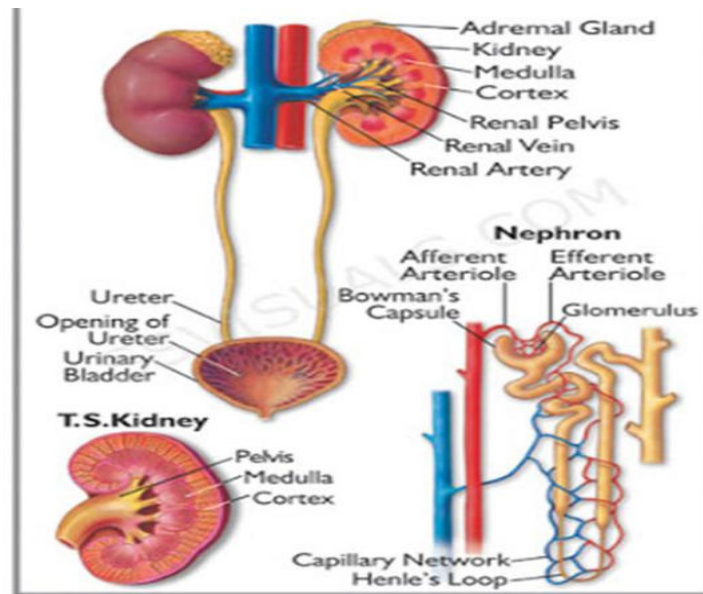




**RENAL MODULE
STUDY GUIDE
MBBS YEAR II
2022-2023**



**BAQAI MEDICAL COLLEGE
BAQAI MEDICAL UNIVERSITY**

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LIST OF ABBREVIATIONS

Ana-Lect	Anatomy Lecture	CBL	Case Based Learning
DSL	Directed Self Learning	SDL	Self-directed learning
SGD	Small Group Discussion	DSL	Directed Self learner
PW	Practical Work	OSCE	Objective Structured Clinical Examination

MCQ	Multiple Choice Question	Phy-Lect	Physiology Lecture
BMU	Baqai Medical University	Bio-Lect	Biochemistry Lecture
BMC	Baqai Medical College	PEaRLS	Professionalism, Ethics, Research, Leadership, Communication Skills.
LGIF	Large group interactive format	SGIF	Short group interactive format
TS	Teaching strategy		

BAQAI MEDICAL UNIVERSITY VISION STATEMENT

To evolve as a nucleus for higher learning with a resolution to be socially accountable, focused on producing accomplished health care professionals for services in all spheres of life at the national and global level.

BAQAI MEDICAL UNIVERSITY MISSION STATEMENT

University is dedicated to the growth of competencies in its potential graduates through dissemination of knowledge for patient care, innovation in scholarship, origination of leadership skills, and use of technological advancements and providing.

BAQAI MEDICAL COLLEGE MISSION STATEMENT

The mission of the Baqai medical college is to produce medical graduates, who are accomplished and responsible individuals and have skills for problem solving, clinical judgment, research & leadership for medical practice at the international level and are also aware of the health problems of the less privileged rural and urban population of Pakistan.

OUTCOMES OF THE MBBS PROGRAM

By the end of five years MBBS program, The Baqai Medical College graduate will be able to:

- Write and report focused history, perform physical examination, formulate a diagnosis and management plan for common health problems.
- Utilize knowledge of basic and clinical sciences for patient care.
- Apply evidence-based practices for protecting, maintaining and promoting the health of individuals, families and community.

- Identify problems, critically review literature, conduct research and disseminate knowledge.
- Lead other team members as per situational needs for quality health service.

Acquire professional behaviours that embodies lifelong learning, altruism, empathy and cultural sensitivity in provision health care service.

2nd Year MBBS Modular Committee

Dr. Rashid (Anatomy)	Chairman 2 nd Modular Committee and Head of CBL Team
Dr. Mubashara (Anatomy)	Time table developing team member-1
Dr. Saba Abrar (Physiology)	Time table developing team member-2
Dr. Farhan Sabir (Biochemistry)	Time table developing team member-3

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Dr. Nauman (Community Medicine)	Member
Dr. Muhammad Salman khan (Pathology)	Member
Dr. Hina (Pharmacology)	Member
Dr. Rafay (Forensic Medicine)	Member
Dr. Sidra (Surgery & allied)	Member
Dr. Anita Haroon (Medicine & Allied)	Member

Ms. Eraj Abbas (Research)	Member
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Introduction:

The Renal Module is the first module for 2nd Year MBBS Integrated Modular Curriculum for MBBS program. It will give an introduction and awareness about the curriculum of excretory system in general along with the teaching and learning environment. This module includes basic anatomical, physiological and biochemical concepts in relation to the excretory system and its link with clinical aspects related to the diseases of excretory system. It also includes the basis of research and orientation about the clinical sciences. The curriculum will be delivered in the form of interactive large and small group formats including lectures, SGDs, practical and DSL.

Duration	6 weeks
Dates	14-03-2022 to 22-04-2022
Placement in Course	1 st Module of 2 nd Year MBBS
EOA (End of module Assessment)	25 th April, 2022 (Subject to minor changes)

Distribution of Teaching Activities

Learning Objectives:

ANATOMY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
GROSS FEATURE OF KIDNEY-I (LEC-1)			
<ul style="list-style-type: none"> Describe the gross structure of kidney, its location and shape. Enlist the coverings of kidney. Describe the cortex and medulla of kidney. 	LGIS	1 hour	Lecture Hall-2, ground floor, A-Block
DEMONSTRATION OF KIDNEY MODEL-1 (SGT-1)			
<ul style="list-style-type: none"> Describe the model of kidney, its shape in detail. Describe the coverings of kidney. Define the side identification of kidneys. 	SGIS	2 hours	Anatomy LRC & Lecture Hall-2, Ground Floor, A-block
HISTOLOGY OF KIDNEY-I (HIS LEC-1)			
<ul style="list-style-type: none"> Describe the histological features of kidney (cortex & medulla). Discuss the parts of a nephron and their types. 	LGIS	1 hour	Lecture Hall-2, ground floor, A-Block

DEVELOPMENT OF KIDNEY & EXCRETORY SYSTEM (EMB LEC-1)			
<ul style="list-style-type: none"> Describe the role of intermediate mesoderm in the formation of kidney. Describe the development of kidney and excretory system step wise. 	LGIS	45 minutes	Lecture Hall-2, ground floor, A-Block
GROSS FEATURE OF KIDNEY-II (LEC-2)			
<ul style="list-style-type: none"> Discuss the relations of kidney. Describe the structure passing through the hilum of kidney with their sequence. 	LGIS	1 hour	Lecture Hall-2, ground floor, A-Block
DEVELOPMENT OF COLLECTING SYSTEM (EMB LEC-2)			
<ul style="list-style-type: none"> Describe the development of collecting system. Define the fate of the three progenitors of urinary system: PRONEPHROS, MESONEPHROS AND METANEPHROS. 	LGIS	1 hour	Lecture Hall-2, ground floor, A-Block
DEMONSTRATION OF KIDNEY MODEL-II (SGT-2)			
<ul style="list-style-type: none"> Describe the cortex and medulla of kidney in model. Describe the structure passing through the hilum 	SGIS	2 hours	Anatomy LRC & Lecture Hall-2, Ground Floor, A-block

