

## King Saud University

### College of Medicine

## General Outline of Curriculum Development 2009

### **Mission Statement**

To prepare physicians who would be able to meet and respond to the changing health care needs and expectations of the Saudi Arabian community.

### **Overall Goals:**

1. To develop doctors who possess knowledge, skills and attitudes that will insure that they are competent to practice Medicine safely and effectively
2. To ensure that graduates have appropriate foundation for life long learning and further training in any branch of Medicine.
3. To help graduates develop to be critical thinkers and problem solvers when managing health problems in the community of Saudi Arabia

### **Specific Objectives of the curriculum:**

#### A. Objectives relating to knowledge

Graduates completing our program will have sufficient knowledge in the following:

K1. Scientific method relevant to biological, behavioral and social sciences at a level sufficient to understand the basis for present medical practice and to assimilate the advances in knowledge that will occur over their working life.

K2. The normal structure, function and development of the human body and mind at all stages of life, the interactions between body and mind, and the factors that may disturb these.

K3. The etiology, pathology, symptoms and signs, natural history and prognosis of common mental and physical illnesses in children, adolescents, adults and the aged.

K4. Common diagnostic procedures, their uses and limitations.

K5. Management of common conditions including pharmacological, physical, nutritional and psychological therapies.



K6. Cultural and social factors affecting human relationships, the psychological well – being of patients and their families, and the interactions between humans and their social and physical environment.

K7. The principles of ethics that relate to health care and the legal responsibilities of the medical profession.

B. Objectives relating to skills:

Graduates completing our program will have developed the following skills to an appropriate level for their stage of training:

- S1. The ability to take a tactful, organized and problem-focused medical history.
- S2. The ability to perform an accurate physical and mental state examination.
- S3. The ability to choose the appropriate and practical clinical skills to apply in a given situation.
- S4. The ability to interpret and integrate the history and physical examination findings to arrive at an appropriate diagnosis or differential diagnosis.
- S5. The ability to select the most appropriate and cost effective diagnostic procedures.
- S6. The ability to formulate a management plan
- S7. The ability to communicate clearly, considerately and sensitively with patients, relatives, doctors, nurses, other health professionals and the community.
- S8. The ability to counsel sensitively and effectively and to provide information in a manner that ensures patients and families can be truly informed when consenting to any procedure.
- S9. The ability to recognize serious illness and to perform common emergency and life-saving procedures such as caring for the unconscious patient and cardiopulmonary resuscitation.
- S10. The ability to educate patients and others in promoting health and preventing disease

S11. The ability to interpret medical evidence in a critical and scientific manner and to use libraries and other information resources to pursue independent inquiry relating to medical problems.

S12. The ability to be an active independent learner, able to seek out information, to critically analyze it, and apply it to scientific reasoning for the purpose of solving clinical problems

C. Objectives relating to attitudes:

During basic medical education, students should acquire the following professional attitudes, which are regarded as fundamental to medical practice:

A1: Adherence to the Islamic ethical code in dealing with patients, relatives, and colleagues.

A2: Understanding the Islamic guidance surrounding health and illness

A3. Respect for every human being with an appreciation of the diversity of human background and cultural values.

A4. A recognition and consideration of the personal need of each patient as well as the family and social environment when managing clinical problems

A5. A desire to ease pain and suffering.

A6. An awareness of the need to communicate with patients and their families and to involve them fully in planning management of their condition.

A7. A desire to achieve the optimal patient care for the least cost to allow maximum benefit from the available resources.

A8. Recognition that the health interests of the patient and the community are paramount.

A9. A willingness to work effectively in a team with other health care professionals.

A10. An appreciation of the responsibility to maintain standards of medical practice at the highest possible level throughout a professional career.

A11. An appreciation of the need to recognize when a clinical problem exceeds their capacity to deal with it safely and efficiently and of the need to refer the patient for help from others when this occurs.

A.12 An appreciation of the contribution of research to the evolution of Medicine

A13. Adherence to the ethical code of research in Medicine

### **General Features of the curriculum**

- It prepares students to be life long learners by adopting a gradual student-centered approach
- Where appropriate, it adopts new and internationally approved methods in medical education
- It is run by a multidisciplinary team of educators and clinicians
- It is responsive to Saudi societal and community needs and expectations
- Its is delivered in a horizontally and vertically integrated multidisciplinary fashion
- Where appropriate, it uses small group and problem-based learning
- It makes effective use of available resources including the skills lab and e-learning
- It is responsive to student's personal and academic needs by including 3 hours of elective in years 4 and 5. These course are mostly student designed.
- It is in continuous review and improvement
- Student assessment is centralized and outcome driven

