill & Attitude	MCQ / OSPE
	P(P)2	Demonstrate Cerebellar Function Test	Practical	Knowledge, Skill & Attitude	MCQ / OSPE	
P(P)3	Demonstrate cranial nerve examination.	Practical	Knowledge, Skill & Attitude	MCQ / OSPE		
<b>Basal Ganglia</b>	CNS-A19(NA15)	<ul style="list-style-type: none"> <li>Identify the different parts of basal nuclei on laminated picture/CT scan</li> </ul>	Lecture	Knowledge, Skill & Attitude	MCQ / OSPE	
	P17	Explain different types of structures that make the basal ganglia Explain the direct and indirect pathway of basal ganglia Explain the functions of basal ganglia and its related disorders	Lecture/ Tutorial CBL	Knowledge & Attitude	MCQ / OSPE	
<b>Diencephalon (Thalamus And Hypothalamus )</b>	CNS-A20(NA16)	<ul style="list-style-type: none"> <li>Identify the different parts of diencephalon in laminated picture/CT scan</li> </ul>	Lecture	Knowledge, Skill & Attitude	MCQ / OSPE	
	P18	Describe the parts of limbic system List the functions of Thalamus and hypothalamus Discuss the functions of adrenal medulla in connection with sympathetic	Interactive Lecture CBL	Knowledge	MCQ	



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	P(P)4	Estimate your body temperature with the help of thermometer	Practical	Knowledge, Skill & Attitude	OSPE
<b>AUTONOMIC NERVOUS SYSTEM</b>	CNS-A21-22(Gn2-3)	<ul style="list-style-type: none"> <li>Classify Autonomic nervous system</li> <li>Differentiate the components of sympathetic &amp; parasympathetic system and their function.</li> </ul>	Lecture	K	MCQ
	P19	Differentiate between sympathetic and parasympathetic nervous system on the basis of origin, neurotransmitters involved, types of receptors and functions	Interactive Lecture	Knowledge & Attitude	MCQ
<b>CSF</b>	P20	Explain the Formation and functions of CSF	Interactive Lecture	Knowledge	MCQ
		Explain the circulation and absorption of CSF		Knowledge	MCQ
		Describe CSF pressure and its regulation		Knowledge	MCQ
	P(P)3	Record your own body temperature	Practical	Knowledge, Skill & Attitude	MCQ / OSPE
<b>CEREBRUM</b>	CNS-A23-24(NA17-18)	<ul style="list-style-type: none"> <li>Identify the main Sulci and Gyri; and functional cortical areas.</li> <li>Relate the functional areas with their vascular supply.</li> <li>Define the types of white fibers.</li> </ul>	Lecture / Tutorial Lecture	Knowledge, Skill & Attitude	MCQ / OSPE
	CNS-A(P3)	Explain the microscopic features of cerebrum	Practical	KSA	MCQ / OSPE
<b>Blood Supply Of Brain And Spinal Cord</b>	CNS-A25-26(NA19-20)	<ul style="list-style-type: none"> <li>List the branches of internal carotid artery, vertebral artery &amp; Basilar artery.</li> <li>Describe location and formation of Circle of Willis.</li> <li>Outline the course of internal carotid &amp; vertebral arteries.</li> <li>Demarcate the area of supply of the 3 cerebral arteries.</li> <li>Describe the origin &amp; area of supply of Spinal arteries.</li> <li>Discuss the deficit caused by occlusion of cerebral arteries and spinal arteries.</li> </ul>	Lecture/ Tutorial	Knowledge	MCQ / OSPE
<b>Dural Venous Sinuses</b>	CNS-A27(NA21)	<ul style="list-style-type: none"> <li>List Paired &amp; Unpaired sinuses.</li> <li>Discuss their association with dural folds and bones of cranial cavity.</li> <li>Describe the location and contents of Cavernous sinus and its communication with veins of orbit &amp; face.</li> </ul>	Lecture	KSA	MCQ / OSPE
<b>Imaging Of Brain And Spinal Cord</b>	CNS-A28(NA22)	<ul style="list-style-type: none"> <li>Identify normal radiological anatomy of brain and spinal cord.</li> </ul>	Lecture	KSA	MCQ / OSPE



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<b>Neurotransmitters</b>	B1	Explain the chemistry, biosynthesis, mechanism of action & metabolic role of neurotransmitters.	Lecture	Knowledge	MCQ/OSPE
<b>Repair &amp; regeneration</b>	O1+O2	Differentiate between repair and regeneration	Lecture/ Tutorial	Knowledge	MCQ / OSPE
		Discuss the Steps Of Healing		Knowledge	MCQ / OSPE
		Define Hemostasis		Knowledge	MCQ / OSPE
		Explain Inflammatory Cell Activation, Migration, And Function		Knowledge	MCQ / OSPE
		Describe Reparative Phase		Knowledge	MCQ / OSPE
		Enumerate Wound Contraction And Scarring		Knowledge	MCQ / OSPE
		Discuss the steps of Repair Following Tooth Extraction		Knowledge	MCQ / OSPE
		Discuss Wound Healing At the Dentine-Enamel Junction		Knowledge	MCQ / OSPE
		Summarize the Repair Of Enamel.		Knowledge	MCQ / OSPE
<b>Dental Caries</b>	O3	Define active and arrested caries	Lecture/ Tutorial	Knowledge	MCQ / OSPE
		Discuss Repair Of The Dentin – Pulp Complex		Knowledge	MCQ / OSPE
		Describe dental caries.		Knowledge	MCQ / OSPE
		Enumerate zones of caries		Knowledge	MCQ / OSPE
<b>Mandibular 1st Molar</b>	T1	Enumerate the buccal, lingual, mesial, distal aspect of mandibular first molar	Lecture/ Tutorial	Knowledge	MCQ / OSPE
	T2	Enumerate occlusal aspects of mandibular first molar		Knowledge	MCQ / OSPE
<b>Mandibular 2nd Molar &amp; 3rd</b>	T3	Enumerate the buccal, lingual, mesial, distal, and occlusal aspects of mandibular second molar	Lecture/ Tutorial	Knowledge	MCQ / OSPE
	T4	Differentiate between 1st, 2nd and 3rd mandibular molars on the basis of their morphology		Knowledge	MCQ / OSPE
<b>Genetics</b>	B2	Describe chemical structure of nucleoproteins	Lecture/ Tutorial	Knowledge	MCQ/OSPE
		Explain the significance of nucleoproteins		Knowledge	MCQ/OSPE
	B3	Describe the chemical structure, properties & functions of DNA & RNA,	Lecture/ Tutorial	Knowledge	MCQ/OSPE
	B4	Discuss the central dogma of molecular biology (Replication)	Lecture/ Tutorial	Knowledge	MCQ/OSPE
	B5	Discuss the central dogma of molecular biology (Transcription)	Lecture/ Tutorial	Knowledge	MCQ/OSPE