of kidney with their sequence.			
GROSS FEATURE OF KIDNEY-III (LEC-3)			
<ul style="list-style-type: none"> • Discuss the blood supply of kidney in detail, with clinical segmentation of kidney according to its blood supply. • Discuss the nerve supply of kidney. • Discuss the lymphatic drainage of kidney. 	LGIS	1 hour	Lecture Hall-2, ground floor, A-Block
DEVELOPMENTAL ANOMALIES OF KIDNEY (EMB LEC-3)			
<ul style="list-style-type: none"> • Describe the congenital anomalies of kidney (polycystic kidney, pelvic kidney, horseshoe kidney). 	LGIS	45 minutes	Lecture Hall-2, ground floor, A-Block
SLIDE OF KIDNEY- (PW-1)			
<ul style="list-style-type: none"> • Describe the identification features of histology of kidney. • Describe juxtaglomerular apparatus, their microscopic appearance. • Discuss the parts of a nephron and their microscopic appearance. 	SGIS	2 hours	Histology Lab, 1 st floor, A-Block
HISTOLOGY OF KIDNEY-II (HIS LEC-2)			
<ul style="list-style-type: none"> • Describe the filtration 	LGIS	1 hour	Lecture Hall-2,

barrier and its significance. <ul style="list-style-type: none"> Describe juxtaglomerular apparatus, its location and significance. 			ground floor, A-Block
URETER (LEC-4)			
<ul style="list-style-type: none"> Name the parts of ureter. Describe the structure, and location of ureter. Describe the course, anatomical constrictions, and relations of ureter. Describe the blood supply, nerve supply and lymphatic drainage of ureter. 	LGIS	45 minutes	Lecture Hall-2, ground floor, A-Block
URINARY BLADDER (LEC-5)			
<ul style="list-style-type: none"> Name the parts of urinary bladder. Describe the structure and location of urinary bladder. Explain the location, apex, base, surfaces and relation of urinary bladder. Describe the trigone of the urinary bladder. Explain the support to the urinary bladder. Describe the blood supply, nerve supply and 	LGIS	2 hours	Lecture Hall-2, ground floor, A-Block

lymphatic drainage of urinary bladder.			
URETHRA (LEC-6)			
<ul style="list-style-type: none"> Name the parts of urethra. Describe the structure and location of male and female urethra. Describe the blood supply, nerve supply and lymphatic drainage of urethra. 	LGIS	1 hour	Lecture Hall-2, ground floor, A-Block
HISTOLOGY OF URINARY BLADDER AND URETHRA(HIS LEC-3)			
<ul style="list-style-type: none"> Describe the arrangement of layers in ureter & their microscopic appearance. Describe the arrangement of layers in urinary bladder and urethra & their microscopic appearance. 	LGIS	45 minutes	Lecture Hall-2, ground floor, A-Block
SLIDE OF URETER (PW-2)			
<ul style="list-style-type: none"> Describe the identification features of histology of ureter. Describe the arrangement of layers in ureter & their microscopic appearance. 	SGIS	2 hours	Histology Lab, 1 st floor, A-Block

DEVELOPMENT OF URINARY BLADDER, URETER AND URETHRA (EMB LEC-4)			
<ul style="list-style-type: none"> Discuss development of the following: <ul style="list-style-type: none"> -Nephron and its steps. -Collecting system of kidney and ureter, urinary bladder and urethra. 	LGIS	1 hour	Lecture Hall-2, ground floor, A-Block
DEMONSTRATION OF URINARY BLADDER, URETER AND URETHRA MODELS-I (SGT-3)			
<ul style="list-style-type: none"> Describe the model of ureter, urinary bladder, and urethra their shape in detail. Describe the locations of ureter, urinary bladder and urethra in abdomen model. Define the side identification of ureters. 	SGIS	2 hours	Anatomy LRC & Lecture Hall-2, Ground Floor, A-block
DEVELOPMENTAL DEFECTS OF URINARY BLADDER, URETER AND URETHRA (EMB LEC-5)			
<ul style="list-style-type: none"> Describe the congenital anomalies of urinary bladder, ureter (Bifid ureter) and urethra. 	LGIS	1 hour	Lecture Hall-2, ground floor, A-Block
SLIDE OF BLADDER (PW-3)			
<ul style="list-style-type: none"> Describe the identification features of histology of urinary bladder. Describe the arrangement 	SGIS	2 hours	Histology Lab, 1 st floor, A-Block

of layers in urinary bladder & their microscopic appearance.			
PROSTATE GLAND (LEC-7)			
<ul style="list-style-type: none"> Name the parts of prostate. Describe the structure and location of prostate. Explain the various lobes, surfaces and relation of prostate. Describe the blood supply, nerve supply and lymphatic drainage of prostate. 	LGIS	1 hour	Lecture Hall-2, ground floor, A-Block
DEVELOPMENT OF PROSTATE GLAND (EMB LEC-6)			
<ul style="list-style-type: none"> Describe the development of prostate. Describe the fate of arrangement of various lobes and urethra. 	LGIS	1 hour	Lecture Hall-2, ground floor, A-Block
HISTOLOGY OF PROSTATE GLAND (HIS LEC-4)			
<ul style="list-style-type: none"> Describe the arrangement of various layers of prostate and their microscopic appearance. Describe the arrangement of lobes and urethra & their microscopic 	LGIS	45 minutes	Lecture Hall-2, ground floor, A-Block

appearance.			
DEMONSTRATION OF URINARY BLADDER, URETER AND URETHRA MODELS-II (SGT-4)			
<ul style="list-style-type: none"> Describe the step wise ureter, urinary bladder and urethra in model. Describe the structures passing through the ureter, urinary bladder and urethra with their sequence. 	SGIS	1.45 hours	Anatomy LRC & Lecture Hall-2, Ground Floor, A-block
SLIDE OF URETHRA (PW-4)			
<ul style="list-style-type: none"> Describe the identification points of various parts of urethra & their microscopic appearance. Describe the various epithelium types of urethra & their microscopic appearance. 	SGIS	2 hours	Histology Lab, 1 st floor, A-Block
POSTERIOR ABDOMINAL WALL (LEC-8)			
<ul style="list-style-type: none"> Name the boundaries of posterior abdominal wall. Discuss the fascia of posterior abdominal wall. Describe the attachment of muscles of posterior abdominal wall. 	LGIS	1 hour	Lecture Hall-2, ground floor, A-Block

<ul style="list-style-type: none"> Describe the neurovascular supply and action. 			
VERTEBRAE (LEC-9)			
<ul style="list-style-type: none"> Identify the type of vertebrae. Identify the parts of the vertebrae. What are the structures attached on vertebrae. 	LGIS	2 hours	Lecture Hall-2, ground floor, A-Block
SURFACE ANATOMY OF URINARY SYSTEM (LEC-10)			
<ul style="list-style-type: none"> Enlist the structure of urinary system on the basis of surface anatomy. Discuss the various relations of urinary system. 	LGIS	1 hour	Lecture Hall-2, ground floor, A-Block
SLIDE OF PROSTATE GLAND (PW-5)			
<ul style="list-style-type: none"> Describe the identification of various layers of prostate and their microscopic appearance. Describe the arrangement of lobes and urethra & their microscopic appearance. 	SGIS	2 hours	Histology Lab, 1 st floor, A-Block

PHYSIOLOGY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
BODY FLUID & COMPARTMENTS (LEC-1)			