### **GENERAL SCHEME AND PHASES**

<b>PHASES</b>	<b>DESCRIPTION</b>	<b>YEARS</b>
Preparatory year	<ul style="list-style-type: none"><li>• Handled by the preparatory year administration at the university</li><li>• Bridges the gap between high schools and college education systems</li></ul>	1
Basic integrated human systems	Integrated basic science and clinical problems and cases approach to major body systems	2 and 3
Foundation of clinical Medicine	<ul style="list-style-type: none"><li>• Basic clinical skills and patients interactions</li><li>• Basic knowledge in community medicine, internal Medicine and general surgery</li></ul>	4
Clinical clerkships	Rotations in major clinical specialties with real life exposure to clinical practice	5 and 6
Internship	Internship	7

### **PHASE 1: Preparatory Year**

<b>COURSE</b>	<b>COURSE NAME</b>	<b>CREDIT HOURS</b>
First semester		
	Computer skills	3
	Principles of math	2
	Communication skills	2
	English 1	8
Second semester		
	Medical statistics	2
	Biology	3
	General physics	3
	Organic chemistry	2
	English for medical fields	8

**PHASE 2: Basic integrated human systems**

COURSE	COURSE NAME	DURATION	CREDIT HOURS
Year 1			
	Learning Skills	Longitudinal over the year	2
	Foundation	10 weeks	10
	Cardiovascular	7 weeks	7
	Respiratory	4 weeks	4
	Renal	4 weeks	4
	Musculoskeletal	6 weeks	6
	Islamic studies 1	First semester	2
	Islamic studies 2	Second semester	2
			<b>37</b>
Year 2			
	Professionalism	Longitudinal over the year	6
	CNS/Special senses/Mental health	12 weeks	12
	Gastrointestinal	4 weeks	4
	Reproductive	6 weeks	6
	Endocrine	6 weeks	6
	Islamic studies 1	First semester	2
	Islamic studies 2	Second semester	2
			<b>38</b>

- \* <sup>small</sup> disc. room. "Cases as stories"
- \* Skill lab.
- \* involving student → → Doc.

General block design:



Each block contains:

- Didactic (not more than 10 didactic sessions per week)
- Small group case base learning (2 sessions per week).

The cases represent actual patient's presentations with common medical problems. The cases are used to discuss common basic science and pathophysiology concepts that are taught during the block. Many cases are accompanied by simulated patients with which the students can interact.

- Self directed learning ( 2 sessions per week)

These sessions are planned with clear learning objectives. They include preparing for case discussions, search of assigned questions, preparation of small projects, or extra sessions in the skills lab.

- Skills lab sessions with simulated patients exposure (2 sessions per week)

Each block is run by a committee formed of: an anatomists, physiologists, biochemist, pharmacologist, and two clinicians.

### **PHASE 3: Foundation of Clinical Medicine**

COURSE	COURSE NAME	CREDIT HOURS
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395 CMED	Medical Ethics	3
304 CMED	Medical Research	6
	Health Informatics	2
311 COMM	Community Medicine	4
321 FORM	Forensic Medicine and Toxicology	2
341 MED	Internal Medicine	10
351 SURG	General Surgery	8
365 RAD	Medical Radiology	2
		<b>37</b>

**PHASE 4 (Clinical clerkships)**

COURSE	COURSE NAME	CREDIT HOURS
044 CMED	Clinical Practice	4
452 SURG	Orthopedics	6
421 COMM	Primary Health Care	6
431 ORL	ENT	4
432 OPT	Ophthalmology	4
393 DEM	Dermatology	2
462 PSYG	Psychiatry	4
481 GYN	OB/GYN	8
441 MED	Internal Medicine	10
451 SURG	General Surgery and anesthesiology	10
473 PED	Pediatrics	10
	Medical elective 1	3
	Medical elective 2	3
		<b>74</b>

**PHASE 5: Internship**

*with the year - elective*  
*research → self directed learning*

Rotation	Duration
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Internal Medicine	8 weeks
Surgery	8 weeks
Ob/GYN	8 weeks
Pediatrics	8 weeks
Emergency Medicine	8 weeks
Elective	8 weeks

<b>Week 1 - FOUNDATION BLOCK</b>				
<b>Saturday</b>	<b>Sunday</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>
8:00 - 9:00 am ORIENTATION	8:00 - 9:00 am ORIENTATION	8:00 - 9:00 am Histological Microtechnique; Cell Structure (Histology)	8:00 - 9:00 am Nervous System (Anatomy)	8:00 - 9:00 am Introduction (Pathology)

9:10 - 10:10 am ORIENTATION	ORIENTATION	9:10 - 10:10 am Cell Membrane Structure and Transport Across Cell Membrane (Physiology)	9:20 - 11:00 am Small group discussion	10:25 - 11:20 am Epithelial Tissues (Histology)
10:20 - 11:20 am ORIENTATION	11:00 - 12:30 am ORIENTATION	10:20 - 11:20 am Practical Histological Microtechnique; Cell Structure (Histology)	11:00 - 12:30 am Independent learning	9:10 - 10:10 am Body Fluids and Electrolytes (Physiology)
11:30 - 12:30 pm ORIENTATION		11:30 - 12:30 Skeletal Muscles and Joint (Anatomy)		11:30 - 12:30 pm Practical Epithelial Tissue (Histology)
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm ORIENTATION	1:30-3:00 Salam ORIENTATION	1:30 - 3:40 pm Practical Skeletal Muscles and Joint (Anatomy)	1:30 - 3:40 pm Practical Nervous System (Anatomy)	1:30-3:00Salam