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	B6	Discuss the central dogma of molecular biology (Translation)	Lecture/ Tutorial	Knowledge	MCQ/OSPE
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ISLAMIC STUDIES				
Topic	Objectives	Mode of Teaching	KSA Competencies	Assessment Tools
		Lecture/ Tutorials	Knowledge/ Skill/ Attitude	
<b>INTRODUCTION TO THE HOLY QURAN</b>				
<b>Introduction To The Holy Quran</b>	<ul style="list-style-type: none"> <li>Discuss the importance of the Quran in our daily lives</li> </ul>	Lecture	Knowledge	MCQs
	<ul style="list-style-type: none"> <li>Describe briefly the history of revelation of the Quran (Prediction of Warqa bin Naufal, 1st Revelation etc).</li> </ul>	Lecture		
	<ul style="list-style-type: none"> <li>Explain how the Quran is the greatest miracle of Rasool-ullah (S.A.W).</li> </ul>			
	<ul style="list-style-type: none"> <li>Explain how the Quran was compiled in different ways in the era of:                             <ul style="list-style-type: none"> <li>Rasool-ullah (S.A.W)</li> <li>Abu Bakar ( R.A.)</li> <li>Usman Ghani (R.A.)</li> </ul> </li> </ul>			
	<ul style="list-style-type: none"> <li>Discuss the Quranic Sciences (Uloom ul Quran):                             <ul style="list-style-type: none"> <li>Definition and differences between Makkan and Madinah verses or chapters.</li> <li>Explain the Shan e Nuzool / reasons for the revelation (Two examples)</li> </ul> </li> </ul>			
	<ul style="list-style-type: none"> <li>Differentiate between the Abrogator &amp; Abrogated verses (Nasikh &amp; Mansookh) (Two examples)</li> </ul>			



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INTRODUCTION TO ETHICS				
Topic	Objectives	Mode of Teaching	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
		Lecture/Tutorials		
<b>Axiology</b>	<ul style="list-style-type: none"><li>Differentiate between axiology and ethics</li></ul>	Lecture	Knowledge	MCQs
<b>Deontology</b>	<ul style="list-style-type: none"><li>Describe the characteristics of Deontology and its role in ethics</li></ul>	Lecture	Knowledge	MCQs
<b>Ross's Moral Theory</b>	<ul style="list-style-type: none"><li>Define the various prima facie obligations according to Ross' theory</li></ul>	Lecture	Knowledge	MCQs
<b>Virtue Ethics</b>	<ul style="list-style-type: none"><li>Define virtue ethics</li></ul>	Lecture	Knowledge	MCQs
	<ul style="list-style-type: none"><li>Differentiate virtue ethics from utilitarianism and deontologism</li></ul>			





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RESEARCH				
Topic	Objectives	Learning Strategy	KSA Competencies Knowledge/ Skill/ Attitude	Assessment Tools
<b>Poster Designing</b>	<ul style="list-style-type: none"><li>• Design the research posters.</li><li>• To present their research projects</li></ul>	Lecture	KSA	Summative Assignment





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LEADERSHIP, PROFESSIONALISM & ETHICS (LeaPE)				
Topic	Objectives	Mode of Teaching	KSA Competencies	Assessment Tools
		Lecture/ Tutorials	Knowledge/ Skill/ Attitude	
<b>BIOETHICS</b>				
<b>Introduction to Professionalism &amp; Medical Ethics</b>	<ul style="list-style-type: none"> <li>Define Professionalism and its various components</li> </ul>	Lecture /role play/ Small group discussion	KSA	MCQs
	<ul style="list-style-type: none"> <li>Differentiate among Ethics, Bio-ethics and Medical ethics</li> </ul>		KSA	
	<ul style="list-style-type: none"> <li>Define the duties of doctor as advised by the international code of medical ethics</li> </ul>		KSA	
	<ul style="list-style-type: none"> <li>Explain the principles of bio-ethics &amp; medical ethics</li> </ul>		KSA	
	<ul style="list-style-type: none"> <li>Discuss the development of medical ethics in the perspective of the different ethical codes and declarations developed over time</li> </ul>		KSA	MCQs
	<ul style="list-style-type: none"> <li>Define medical ethics, bioethics, and professionalism in dentistry.</li> <li>Differentiate between ethics, bioethics, and medical ethics.</li> <li>Explain the duties of a dentist as outlined by international ethical codes.</li> <li>Discuss the principles of bioethics (autonomy, beneficence, non-maleficence, justice).</li> <li>Analyze historical developments in medical ethics.</li> </ul>	Lecture /Small group discussion	KSA	MCQs