<ul style="list-style-type: none"> • Categorize the body fluid in the fluid compartments. • Differentiate the ionic concentration of intra & extra – cellular fluids. • Explain the process of estimation of fluids in different fluid compartments. 	LGIS	45 minutes	Lecture Hall 2,ground floor, A-Block
OSMOLARITY (LEC-2)			
<ul style="list-style-type: none"> • Define Osmolarity. • Explain the terms hypertonic, Isotonic & hypotonic fluids. • Summarize maintenance of osmotic equilibrium b/w extra & intra– cellular fluids. • Define edema & its types. 	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block
THE FUNCTIONS OF KIDNEY (LEC-3)			
<ul style="list-style-type: none"> • List the parts of the urinary excretory system. • Define the physiologic anatomy of kidney • List the functions of kidney. 	LGIS	45 minutes	Lecture Hall 2,ground floor, A-Block
THE ENDOCRINE FUNCTIONS OF KIDNEY (LEC-4)			
<ul style="list-style-type: none"> • Describe how each of the following functions in the 	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block

<p>extrinsic control of GFR: renin-angiotensin mechanism, natriuretic peptides, and sympathetic adrenergic activity.</p> <ul style="list-style-type: none"> Describe how these systems along with aldosterone works to regulate reabsorption and secretion to affect urine volume and composition. Name and define the roles of other hormones that regulate kidney control. 			
THE NEPHRON (LEC-5)			
<ul style="list-style-type: none"> Define nephron. Name the parts of the nephron List the functions of different parts of nephron. 	LGIS	45 minutes	Lecture Hall 2,ground floor, A-Block
JUXTAGLOMERULAR APPARATUS (LEC-6)			
<ul style="list-style-type: none"> Define the arrangement of Juxtaglomerular Apparatus. Explain the functional significance of juxtaglomerular apparatus. 	LGIS	45 minutes	Lecture Hall 2,ground floor, A-Block
MACULA Densa (LEC-7)			

<ul style="list-style-type: none"> Define and explain macula densa. Name the factors released from JG Apparatus. 	LGIS	45 minutes	Lecture Hall 2,ground floor, A-Block
GFR-I (LEC-8)			
<ul style="list-style-type: none"> Define glomerular filtration rate (GFR). List the factors affecting GFR. Estimate the net filtration pressure. 	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block
GFR-II (LEC-9)			
<ul style="list-style-type: none"> Define the functional arrangement of the glomerulus. List the filtration membrane of glomerulus. Differentiate between plasma & the glomerular filtrate. 	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block
RENAL AUTOREGULATION (LEC-10)			
<ul style="list-style-type: none"> List buffer systems of the body. Discuss the role of Kidneys in maintaining the acid – base balance. Discuss the role of JG Apparatus in auto - regulation of GFR. 	LGIS	1.45 hours	Lecture Hall 2,ground floor, A-Block
TUBULAR REABSORPTION (LEC-11)			

<ul style="list-style-type: none"> List specific transport mechanisms occurring in different parts of the nephron, including active transport, osmosis, facilitated diffusion, and passive electrochemical gradients. List the different membrane proteins of the nephron, including channels, transporters, and ATPase pumps. Compare and contrast passive and active tubular reabsorption. 	<p>LGIS</p>	<p>1.45 hours</p>	<p>Lecture Hall 2,ground floor, A-Block</p>
HORMONES ACTING ON KIDNEYS (LEC-12)			
<ul style="list-style-type: none"> List the hormones having effect on kidneys. Summarize the action of aldosterone on the kidneys Explain the role of ADH in conserving water. 	<p>LGIS</p>	<p>1 hour</p>	<p>Lecture Hall 2,ground floor, A-Block</p>
COUNTER CURRENT MECHANISM-I (LEC-13)			
<ul style="list-style-type: none"> The counter current mechanism takes place in Juxtamedullary nephron. The function of the countercurrent multiplier is 	<p>LGIS</p>	<p>2 hours</p>	<p>Lecture Hall 2,ground floor, A-Block</p>

<p>to produce the hyperosmotic Medullary Interstitium.</p> <ul style="list-style-type: none"> • The ADH promotes water reabsorption through the walls of the distal convoluted tubule and collecting duct. • The function of the Countercurrent exchanger “vasa recta” in maintenance of hyperosmolar medulla. 			
PH OF URINE (PW-1)			
<ul style="list-style-type: none"> • To estimate the pH of urine / water sample. 	SGIS	2 hours	Physiology lab, 1 st floor, A-Block
COUNTER CURRENT MECHANISM-II (LEC-14)			
<ul style="list-style-type: none"> • Define the physiologic arrangement of vasa recta. • List the mechanisms involved in urine concentration. Summarize counter – current mechanism in developing medullary hyperosmolarity • Explain the role of urea in causing hyperosmolarity of medullary Interstitium. 	LGIS	45 minutes	Lecture Hall 2,ground floor, A-Block
ROLE OF ADH IN FORMATION OF URINE (LEC-15)			

<ul style="list-style-type: none"> • Discuss the renal regulation of ECF. • Summarize role of ADH on tubular system in regulation of different ions. 	LGIS	2 hours	Lecture Hall 2,ground floor, A-Block
RENAL REGULATION OF ACID-BASE BALANCE (LEC-16)			
<ul style="list-style-type: none"> • List buffer systems of the body. • Discuss the role of Kidneys in maintaining the acid – base balance. 	LGIS	45 minutes	Lecture Hall 2,ground floor, A-Block
MICTURITION REFLEX (LEC-17)			
<ul style="list-style-type: none"> • Define micturition. Define the physiologic anatomy of the urinary bladder. • List the nerve innervating the urinary bladder. • Summarize the reflex that causes micturition to occur. 	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block
RENAL CLEARANCE (LEC-18)			
<ul style="list-style-type: none"> • Recall the tubular parts of nephron • List the steps of urine formation. • Discuss the method of creatinine clearance for estimating the kidney function. 	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block

<ul style="list-style-type: none"> List the substances with their relevant site of reabsorption in the tubules. Summarize the transport mechanisms occur at the nephron tubules. 			
ESTIMATION OF URINE PH (PW-2)			
<ul style="list-style-type: none"> To estimate the pH of urine / water sample. 	SGIS	2 hours	Physiology lab, 1 st floor, A-Block
BODY FLUID COMPARTMENTS (SGT-1)			
<ul style="list-style-type: none"> Define Body fluid Compartments. 	SGIS	45 minutes	Physiology lab, 1 st floor, A-Block
FILTRATION OF URINE & FACTORS AFFECTING GFR (SGT-2)			
<ul style="list-style-type: none"> Describe filtration of urine and factors affecting GFR. Describe the urine concentration ability of kidneys & renal clearance. 	SGIS	45 minutes	Physiology lab, 1 st floor, A-Block
ESTIMATION OF PH OF URINE (PW-3)			
<ul style="list-style-type: none"> Define the estimation of the pH of urine / water sample. 	SGIS	2 hours	Physiology lab, 1 st floor, A-Block
BIOCHEMISTRY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
REGULATORY MECHANISMS OF FLUID AND ELECTROLYTE BALANCE (LEC-1)			
<ul style="list-style-type: none"> Describe neural and hormonal regulatory 	LGIS	1 hour	Lecture Hall 2,ground

<p>mechanisms that operate to maintain homeostasis of fluid.</p> <ul style="list-style-type: none"> • Outline the role of kinins in water and electrolyte balance. • Outline the role of “atrial natriuretic peptide” in water and electrolyte balance. 			<p>floor, A-Block</p>
FLUID & ELECTROLYTE IMBALANCE-1 (LEC-2)			
<ul style="list-style-type: none"> • Define water intoxication. • Outline the causes, clinical features and biochemical findings of water intoxication. • Define dehydration. • Classify the types of dehydration as per Marriot’s classification. 	<p>LGIS</p>	<p>1 hour</p>	<p>Lecture Hall 2,ground floor, A-Block</p>
FLUID & ELECTROLYTE IMBALANCE-2 (LEC-3)			
<ul style="list-style-type: none"> • Outline the causes of primary and secondary dehydration. • Describe the pathophysiology of each type of dehydration. 	<p>LGIS</p>	<p>2 hours</p>	<p>Lecture Hall 2,ground floor, A-Block</p>
INTRODUCTION TO PROTEIN METABOLISM (LEC-4)			