Week 2 - FOUNDATION BLOCK				
Saturday	Sunday	Monday	Tuesday	Wednesday

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8:00 - 9:00 am Connective Tissue Proper (Histology)	8:00 - 9:00 am Gametogenesis; Ovarian and Uterine Cycles (Embryology)	8:00 - 9:00 am Cartilage and Bone (Histology)	8:00 - 9:00 am Bacterial Structure and Genetics (Microbiology)	8:00 - 9:00 am Muscular Tissue (Histology)
9:10 - 10:10 am Practical Connective Tissue Proper (Histology)	9:20 - 11:00 am Small group discussion	9:10 - 10:10 am Erythropoiesis (Physiology)	9:20 - 11:00 am Small group discussion	9:10 - 10:10 am Fertilization and Implementation (Embryology)
10:20 - 11:20 am Composition and Function of Blood(Physiology)	11:00 - 12:30 am Independent Learning	10:20 - 11:20 am Practical Cartilage and Bone (Histology)	11:00 - 12:30 am Independent learning	10:25 - 11:20 am Practical Muscular Tissue (Histology)
11:30 - 12:30 Learning Skills (Levels of Learning)		11:30 - 12:30		11:30 - 12:30 Learning skills (Time Management & Planning Study Time)
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm Blood Practical Class 1 (Physiology)	Salam	1:30 - 3:40 pm independent learning	1:30 - 3:40 pm Tutorials on Blood Erythropoiesis (Physiology)	Salam

Week 3 - FOUNDATION BLOCK				
Saturday	Sunday	Monday	Tuesday	Wednesday

8:00 - 9:00 am Control of Erythropoiesis, Iron Metabolism and Hemoglobin (Physiology)	8:00 - 9:00 am Free Radical Injury; Types of Necrosis; Apoptosis (Pathology)	8:00 - 9:00 am Nervous Tissue (Histology)	8:00 - 9:00 am Bacterial Physiology and Growth (Microbiology)	8:00 - 9:00 am Lymphoid Tissue (Histology)
9:10 - 10:10 am Adaptation to Environmental Stress and Hypoxic Cell Injury (path)	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am Apoptosis (Pathology)	9:20 - 11:00 am Small group discussion	9:10 - 10:10 am Bilaminar and Trilaminar Discs and Their Derivatives
10:20 - 11:20 am Enzymes and co-enzymes 1 (Bio)	11:00 - 12:30 am Independent Learning	10:20 - 12:20 am Practical Nervous Tissue (Histology)	11:00 - 12:30 am Independent learning	10:25 - 11:20 am Practical Lymphoid Tissue (Histology)
11:30 - 12:30 Independent Learning				11:30 - 12:30 pm Enzymes and co enzymes 2 (Bio)
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm	Salam	1:30 - 3:40 pm	1:30 - 3:40 pm Practical pathology 1	Salam

**Week 4 - FOUNDATION BLOCK**

Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am White Blood Cells (Physiology)	8:00 - 9:00 am Pathologic Classifications (Pathology)	8:00 - 9:00 am Amyloidosis (Pathology)	8:00 - 9:00 am Host-Parasite Relationship (Microbiology)	8:00 - 9:00 am Human Chromosomes: Genotypes/Phenotypes (Human Genetics) (Biochemistry)
9:10 - 10:10 am Reversible Cellular Changes and Accumulations (Pathology)	9:20 - 11:00 am Small group discussion	9:10 - 10:10 am Molecular Mechanisms of Drugs (Pharmacology)	9:20 - 11:00 am Small group discussion	9:10 - 10:10 am Quantitative Aspects of Drug Actions (Pharmacology)
10:20 - 11:20 am Introduction to Metabolism (Anabolism and Catabolism 1) (Biochemistry)	11:00 - 12:30 am Independent learning	10:20 - 11:20 am Classifications of Parasites and Protozoa (Microbiology)	11:00 - 12:30 am Independent learning	10:20 - 12:20 am Introduction to Metabolism (Anabolism and Catabolism 2&3) (Biochemistry)
11:30 - 12 :30 pm Learning Skills ( Active and Passive Learning )		11:30 - 12 :30 pm Learning Skills (Active Review for Remembering )		
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm Blood Practical 2 (Physiology)	Salam	1:30 - 3:40 pm Tutorial Body Defense Mechanism (Physiology)	1:30 - 3:40 pm Practical pathology 2	Salam