<ul style="list-style-type: none"> • Define amino acid pool. • Describe the formation of amino acid pool. • Differentiate between positive and negative nitrogen balance. • Identify the removal of α-NH₂ group from amino acids as ammonia. 	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block
CATABOLISM OF AMINO ACIDS (LEC-5)			
<ul style="list-style-type: none"> • Describe the process of transamination and role of pyridoxal-P in transamination. • Describe the process of oxidative deamination. • Identify that transport of ammonia takes place in the form glutamate, glutamine and alanine. 	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block
SPECTROPHOTOMETRY (PW-1)			
<ul style="list-style-type: none"> • Describe the components of spectrophotometry along with its function. • Relate the use of the electromagnetic radiation: visible light in the application of spectrophotometry. 	SGIS	2 hours	Biochemistry Lab, 1 st floor, A-Block

<ul style="list-style-type: none"> • Discuss the terms Incident light, transmitted light, transmittance and optical density. • Describe Lambert-Beers Law. • Relate the function of spectrophotometer with that of estimating the concentration of biomolecules in a fluid. 			
UREA FORMATION (LEC-6)			
<ul style="list-style-type: none"> • Identify that ammonia from the tissues is diverted to the process of urea formation in liver. • Describe the steps and regulation of urea synthesis. • Identify the clinical importance of estimating serum urea for assessing renal diseases. 	LGIS	2 hours	Lecture Hall 2,ground floor, A-Block
FATE OF CARBON SKELETONS OF AMINO ACIDS (LEC-7)			
<ul style="list-style-type: none"> • Define glycogenic, ketogenic and 	LGIS	1 hour	Lecture Hall 2,ground

<p>glucoketogenic amino acids.</p> <ul style="list-style-type: none"> Identify the fate of carbon skeletons of various amino acids after its degradation. Enlist the amino acids under the categories of glucogenic, ketogenic and glucoketogenic amino acids. 			<p>floor, A-Block</p>
RENAL FUNCTION TESTS-1 (LEC-8)			
<ul style="list-style-type: none"> State the clinical importance of performing renal function test. Identify the indications for performing Renal Function Tests. Interpret the components of physical, chemical and microscopic examination of urine D/R. 	<p>LGIS</p>	<p>45 minutes</p>	<p>Lecture Hall 2,ground floor, A-Block</p>
RENAL FUNCTION TESTS-2 (LEC-9)			
<ul style="list-style-type: none"> Classify Renal Function Tests. Define 'clearance'. Explain briefly the procedure of endogenous 	<p>LGIS</p>	<p>1 hour</p>	<p>Lecture Hall 2,ground floor, A-Block</p>

<p>creatinine clearance test and inulin clearance test.</p> <ul style="list-style-type: none"> Relate the importance of using Cr-EDTA clearance test in children. 			
RENAL FUNCTION TESTS-3 (LEC-10)			
<ul style="list-style-type: none"> Define renal plasma flow, PAH clearance, Filtration fraction and state their normal values. Outline the significance of estimating Filtration Fraction for assessing renal plasma flow in kidney diseases. 	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block
RENAL FUNCTION TESTS-4 (LEC-11)			
<ul style="list-style-type: none"> Classify the tests based on tubular function tests. Identify the precautions to be taken in performing the tests of concentration and water dilution tests. Outline the interpretation of the results of the tubular function tests. State the importance of performing 15-minute PSP test. 	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block
ESTIMATION OF SERUM CREATININE (PW-2)			

<ul style="list-style-type: none"> • Describe the principle of the reaction taking place in the experiment by means of the reagents used. • Record the readings of transmittance of stock standard solutions and sample with the help of spectrophotometer. • Refer to the transmittance chart for obtaining optical density values of 'S' and 'T' test tubes. • Calculate the concentration of stock standard solutions of 'S' test tubes. • Draw the graph to obtain the concentration of Serum creatinine for the sample. • Interpret the result of whether the sample is creatinemia/hypocreatin 	SGIS	2 hours	Biochemistry Lab, 1 st floor, A-Block
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<p>emia or within the normal range.</p> <ul style="list-style-type: none"> State the normal range of serum creatinine. 			
RENAL FUNCTION TESTS-5 (LEC-12)			
<ul style="list-style-type: none"> Identify the importance of radiological tests of I/V pyelography, renogram and renal scintiscan for assessing renal size, shape and renal blood flow. Identify the components of I/V pyelography, renogram and renal scintiscan. 	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block
NUCLEOTIDE METABOLISM-1 (LEC-13)			
<ul style="list-style-type: none"> Illustrate the structure of purine base and its sources of C and N atoms. Describe the reactions and regulation of de novo purine synthesis. 	LGIS	45 minutes	Lecture Hall 2,ground floor, A-Block
NUCLEOTIDE METABOLISM-2 (LEC-14)			
<ul style="list-style-type: none"> Identify that purines and pyrimidines can be synthesized through an alternate route of salvage pathway. 	LGIS	45 minutes	Lecture Hall 2,ground floor, A-Block

<ul style="list-style-type: none"> Describe the reactions of 'salvage pathway' of purine bases. 			
NUCLEOTIDE METABOLISM-3 (LEC-15)			
<ul style="list-style-type: none"> Illustrate the structure of pyrimidine base and its sources of C and N atoms. Describe the reactions of pyrimidine synthesis. Describe the synthesis of deoxypyrimidine nucleotides needed for DNA formation. 	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block
ESTIMATION OF CREATININE CLEARANCE (PW-3)			
<ul style="list-style-type: none"> State the normal range of creatinine clearance. Read the instructions from the practical journal to prepare the 'S' test tubes of stock standard solutions and the 'T' test tube of sample. Describe the principle of the reaction taking place in the experiment in 	SGIS	2 hours	Biochemistry Lab, first floor, A-Block

<p>terms of the reagents used in the practical.</p> <ul style="list-style-type: none"> Record the readings of transmittance of 'S' and 'T' test tubes through the use of spectrophotometer. Refer to the transmittance chart for writing the optical density of respective 'S' and 'T' test tubes. Calculate the concentration of 'S' test tubes. Draw a graph using the values of optical density and concentration of 'S' test tubes to obtain the concentration of urinary creatinine 'U' in 'T' test tube. 			
NUCLEOTIDE METABOLISM-4 (LEC-16)			
<ul style="list-style-type: none"> Describe the catabolism of pyrimidine and purine nucleotides. 	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block

<ul style="list-style-type: none"> Identify that uric acid is formed from catabolism of purines and is excreted in urine. 			
NUCLEOTIDE METABOLISM-5 (LEC-17)			
<ul style="list-style-type: none"> Identify the importance of estimating serum uric acid for assessing renal diseases. Discuss gout and its clinical importance. Outline other inherited disorders of purine metabolism. 	LGIS	45 minutes	Lecture Hall 2,ground floor, A-Block
INTERPRETATION OF CREATININE CLEARANCE (PW-4)			
<ul style="list-style-type: none"> Calculate the rate of flow of urine 'v' with the help of the given 24 hour urine volume of the urinary sample. Apply the formula of (UV/P) using the value of 'P' and 'U' from the practical of estimation of serum creatinine and estimation of creatinine clearance respectively to 	SGIS	2 Hours	Biochemistry Lab, first floor, A-Block