**Week 5 - FOUNDATION BLOCK**



Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am Blood Groups and Blood Transfusion (Physiology)	8:00 - 9:00 am All response to Leukocytosis (Pathology)	8:00 - 9:00 am Outcomes of Acute Inflammation (Pathology)	8:00 - 9:00 am Gram Positive Bacteria (+), Gram Negative bacteria (Microbiology)	8:00 - 9:00 am Mode of Inheritance (Human Genetics) (Biochemistry)
9:10 - 10:10 am Definition of Inflammation; Acute Inflammation (Pathology)	9:20 - 11:00 am Small group discussion	9:10 - 10:10 am Receptors Families (Pharmacology)	9:20 - 11:00 am Small group discussion	9:10 - 10:10 am Desensitization, Tachyphylaxis, and Adverse Drug Reactions (Pharmacology)
10:20 - 11:20 am Cell Signaling and regulation of Metabolism 1 (Biochemistry)	11:00 - 12:30 am Independent Learning	10:20 - 11:20 am Nematodes, Trematodes, Cestodes, Arthropodes as agents and vectors of diseases. (Microbiology)	11:00 - 12:30 am Independent learning	10:20 - 11:20 am Cell Signaling and regulation of Metabolism 2 (Biochemistry)
11:30 - 12:30 Learning Skills (Cornell Notes – A System for Learning )		11:30 - 12:30 pm		11:30 - 12:30 pm Learning Skills (Recitation Mini- lecture )
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm Blood Practical 3 (Physiology)	Salam	1:30 - 3:40 pm Tutorial on Blood (Physiology)	1:30 - 3:40 pm Practical pathology 3	Salam

**Week 6 - FOUNDATION BLOCK**

Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am Homeostasis (Physiology)	8:00 - 9:00 am Pharmacokinetics (Pharmacology)	8:00 - 10:00 am Tissue Repair (Pathology)	8:00 - 9:00 am Anaerobic Bacteria (Microbiology)	8:00 - 9:00 am Mutations vs. Polymorphisms (Genetics)(Biochemistry)
9:10 - 10:10 am Chronic Inflammation; Patterns of Chronic Inflammation (Pathology)	9:20 - 11:00 am Small group discussion		9:20 - 11:00 am Small group discussion	9:10 - 10:10 am Drug Absorption and Bioavailability (Pharmacology)
10:20 - 11:20 am Introduction to Molecular Biology (Nucleotides, DNA, RNA and DNA Language 1) (Biochemistry)	11:00 - 12:30 am Independent learning	10:20 - 11:20 am The Fungi and their Pathogenesis (Microbiology)	11:00 - 12:30 am Independent learning	10:25 - 11:20 am The Lymphoid System, Development of Lymphocytes and Generation of Receptor Diversity (Immunology)
11:30 - 12:30 Learning Skills (Reading Efficiently and Effectively )		11:30 - 12:30 Learning Skills (Reading Methods )		11:20 - 12:20 am Introduction to Molecular Biology ( DNA, RNA and DNA 2) (Biochemistry)
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm Physiology Tutorial Intrinsic and Extrinsic Mechanisms of Coagulation Bleeding and Clotting Disorders	Salam	1:30 - 3:40 pm	1:30 - 3:40 pm Practical pathology 4	Salam

Week 7 - FOUNDATION BLOCK				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am Definition and Mechanisms of Granuloma Formation; Causes (Pathology)	8:00 - 9:00 am Drug Distribution and Excretion (Pharmacology)	8:00 - 9:00 am Leprosy (Pathology)	8:00 - 9:00 am Mycobacteria (Microbiology)	8:00 - 9:00 am Diagnosis of Genetic Diseases (Genetics) (Biochemistry)
9:10 - 10:10 am Tuberculosis (Pathology)	9:20 - 11:00 am Small group discussion	9:10 - 10:10 am Sarcoidosis and Leishmaniasis, Schistosomiasis (Pathology)	9:20 - 11:00 am Small group discussion	9:10 - 10:10 am Drug Metabolism (Pharmacology)
10:20 - 11:20 am Molecular Techniques 1 (Biochemistry)	11:00 - 12:30 am Independent learning	10:20 - 11:20 am Diversity of Pathogenic Molds; Diversity of Pathogenic Yeasts	11:00 - 12:30 am Independent learning	10:25 - 11:20 am Non Specific Body Mechanisms; The Complement System (Immunology)
11:30 - 12:30 pm Learning Skills (Preparing for Examinations )		11:30 - 12:30 Learning Skills (Stress Management and Exam Anxiety )		11:30 - 12:30 pm Molecular Techniques 2 (Bio)
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm Practical pathology 5	Salam	1:30 - 3:40 pm Practical Guinea Pig (Pharmacology)	1:30 - 3:40 pm Practical pathology 6	Salam

Week 8 - FOUNDATION BLOCK				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am Properties of Neoplasm (Pathology)	8:00 - 9:00 am Cholinergic and Anticholinergic Drug (Pharmacology)	8:00 - 10:00 am Carcinogenesis Aetiology (Pathology)	8:00 - 9:00 am Normal Flora (Microbiology)	8:00 - 9:00 am Genetic Counseling (Genetics) (Biochemistry)
9:10 - 10:10 am Classification of Tumors	9:20 - 11:00 am Small group discussion		9:20 - 11:00 am Small group discussion	9:10 - 10:10 am Antibody Mediated Immunity (Immunology)
10:20 - 11:20 am Biochemical Markers for Diagnosis and Follow up of Diseases 1 (Biochemistry)	11:00 - 12:30 am Independent learning	10:20 - 11:20 am Cell-Mediated Immunity (Immunology)	11:00 - 12:30 am Independent learning	10:25 - 11:20 Structure Classification and Replication of Viruses (Virology)
11:30 - 12:30 Learning Skills ( Study Groups )		11:30 - 12:30 Independent Learning		11:30 - 12:30 pm Independent Learning
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm Practical pathology 7	Salam	1:30 - 3:40 pm Practical The Rabbit Eye (Pharmacology)	1:30 - 3:40 pm Practical pathology 8	Salam

Week 9 - FOUNDATION BLOCK				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am Hypersensitivity Reactions Types I, II, III, IV(Immunology)	8:00 - 9:00 am Adrenergic and Antiadrenergic Drugs (Pharmacology)	8:00 - 9:00 am Antibiotics (Microbiology)	8:00 - 9:00 am Sterilization and Disinfection (Microbiology)	8:00 - 9:00 am Immune Deficiency Disorders (Immunology)
9:10 - 10:10 am Biochemical Markers for Diagnosis and Follow up of Diseases 2 (Biochemistry)	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am Antibiotics (Microbiology Practical)	9:20 - 11:00 am Small group discussion	9:10 - 10:10 am Immune Deficiency Disorders (Immunology)
10:20 - 11:20 am Independent Learning	11:00 - 12:30 am Independent learning	10:20 - 11:20 am Independent learning	11:00 - 12:30 am Independent learning	10:25 - 11:20 Viral Pathogenesis (Virology)
11:30 - 12:30 pm Independent Learning		11:30 - 12:30 Independent learning		11:30 - 12:30 Independent learning
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm	Salam	1:30 - 3:40 pm	1:30 - 3:40 pm Practical pathology 9	Salam

Week 10 - FOUNDATION BLOCK (EXAMINATION WEEK)				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am )	8:00 - 9:00 am)	8:00 - 9:00 am)	8:00 - 9:00 am)	8:00 - 9:00 am
9:10 - 10:10 am	9:20 - 11:00	9:10 - 10:10)	9:20 - 11:00 am	9:10 - 10:10 am
10:20 - 11:20 am	11:00 - 12:30	10:20 - 11:20 am	11:00 - 12:30 am	10:25 - 11:20
11:30 - 12:30 pm		11:30 - 12:30		11:30 - 12:30
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm	Salam	1:30 - 3:40 pm	1:30 - 3:40 pm	Salam

<b>WEEK 1 – CARDIOVASCULAR BLOCK</b>				
<b>Saturday</b>	<b>Sunday</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>
<b>8:00 - 9:00 am</b> Introduction to the Cardiovascular Block	<b>8:00 - 9:00 am</b> Properties of the Cardiac Muscle & Action Potentials in Cardiac Muscle	<b>8:00 - 9:00 am</b> Conductive System of the Heart	<b>8:00 - 9:00 am</b> Anti-Arrhythmic Agents 2	<b>8:00 - 9:00 am</b> Anti-Arrhythmic Agents 4
<b>9:10 - 10:10 am</b> Structure of the Heart, the Heart Valves & the Histology of the Cardiac Muscle Fibers	<b>9:20 - 11:00 am</b> Small Group Discussion	<b>9:10 - 10:10 am</b> Anti-Arrhythmic Agents 1	<b>9:20 - 11:00 am</b> Small Group Discussion	<b>9:10 - 10:10 am</b> Cardiac Properties (Applied Physiology) e.g. Heart block, Starling's law, Extra Systoles etc.
<b>10:20 - 11:20 am</b> Independent learning	<b>11:00 - 12:30 am</b> Independent learning	<b>10:20 - 11:20 am</b> Independent learning	<b>11:00 - 12:30 am</b> Independent learning	<b>10:25 - 11:20 am</b> Independent learning
<b>11:30 - 12:30 pm</b> Radiological Anatomy of Mediastinum	<b>11:30 - 12:30</b> Independent Learning	<b>11:30 - 12:30</b> Independent Learning	<b>11:30 - 12:30</b> Independent Learning	<b>11:30 - 12:30 pm</b> Radiological Anatomy of Mediastinum
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
<b>1:30 - 2:30 pm</b> ATP Production by Cardiac Muscle	Salam	<b>1:30 - 3:40 pm</b> (Practical) Anatomy of the Cardiovascular System	<b>1:30 - 3:30 pm</b> Anti-Arrhythmic Agents 3	Salam