<p>calculate the value of Creatinine clearance.</p> <ul style="list-style-type: none"> • Discuss the stages of chronic kidney disease based on the values of GFR. • Interpret the result of creatinine clearance test obtained to categorize the stage of chronic kidney disease the sample is demonstrating. 			
ESTIMATION OF SERUM UREA (PW-5)			
<ul style="list-style-type: none"> • State the normal range of serum urea. • Read the instructions from the practical journal to prepare the 'S' test tubes of stock standard solutions and the 'T' test tube of sample. • Describe the principle of the reaction taking place in the experiment in 	SGIS	2 hours	Biochemistry Lab, first floor, A-Block

<p>terms of the reagents used in the practical.</p> <ul style="list-style-type: none"> • Record the readings of transmittance of 'S' and 'T' test tubes through the use of spectrophotometer. • Refer to the transmittance chart for writing the optical density of respective 'S' and 'T' test tubes. • Calculate the concentration of 'S' test tubes. • Draw a graph using the values of optical density and concentration of 'S' test tubes to obtain the concentration of Serum urea in 'T' test tube. • Interpret the result of whether the sample demonstrates hypourureamia / uremia 			
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or within the normal range.			
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PATHOLOGY			
CONGENITAL AND DEVELOPMENTAL ANOMALIES (LEC-1)			
<ul style="list-style-type: none"> Identify various congenital and developmental anomalies of kidneys and ureters and their outcomes. 	LGIF	1 hour	Lecture Hall-II Block-A
CLINICAL MANIFESTATION OF RENAL DISEASES (LEC-2)			
<ul style="list-style-type: none"> Define the terms: Azotemia, Uremia, Acute renal failure, chronic renal failure Nephrotic & Nephritic syndrome, acute kidney injury, chronic kidney disease, End-stage renal disease (ESRD), Urinary tract infection (UTI), Nephrolithiasis. 	LGIF	1 hour	Lecture Hall-II Block-A
CYSTIC DISEASES OF THE KIDNEY (LEC-3)			
<ul style="list-style-type: none"> Describe the pathogenesis and clinical outcomes of Autosomal Dominant (Adult) Polycystic Kidney Disease and Autosomal 	LGIF	1 hour	Lecture Hall-II Block-A

Recessive (Childhood) Polycystic Kidney Disease.			
NEPHRITIC AND NEPHROTIC SYNDROME (LEC-4)			
<ul style="list-style-type: none"> Explain the pathogenesis of nephritic and nephrotic syndrome. 	LGIF	1 hour	Lecture Hall-II Block-A
RENAL STONES (UROLITHIASIS) (LEC-5)			
<ul style="list-style-type: none"> Classify various types of renal stones and discuss the pathogenesis and clinical features of nephrolithiasis. 	LGIF	1 hour	Lecture Hall-II Block-A

COMMUNITY MEDICINE			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
WATER RELATED DISEASES (LEC-1)			
<ul style="list-style-type: none"> Define and discuss water related diseases. Identify the preventive measures for the controlling the outbreak of water related diseases like gastroenteritis, cholera and typhoid in the community. Recognize the importance of community education 	LGIS	1 hour	Lecture hall-1 , community medicine, B-block

regarding safe drinking water and personal hygiene.			
COMMUNITY WATER SUPPLY (LEC-2)			
<ul style="list-style-type: none"> Define and comprehend the indicators of water quality. (Dissolved Oxygen, Biological Oxygen, demand, PH, Coliform bacteria). Describe the different causes of water pollution. (Nitrates, Metals, Sewage, Nutrients). Understand the different methods of water purification. (Storage, Sedimentation, Filtration, Disinfection). Discuss the Bradley classification of water related diseases. 	LGIS	1 hour	Lecture hall 1 , community medicine, B-block
DISPOSAL OF WASTE (LEC-3)			
<ul style="list-style-type: none"> Differentiate between various terminologies related to the disposal of waste. (Refuse, Sludge, Sewer, Sewage, Sullage) 	LGIS	1 hour	Lecture hall 1 , community medicine, B-block

<ul style="list-style-type: none"> • Understand the principal methods of refuse disposal. (Dumping, Controlled tipping, Incineration, Composting, Manure pits, Burial) • Understand the classification and description of methods of excrete disposal. (Dilution, Land treatment, Chemical & Biological treatment) • Discuss the Public Health importance of excreta disposal. 			
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RESEARCH			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
RESEARCH TOPIC SELECTION (LEC-1)			
<ul style="list-style-type: none"> • Define the criteria for topic selection. • Explain the rationale of selecting a new topic. 	LGIS	2 hours	Lecture Hall-II Block-A
RESEARCH PROJECT AND ITS COMPONENTS (LEC-2)			
<ul style="list-style-type: none"> • Define research synopsis. • List the components of a research. 	LGIS	2 hours	Lecture Hall-II Block-A

PEARLS			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
EMOTIONAL INTELLIGENCE-1 (LEC-1)			
<ul style="list-style-type: none"> Define Emotional Intelligence (EI) or Emotional Quotient (EQ). Differentiate between IQ & EQ. Discuss components of EI. 	LGIS	45 minutes	Lecture Hall-II Block-A
EMOTIONAL INTELLIGENCE-2 (LEC-2)			
<ul style="list-style-type: none"> Discuss "Amygdala Hijack". Discuss ways to develop EI 	LGIS	45 minutes	Lecture Hall-II Block-A
EMOTIONAL INTELLIGENCE-3 (LEC-3)			
<ul style="list-style-type: none"> Discuss components of EI Identify factors that affect EI. 	LGIS	45 minutes	Lecture Hall-II Block-A

ETHICS			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
MEDICAL NEGLIGENCE (LEC-1)			
<ul style="list-style-type: none"> Define medical negligence. Describe four d of medical negligence. Enumerate the types of medical negligence. Discuss medical negligence and mal practice. 	LGIS	45 minutes	Lecture Hall-II Block-A

BEHAVIOURAL SCIENCES			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
BIOPSYCHISOCIAL MODEL (LEC-1)			
<ul style="list-style-type: none"> • Explain the bio-psycho-social model. • Describe the evolution of the model in context of current health care systems. • Discuss the application of this model for health and diseases. • Compare the model with other theories of illness as an alternative practice. 	LGIS	2 hours	Lecture Hall-II Block-A
EMOTIONS & MOTIVATION-1 (LEC-2)			
<ul style="list-style-type: none"> • Define emotions as per the current literature. • Classify the different types of human emotions. • Compare the various theories of human emotions. 	LGIS	1 hour	Lecture Hall-II Block-A

PHARMACOLOGY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
DIURETICS-1 (LEC-1)			
<ul style="list-style-type: none"> • Recall structure of 	LGIS	2 Hours	Lecture

<p>nephron.</p> <ul style="list-style-type: none"> Describe the renal transport mechanisms. Define diuretics. Enlist major types of diuretics according to site of action. 			Hall-II Block-A
DIURETICS-2 (LEC-2)			
<ul style="list-style-type: none"> Describe the physiology of acid-base balance. Explain the pathophysiology of nephritic syndrome. Discuss and understand the mechanistic pharmacology of drugs acting on kidneys. 	LGIS	45 minutes	Lecture Hall-II Block-A
DIURETICS-3 (LEC-3)			
<ul style="list-style-type: none"> Discuss and understand the mechanistic pharmacology of drugs acting on kidneys. 	LGIS	1 hour	Lecture Hall-II Block-A