WEEK 2 – CARDIOVASCULAR BLOCK				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am <b>Lecture:</b> Definition and different phases of the cardiac cycle i. Pressure changes during the cycle (Atrial, ventricular, aortic and pulmonary) ii. Volume changes during the cycle	8:00 - 9:00 am <b>Lecture: The Cardiac Cycle (Applied Physiology):</b> Jugular, Cardiac and Other Arterial Pulsations	8:00 - 9:00 am <b>Lecture:</b> Normal Electrocardiogram	8:00 - 9:00 am <b>Lecture:</b> Management of Acute and Chronic Heart Failure 1	8:00 - 9:00 am <b>Lecture:</b> Management of Acute and Chronic Heart Failure 2
9:10 - 10:10 am <b>Lecture:</b> Heart Sounds and Murmur	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am <b>Lecture:</b> Interpretation of Normal ECG	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am <b>Lecture:</b> Management of Acute and Chronic Heart Failure 3
10:20 - 11:20 am <b>Lecture:</b> Oxidative Stress and Antioxidants 1	11:00 - 12:30 am Independent Learning	10:20 - 11:20 am <b>Lecture:</b> Oxidative Stress and Antioxidants 2	11:00 - 12:30 am Independent Learning	10:25 - 11:20 am <b>Lecture:</b> Lactic Acidosis
11:30 - 12:30 pm Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 pm Independent Learning
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm <b>Practical :</b> Heart Sounds	Salam	1:30 - 3:40 pm <b>Practical :</b> The Electrocardiogram ECG	1:30 - 3:40 pm Independent Learning	Salam





WEEK 3 – CARDIOVASCULAR BLOCK				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am <b>Lecture:</b> Major Vessels	8:00 - 9:00 am <b>Lecture:</b> Venous Return Curves: Jugular Venous Pulse (Causes and Clinical Importance)	8:00 - 9:00 am <b>Lecture:</b> Cardiac output: Definition, Methods of Measurement & Factors Controlling Cardiac Output	8:00 - 9:00 am <b>Lecture:</b> Physiological Variations Affecting Blood Pressure	8:00 - 9:00 am <b>Lecture:</b> Factors that determine the normal B.P. e.g. Heart Rate, Stroke Volume, Blood Volume
9:10 - 10:10 am <b>Lecture:</b> Venous Circulation and Factors Affecting Venous Return	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am <b>Lecture:</b> Preload, After load, Contractility & Cardiac Function	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am <b>Lecture:</b> Peripheral Resistance (Diameters of Arterioles and Blood Viscosity) and Elasticity of Aorta and Large Blood Vessels
10:20 - 11:20 am Independent Learning	11:00 - 12:30 am Independent Learning	10:20 - 11:20 am Independent Learning	11:00 - 12:30 am Independent Learning	10:25 - 11:20 am Independent Learning
11:30 - 12:30 pm Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 pm Independent Learning
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm <b>Practical:</b> Arterial Blood Pressure	Salam	1:30 - 3:40 pm <b>Practical:</b> Pharmacology Blood Pressure	1:30 - 3:40 pm Skill Lab (Normal Heart Sound)	Salam

WEEK 4 – CARDIOVASCULAR BLOCK				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am Mid Block Examination	8:00 - 9:00 am <b>Lecture:</b> Pathology: Diseases of Arteries and Veins 2	8:00 - 9:00 am <b>Lecture:</b> Nervous Regulation of the Cardiovascular System	8:00 - 9:00 am <b>Lecture:</b> Intermediate Regulatory Mechanisms of Arterial Pressure ( Long term Regulatory Mechanism	8:00 - 9:00 am <b>Lecture:</b> Pathology of Hypertension
9:10 - 10:10 am <b>Lecture:</b> Pathology: Diseases of Arteries and Veins 1	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am <b>Lecture:</b> Short Term Regulation By Baroreceptors and Chemoreceptors	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am <b>Lecture:</b> Antihypertensive Drugs 1
10:20 - 11:20 am <b>Lecture:</b> Cholesterol Metabolism	11:00 - 12:30 am Independent Learning	10:20 - 11:20 am Independent Learning	11:00 - 12:30 am Independent Learning	10:25 - 11:20 am Independent Learning
11:30 - 12:30 pm Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 pm Independent Learning
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm <b>Practical:</b> The Recording of Jugular Venous and Carotid Arterial Pressures	Salam	1:30 - 3:40 pm <b>Practical (Communication Skills):</b> History Taking in Cardiovascular Diseases	1:30 - 3:40 pm Independent Learning	Salam