SURGERY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
HISTORY AND EXAMINATION OF UROLOGICAL PATIENTS (LEC-1)			
<ul style="list-style-type: none"> Justify correct steps of recording history from patient. Demonstrate proper steps of examination in patients. Differentiate/Identify common urological diseases depending on history and examination. 	LGIS	2 hours	Lecture Hall-II Block-A
UROLITHIASIS (LEC-2)			
<ul style="list-style-type: none"> Summarize the basic renal and pelvi-calyceal anatomy. Describe different types of stones i.e., radiolucent/radio-opaque. Describe the shape of crystals of various types of stones. Describe the pathophysiology of stone formation. 	LGIS	2 hours	Lecture Hall-II Block-A
URINARY TRACT INFECTION (LEC-3)			
<ul style="list-style-type: none"> Describe UTI and various types of UTI 	LGIS	45 minutes	Lecture Hall-II Block-A

<ul style="list-style-type: none"> Describe pathophysiology of urinary tract infection. Enumerate common organisms causing UTI. 			
HEMATURIA (LEC-4)			
<ul style="list-style-type: none"> Define hematuria. Take pertinent history of patients with hematuria. Enumerate various causes of hematuria. Describe the pathophysiology of hematuria. 	LGIS	1 hour	Lecture Hall-II Block-A
UROLOGICAL TRAUMA (LEC-5)			
<ul style="list-style-type: none"> Summarize clinical anatomy of kidney, ureter, bladder and urethra. Describe ATLS protocol. Enlist signs and symptoms of patient presenting with urological trauma. 	LGIS	45 minutes	Lecture Hall-II Block-A
URINARY RETENTION (LEC-6)			
<ul style="list-style-type: none"> Describe clinical anatomy of bladder, prostate and urethra. Recall proper steps of history taking in a patient with urinary retention. 	LGIS	45 minutes	Lecture Hall-II Block-A

<ul style="list-style-type: none"> Identify a patient with urinary retention on history and examination. Enumerate various causes of urinary retention. 			
BENIGN PROSTATIC HYPERPLASIA (LEC-7)			
<ul style="list-style-type: none"> Describe the clinical anatomy of prostate gland and urethra. Justify proper steps of history taking in patients with lower urinary tract symptoms. Describe the various sign and symptoms in patients with lower urinary tract symptoms. Describe the pathophysiology of benign prostatic hyperplasia. 	LGIS	2 hours	Lecture Hall-II Block-A
URINARY INCONTINENCE-1 (LEC-8)			
<ul style="list-style-type: none"> Define and describe urinary retention. Describe various types of urinary incontinence. 	LGIS	45 minutes	Lecture Hall-II Block-A
URINARY INCONTINENCE-2 (LEC-9)			
<ul style="list-style-type: none"> Follow appropriate steps to formulate a relevant 	LGIS	45 minutes	Lecture Hall-II Block-A

<p>history in patients with urinary incontinence.</p> <ul style="list-style-type: none"> • Enlist causes of urinary retention. 			
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PAEDIATRIC SURGERY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
URETEROPELVIC OBSTRUCTION (LEC-1)			
<ul style="list-style-type: none"> • Recall the brief anatomy of urinary system. • Define the terms hydronephrosis and hydroureter. • Describe Uretopelvic junction obstruction. • Enlist the causes of Uretopelvic junction obstruction. 	LGIS	45 minutes	Lecture Hall-II Block-A
BLADDER EXSTROPHY (LEC-2)			
<ul style="list-style-type: none"> • Describe the brief anatomy and development of urinary bladder. • Make spot diagnosis of bladder exstrophy. • Enlist components of exstrophy. 	LGIS	45 minutes	Lecture Hall-II Block-A

<ul style="list-style-type: none"> Counsel the parent if they come across such type of baby in a society. 			
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MEDICINE			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
INTRODUCTION TO RENAL DISEASES (LEC-1)			
<ul style="list-style-type: none"> Classify different types of renal diseases on the basis of their underlying etiology. Differentiate between AKI and CKD. Describe different methods to assess renal function i-e GFR estimation based on creatinine. Describe different stages of CKD. 	LGIS	45 minutes	Lecture Hall-II Block-A
CLINICAL PRESENTATION OF RENAL DISEASES (LEC-2)			
<ul style="list-style-type: none"> Discuss various clinical presentations of renal diseases. 	LGIS	45 minutes	Lecture Hall-II Block-A
CAUSES OF ANEMIA IN CKD (LEC-3)			
<ul style="list-style-type: none"> Describe various causes of anemia in CKD. 	LGIS	1 hour	Lecture Hall-II Block-A
USEFUL BLOOD TESTS IN RENAL BLOOD DISEASES (LEC-4)			
<ul style="list-style-type: none"> Understand the importance various hematological, 	LGIS	45 minutes	Lecture Hall-II Block-A

biochemical test used to investigate renal diseases.			
OVERVIEW OF ELECTROLYTE ABNORMALITIES IN RENAL FAILURE (LEC-5)			
<ul style="list-style-type: none"> Discuss various electrolytes abnormalities occur in renal failure. 	LGIS	1 hour	Lecture Hall-II Block-A
ANATOMICAL LANDMARKS OF CVP & DL INSERTION (LEC-6)			
<ul style="list-style-type: none"> Identify and describe anatomical landmarks used for CVP / DL catheter insertion. 	LGIS	2 hours	Lecture Hall-II Block-A
OVERVIEW OF HEMODIALYSIS PROCEDURE (LEC-7)			
<ul style="list-style-type: none"> Describe the basic principle and physiology of hemodialysis. 	LGIS	2 hours	Lecture Hall-II Block-A
OVERVIEW OF CALCIUM PHOSPHATE AND VITAMIN D METABOLISM IN RENAL FAILURE (LEC-8)			
<ul style="list-style-type: none"> Discuss different aspects of calcium phosphate Vit. D metabolism in Renal failure 	LGIS	45 minutes	Lecture Hall-II Block-A

NEPHROLOGY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
URINE DETAILED REPORT SAMPLE COLLECTION (LEC-1)			
<ul style="list-style-type: none"> Enlist the indications of urine analysis. 	LGIS	45 minutes	Lecture Hall-II Block-A

<ul style="list-style-type: none"> Describe the method of collection of urine sample. Discuss the physical and chemical examination of urine. 			
PROTEINURIA-1 (LEC-2)			
<ul style="list-style-type: none"> Define proteinuria. Classify proteinuria and list its physiological and pathological causes. 	LGIS	1 hour	Lecture Hall-II Block-A
PROTEINURIA-2 (LEC-3)			
<ul style="list-style-type: none"> Analyze the clinical presentation of proteinuria and possible co-occurring signs, including aspects of the physical examination. Understand the importance of different test used to quantify proteinuria. 	LGIS	1 hour	Lecture Hall-II Block-A

EMERGENCY MEDICINE			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
(LEC-1)			
<ul style="list-style-type: none"> 	LGIS	1 hour	Lecture Hall-II Block-A

RADIOLOGY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE

(LEC-1)			
•	LGIS	1 hour 45 minutes	Lecture Hall-II Block-A
(LEC-2)			
•	LGIS	1 hour	Lecture Hall-II Block-A

GYNAECOLOGY & OBSTETRICS			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
RENAL CHANGES DURING PREGNANCY (LEC-1)			
<ul style="list-style-type: none"> Describe the anatomical changes occurring during normal pregnancy. Discuss the functional changes taking place during pregnancy. Explain the reason of presence of glucose in urine of pregnant women. 	LGIS	45 minutes	Lecture Hall-II Block-A
RENAL DISORDERS IN PREGNANCY (LEC-2)			
<ul style="list-style-type: none"> Enlist the common renal disorders in pregnancy. Discuss the clinical approach of pregnant women with renal disease. Enumerate the fetal and maternal outcome with renal disease in pregnancy. 	LGIS	1 hour	Lecture Hall-II Block-A

PATIENT SAFETY & INFECTION CONTROL			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
(LEC-1)			
•	LGIS	1 hour	Lecture Hall-II Block-A
(LEC-2)			
•	LGIS	45 minutes	Lecture Hall-II Block-A

FAMILY MEDICINE			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
ROLE OF FAMILY PHYSICIANS (LEC-1)			
• Comprehend the role Family physicians in common renal problems.	LGIS	1 hour	Lecture Hall-II Block-A
PRESENTING FEATURES OF RENAL DISORDERS (LEC-2)			
• Discuss common presenting features of renal disorders.	LGIS	1 hour	Lecture Hall-II Block-A

SKILL LAB			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
(LEC-1)			
•	LGIS	2 hours	Lecture Hall-II Block-A

PAKISTAN STUDIES

LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
AIMS & OBJECTIVES OF IDEOLOGY OF PAKISTAN (LEC-1)			
<ul style="list-style-type: none"> Describe and explain the aims & objectives of the Creation of Pakistan. 	LGIS	45 minutes	Lecture Hall-II Block-A
THE IDEOLOGY OF PAKISTAN & QAUID-E-AZAM (LEC-2)			
<ul style="list-style-type: none"> Explain the Ideology of Pakistan in the light of the sayings of the Quaid-e-Azam. 	LGIS	45 minutes	Lecture Hall-II Block-A
THE IDEOLOGY OF PAKISTAN & ALLAMA IQBAL (LEC-3)			
<ul style="list-style-type: none"> Explain the Ideology of Pakistan in the light of sayings of Allama Iqbal. 	LGIS	45 minutes	Lecture Hall-II Block-A
IMPORTANCE OF THE IDEOLOGY OF PAKISTAN (LEC-4)			
<ul style="list-style-type: none"> Explain the importance of the Ideology of Pakistan. 	LGIS	45 minutes	Lecture Hall-II Block-A
TWO NATION THEORY (LEC-5)			
<ul style="list-style-type: none"> Describe the Two Nation Theory. 	LGIS	45 minutes	Lecture Hall-II Block-A

CBL			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
GLOMERULONEPHRITIS (LEC-1)			
<ul style="list-style-type: none"> Describe the morphology of a typical nephron and its blood supply. Define autoregulation and list the major theories 	LGIS	2 hours	Lecture Hall-II Block-A

<p>advanced to explain autoregulation in the kidneys.</p> <ul style="list-style-type: none"> • Define glomerular filtration rate, describe how it can be measured, and list the major factors affecting it. • List the major classes of diuretics; understand how each operates to increase urine flow. • Discuss glomerulonephritis. 			
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DIABETIC KETOACIDOSIS (LEC-2)

<ul style="list-style-type: none"> • What are the basis of acid base regulation in human body? • What are the electrolyte buffer systems present in human body? • List various renal and respiratory mechanisms for acid base regulation. • Describe acid base disorders. • Interpret laboratory findings of various acid base disorders. 	<p>LGIS</p>	<p>2 hours</p>	<p>Lecture Hall-II Block-A</p>
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<ul style="list-style-type: none"> • What are treatment options available for acid base disorders? • Discuss anion gap. 			
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BAQAI MEDICAL COLLEGE
TIME TABLE FOR 2nd YEAR MBBS
RENAL MODULE
Week1

DAYS	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15
DAY 1	ANATOMY Gross feature of kidney-I	PHYSIO Body fluid compartments	Tea break	PHYSIO Osmolarity	BIOCHEMISTRY Regulatory mechanism of fluid and Electrolyte balance	<u>SDL</u>
DAY 2	ANATOMY HISTO Histology of kidney-I	ANATOMY EMBRYO Development of Kidney and excretory System		RESEARCH	SDL	P. Studies
DAY 3	ANATOMY Gross feature of kidney-II	PHYSIO The functions of kidneys		PHYSIO The endocrine functions of kidneys	<u>SDL</u>	Anatomy LRC
DAY 4	ANATOMY EMBRYO Development of collecting system	PHYSIO Juxta glomerular apparatus		SDL	BIOCHEMISTRY Water and electrolyte imbalance-1	PEARLS
DAY 5	PHYSIO GFR+filtration+ Factors	PATHO Introduction to renal disease		PHYSIO GFR+filtration+ Factors	SDL	MEDICINE Glomerular nephritis

	affecting GFR-I			affecting GFR-II		
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**BAQAI MEDICAL COLLEGE
TIME TABLE FOR 2nd YEAR MBBS
RENALMODULE**

Week 2

DAYS	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
DAY 6	PHYSIO Renal autoregulation-tubuloglomerular, myogenic		Tea break	BIOCHEMISTRY introduction to protein metabolism	SDL	FORMATIVE QUIZ	Lunch & Prayer	ANATOMY Small group teaching (Demonstration of kidney models)
DAY 7	PHYSIO Tubular reabsorption			BIOCHEMISTRY catabolism of amino acids	Physio Hormones acting on Kidney + Tubular reabsorption	P. Studies		PHYSIO Counter current mechanism-I
DAY 8	ANATOMY LRC			COMMUNITY Sources of water	PHYSIO Counter current mechanism-II	PEARL		BIOCHEMISTRY urea formation
DAY 9	ANATOMY Gross feature of kidney-III	ANATOMY EMBRYO Developmental anomalies of kidney		PRACTICAL A,B& C (Histology) slide of Kidney (BIOCHEMISTRY) spectrophotometry (Physiology) Working principle of pH meter		PATHOLOGY Nephritic and Nephrotic syndrome		BIOCHEMISTRY fate of carbon skeletons of amino acids
DAY 10	BIOCHEMISTRY Renal Function Tests-I	MEDICINE Clinical presentation of		PRACTICAL A,B& C (Histology) slide of Kidney (BIOCHEMISTRY) spectrophotometry (Physiology) Working principle of pH meter		12:30-1:15 BIOETHICS		PRACTICAL A,B& C (Histology) slide of Kidney (BIOCHEMISTRY) spectrophotometry

		renal disease						(Physiology) Working principle of pH meter
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BAQAI MEDICAL COLLEGE
TIME TABLE FOR 2nd YEAR MBBS
RENALMODULE
Week 3

DAYS	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
DAY 11	ANATOMY HISTOLOGY Histology of KIDNEY-II	ANATOMY URETER	Tea break	Physio Role of ADH in the formation of urine		<u>SDL</u>	L u n c h & P r a y e r	ANATOMY URINARY BLADDER
DAY 12	ANATOMY URETHRA	PHYSIO Renal regulation of acid base balance		SURGERY Urinary incontinence	Physio SGT	Gynaec/Obs renal changes during pregnancy		BIOCHEMISTRY Renal Function Tests-II
DAY 13	Physio Micturition reflex			COMMUNITY Medicine water quality indicators	<u>SDL</u>	BEHAVIORAL SCIENCE S Counselling of renal calculi		BIOCHEMISTRY Renal Function Tests-III
DAY 14	PHARMACY Diuretics I	ANATOMY LRC		PRACTICAL A,B& C Histology Slide of URETER BIOCHEMISTRY		<u>SDL</u>		ANATOMY HISTOLOGY URINARY BLADDER AND URETHRA

				analysis of inorganic constituents of urine Physiology Estimation of urine PH		
DAY 15	Physiology SGT	Medicine Nephrology investigation of renal disease		PRACTICAL A,B & C Histology Slide of URETER BIOCHEMISTRY Physiology: Estimation of urine PH	P.STUDY	PRACTICAL A,B & C Histology Slide of ureter BIOCHEMISTRY Physiology: Estimation of urine PH