WEEK 5 – CARDIOVASCULAR BLOCK				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am <b>Lecture:</b> Antihypertensive Drugs 2	8:00 - 9:00 am <b>Lecture:</b> Antihypertensive Drugs 4	8:00 - 9:00 am <b>Lecture:</b> Pathology: Atherosclerosis	8:00 - 9:00 am <b>Lecture:</b> Pathology: Diseases of Arteries and Veins 1	8:00 - 9:00 am <b>Lecture:</b> Pathology: Diseases of Arteries and Veins 2
9:10 - 10:10 am <b>Lecture:</b> Antihypertensive Drugs 3	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am Independent Learning	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am Independent Learning
10:20 - 11:20 am Independent Learning	11:00 - 12:30 am Independent Learning	10:20 - 11:20 am Independent Learning	11:00 - 12:30 am Independent Learning	10:25 - 11:20 am Independent Learning
11:30 - 12:30 pm Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 pm Independent Learning
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm <b>Practical (clinical diagnostic skills):</b> Cardiovascular System Examination	Salam	1:30 - 3:40 pm Independent Learning	1:30 - 3:40 pm Independent Learning	Salam

WEEK 6 – CARDIOVASCULAR BLOCK				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am <b>Lecture:</b> Pericardium and Coronaries	8:00 - 9:00 am <b>Lecture:</b> Drugs for Hyperlipidimias 1	8:00 - 9:00 am <b>Lecture:</b> Drugs for Hyperlipidimias 2	8:00 - 9:00 am <b>Lecture:</b> Pathology: Ischemic Heart Disease	8:00 - 9:00 am <b>Lecture:</b> Anti-Anginal Drugs 2
9:10 - 10:10 am <b>Lecture:</b> Lipoprotein and Atherosclerosis 1	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am <b>Lecture:</b> Coronary Circulation	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am <b>Lecture:</b> Anti-Anginal Drugs 3
10:20 - 11:20 am Independent Learning	11:00 - 12:30 am Independent Learning	10:20 - 11:20 am Independent Learning	11:00 - 12:30 am Independent Learning	10:25 - 11:20 am Independent Learning
11:30 - 12:30 pm Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 pm Independent Learning
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm <b>Lecture:</b> Lipoprotein and Atherosclerosis 2	Salam	1:30 - 3:40 pm Independent Learning	1:30 - 3:40 pm <b>Lecture:</b> Anti-Anginal Drugs 1	Salam

WEEK 7 - CARDIOVASCULAR BLOCK				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am <b>Lecture:</b> Biochemical Markers of Myocardial Infarction	8:00 - 9:00 am <b>Lecture:</b> Anticoagulants and Fibrinolytics and Management of Myocardial Infarction 2	8:00 - 9:00 am <b>Lecture:</b> Anticoagulants and Fibrinolytics and Management of Myocardial Infarction 3	8:00 - 9:00 am <b>Lecture:</b> Pathology of Endocarditis and Pericarditis	8:00 - 9:00 am <b>Lecture:</b> Anticoagulants and Fibrinolytics and Management of Myocardial Infarction 4
9:10 - 10:10 am <b>Lecture:</b> Angiogenesis in Relation to Cardiac Diseases	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 Independent Learning	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am Final OSPE
10:20 - 11:20 am Independent Learning	11:00 - 12:30 am Independent Learning	10:20 - 11:20 Independent Learning	11:00 - 12:30 Independent Learning	10:25 - 11:20 am Independent Learning
11:30 - 12:30 pm Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 pm Independent Learning
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm <b>Lecture:</b> Anticoagulants and Fibrinolytics and Management of Myocardial Infarction 1	Salam	1:30 - 3:40 pm <b>Lecture:</b> Shock	1:30 - 3:40 pm Skills Lab (Normal Heart Sound)	Salam

Basic basic life support 2nd year.

(MON)

WEEK 1 – RESPIRATORY BLOCK				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am Chest wall (Anat)	8:00 - 9:00 am Respiratory Passage	8:00 - 9:00 am Mechanism of Breathing (Phys)	8:00 - 9:00 am Anatomy of the Lungs and Pleura	8:00 - 9:00 am Chronic Obstructive Airways Diseases (Path)
9:10 - 10:10 am Functions and Organization of the Respiratory System (Phys)	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am Respiratory Ventilation (Phys)	9:20 - 11:00 am Small Group Discussion  <i>All subj. within the course</i>	9:10 - 10:10 am Pharmacological Treatment of Asthma and COPD (3)
10:20 - 11:20 am Bronchial Asthma (Path)	11:00 - 12:30 am Independent Learning  <i>Credit</i>	10:20 - 11:20 am Atrophy, Allergic Disease and Anaphylaxis	11:00 - 12:30 am Independent Learning	10:25 - 11:20 am Immunology of Rhinitis and Bronchial Asthma
11:30 - 12:30 Pharmacological Treatment of Asthma and COPD (1)	11:30 - 12:30 Independent Learning	11:30 - 12:30 Pharmacological Treatment of Asthma and COPD (2)	11:30 - 12:30 Independent Learning	11:30 - 12:30 Pharmacological Treatment of Asthma and COPD (4)
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm (Practical) Thoracic wall, Intercostals Space	1:30 - 3:00 (Practical) Respiratory Passage	1:30 - 3:00 pm (Practical) Student Spirometry and Dynamic Spirometry	1:30 - 3:00 pm (Practical) Anatomy of the Lungs and Pleura	1:00-3:00 Chronic Obstructive Airways Diseases
	3:00 - 4:00 pm  Salam			3:00 - 4:00 pm  Salam