BAQAI MEDICAL COLLEGE
TIME TABLE FOR 2nd YEAR MBBS
RENALMODULE
Week 4

DAYS	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
DAY 16	PHYSIO Renal Clearance		Tea break	BIOCHEMISTRY Renal Function Tests-IV		PEARL	L u n c h & P r a y e r	SDL
DAY 17	BIOCHEMISTRY Nucleotide Metabolism-I			Gynae/Obs abnormal renal functions in pregnancy	PHARM A Diuretics 2	P.STUDY		ANATOMY SGT
DAY 18	EMBRYO Development of urinary bladder, ureter and urethra			PATHO Nephritic and nephritic syndrome	SURGERY Bladder stones	PHYSIOLOGY SGT		SDL
DAY 19	BIOCHEMISTRY Nucleotide Metabolism-II			PRACTICAL A,B&C Histology BIOCHEMISTRY		SDL		BIOCHEMISTRY <u>FORMATIVE ASSESSMENT</u>

			Practical Physiology: PPT		
DAY 20	PHYSIO PPT	COMM. MED Water Pollution	PRACTICAL A,B & C Histology BIOCHEMISTRY analysis of organic constituents of urine Physiology: PPT	SDL	PRACTICAL A,B & C Histology BIOCHEMISTRY Practical Physiology: PPT

BAQAI MEDICAL COLLEGE
TIME TABLE FOR 2nd YEAR MBBS
RENALMODULE
Week 5

DAYS	8:30-9:15	9:15-10:00	10:00-10:45	10:45-11:30	11:30-12:15	12:15-1:00	1:15-1:30	1:30-3:30
DAY 21	BIOCHEMISTRY Nucleotide Metabolism-III		SURGERY UTI	BEHAVOURAL SCIENCES	SGT A,B& C ANATOMY PHYSIOLOGY BIOCHEMISTR		Lunch & Prayer	PHYSIO SGT
DAY 22	BIOCHEMISTRY Nucleotide Metabolism-IV	MEDICINE Overview of AKI & CKD staging	COMM. MED Formative Assessment	SGT A,B& C ANATOMY PHYSIOLOGY BIOCHEMISTR		FORMATIVE ASSESSMENT Anatomy		
DAY 23	SGT A,B& C ANATOMY PHYSIOLOGY BIOCHEMISTR		PRACTICAL A,B& C Histology slide of bladder BIOCHEMISTRY Estimation of serum urea Physiology: PPT		Anatomy LRC	SDL		BIOCHEMISTRY Nucleotide Metabolism-V
DAY 24	PAKISTAN DAY							PAKISTAN DAY

DAY 25	PRACTICAL A,B& C Histology slide of bladder BIOCHEMISTRY Estimation of serum urea Physiology : PPT	PRACTICAL A,B& C Histology slide of bladder BIOCHEMISTRY Estimation of serum urea Physiology : PPT	SDL	OFF
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BAQAI MEDICAL COLLEGE
TIME TABLE FOR 2nd YEAR MBBS
RENALMODULE
Week 6

DAYS	8:30-9:15	9:15-10:00	10:00-10:45	10:45-11:30	11:30-12:15	12:15-1:00	1:00-1:45
DAY 26	ANATOMY PROSTATE	SURGERY BPH	SGT A,B& C ANATOMY PHYSIOLOGY BIOCHEMISTRY		PHYSIO SGT	ANATOMY SGT	
DAY 27	ANATOMY EMBRYO PROSTATE	ANATOMY HISTOLOGY PROSTATE	SGT A,B& C ANATOMY PHYSIOLOGY BIOCHEMISTRY		P.STUDIES	SDL	
DAY 28	SGT A,B& C ANATOMY PHYSIOLOGY BIOCHEMISTRY		PHYSIO PPT	ANATOMY	PATHOLOGY Renal Stone	Surgery Renal Stone	
DAY 29	ANATOMY (Demonstration of urinary bladder, ureters and urethra models		PRACTICAL A,B& C Histology slide of urethra BIOCHEMISTRY Estimation of serum creatinine Physiology : PPT		SDL		
DAY 30	PRACTICAL A,B& C Histology slide of urethra BIOCHEMISTRY Estimation of serum creatinine Physiology: PPT		PRACTICAL A,B& C Histology slide of urethra BIOCHEMISTRY Estimation of serum creatinine Physiology: PPT		SDL		

BAQAI MEDICAL COLLEGE
TIME TABLE FOR 2nd YEAR MBBS
RENALMODULE

Week 7

DAYS	8:30-9:15	9:15-10:100	10:00-10:45	10:45-11:30	11:30-12:15	12:15-1:00	1:00 - 1:15	1:15-2:00	
Day 31	ANATOMY POSTERIOR ABDOMINAL WALL		INFECTI ON CONTRO L	SDL	COMM UNITY MEDIC INE PPT	ANAT OMY VERTE BRAE I	Lunch & Prayer	ANATOMY VERTEBRAE II	
Day 32	SHAHEED ZULFIQAR BHUTTO								
Day 33	ANATO MY Surface Anat. Urinary system	BIOCHE M PPT	COMMU NITY MEDICI NE Formative Assessme nt	SGT A,B & C ANATOMY PHYSIOLOGY BIOCHEMISTR Y		SDL		<u>FORMATIVE ASSESSMENT</u>	
Day 34	SGT A,B& C ANATOMY PHYSIOLOGY BIOCHEMISTRY		PRACTICAL A,B& C Histology slide of prostate BIOCHEMISTRY interpretation of serum urea & creatinine values Physiology : PPT		ANATOMY LRC			PRACTICAL A,B& C Histology slide of prostate BIOCHEMISTR Y interpretation of serum urea & creatinine values Physiology : PPT	
Day 35	SGT A,B& C ANATOMY PHYSIOLOGY BIOCHEMISTRY		PRACTICAL A,B& C Histology slide of prostate BIOCHEMISTRY interpretation of serum urea & creatinine values Physiology : PPT		SDL	OFF			

Distribution and Duration* of Teaching Activities Amongst Different Disciplines

S. No.	Disciplines	Large Group Interactive Session	Small Group Interactive Session		Total hours
			Lectures	SGT	
1.	Anatomy	20.45	7.45	10	38.30
2.	Physiology	19.45	1.30	6	27.15
3.	Biochemistry	16	0	10	26
4.	Pharmacology	3.45			3.45
5.	Pathology	6.30			6.30
6.	Com. Med	3			3
5.	Research	4			4
6.	Family Medicine	2			2
7.	Medicine	9			9
8.	Nephrology	2.45			2.45
9.	Emergency medicine	1			1
10.	Radiology	2.45			2.45
11.	Surgery	10.45			10.45
12.	Paediatric surgery	1.30			1.30
13.	Gynae & Obs	1.45			1.45
14.	Behavioral sciences	3			3
15.	Ethics	0.45			0.45
16.	PEARLS	2.15			2.15
17.	Patient safety	1			1

18.	Infection control	0.45		0.45
19.	Skill Lab	2		2
20.	CBL		4	4
21.	SDL	16		16
22.	Islamiat	0		0
23.	Formative Assessment	6.45		6.45

* calculated in hours

Assessment Type:

Summative Assessment

- SEQs
- MCQs
- OSPE