<b>WEEK 2 – RESPIRATORY BLOCK</b>				
<b>Saturday</b>	<b>Sunday</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>
8:00 - 9:00 am Histology of the Nasal Cavity, Larynx and Trachea	8:00 - 9:00 am Tuberculosis (Micro)	8:00 - 9:00 am Mediastinum	8:00 - 9:00 am Histology of the Lung (Anatomy)	8:00 - 9:00 am Tuberculosis Treatment
9:10 - 10:10 am Development of Larynx, Trachea, Bronchi	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am Gas Transfer (Phys)	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am Oxygen Transport Carbon Dioxide Transport (Phy)
10:20 - 11:20 am Immunology of T.B	11:00 - 12:30 am Independent Learning	10:20 - 11:20 am Respiratory Ventilation (2) (Phys)	11:00 - 12:30 am Independent Learning	10:25 - 11:20 am Effect of Exercise on the Respiratory System (Phys)
11:30 - 12:30 Glucose Utilization and ATP Production (1)	11:30 - 12:30 Independent Learning	11:30 - 12:30 Glucose Utilization and ATP Production (2)	11:30 - 12:30 Independent Learning	11:30 - 12:30 Alveolar-Arterial Equation (Phys)
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm (Practical) Histology of the Nasal Cavity, Larynx and Trachea	1:30 - 3:00 pm Salam	1:30 - 3:40 pm (Practical) Mediastinum	1:30 - 3:00 pm (Practical) Histology of the Lung	1:30 - 3:00 Salam
			3:00 - 4:00 pm Salam	



WEEK 3 – RESPIRATORY BLOCK				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am Restrictive Lung Diseases (Path)	8:00 - 9:00 am Respiratory tract Infections (1) (Pharmacology)	8:00 - 9:00 am Bacteria Causing Upper Respiratory Tract Infection	8:00 - 9:00 am Radiological Anatomy of the Chest (1)	8:00 - 9:00 am Cancers of the Lung (1) (Path)
9:10 - 10:10 am Control of Breathing (Phys)	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am Alveolar-Arterial Equation (Phys)	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am Effect of Low and High Gas Pressure on the Body (Physiology)
10:20 - 11:20 am Bacteria Causing Lower Respiratory Tract Infection	11:00 - 12:23 am Independent Learning	10:20 - 11:20 am Glucose Utilization and ATP Production (3)	11:25 - 12:30 am Independent Learning	10:25 - 11:20 am Respiratory Tract Infection (2) (Pharma)
11:30 - 12:30 Viral Infection of the Respiratory Tract (Influenza, Adenoviruses)	11:30 - 12:30 Independent Learning	11:30 - 12:30 Respiratory Chain	11:30 - 12:30 Independent Learning	11:30 - 12:30 Pulmonary Infections (Path)
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm Restrictive lung Diseases (Path - Practical)	1:30 - 3:00 pm Salam	1:30 - 3:40 pm (Practical) Microbiology (Staph and Strep Infections)	1:30 - 3:00 pm (Practical) Lung volumes and Capacity	1:30 - 3:00 pm Salam

<b>WEEK 4 – RESPIRATORY BLOCK</b>				
<b>Saturday</b>	<b>Sunday</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>
<b>8:00 – 9:00 am</b> Cancers of the Lung (2) (Path)	<b>8:00 - 9:00 am</b> Pharmacological Treatment of Acute and Chronic rhinitis and Cough (1)	<b>8:00 - 9:00 am</b> Radiological Anatomy of the Chest (1)	<b>8:00 - 9:00 am</b> Parameters for Measuring Work Capacity (Phys)	<b>8:00 - 9:00 am</b> Diagnosis of Type I Allergy
<b>9:10 - 10:10 am</b> Effect of Exercise on the Respiratory System	<b>9:20 – 11:00 am</b> Small Group Discussion	<b>9:10 - 10:10 am</b> Independent Learning	<b>9:20 – 11:00 am</b> Small Group Discussion	<b>9:10 - 10:10 am</b> Pharmacological Treatment of Acute and Chronic Rhinitis and Cough(2)
<b>10:20 - 11:20 am</b> Independent Learning	<b>11:00 - 12:30 am</b> Independent Learning	<b>10:20 - 11:20 am</b> Respiratory Fungal Infection (Asperogilosis)	<b>11:00 - 12:30 am</b> Independent Learning	<b>10:25 - 11:20 am</b> Independent Learning
<b>11:30 - 12:30</b> Phospholipids (1)	<b>11:30 - 12:30</b> Independent Learning	<b>11:30 - 12:30</b> Phospholipids (2)	<b>11:30 - 12:30</b> Independent Learning	<b>11:30 - 12:30</b> Independent Learning
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
<b>1:30 - 3:40 pm</b> Cancers of the lung (Practical)	<b>1:30 -3:00</b> Salam	<b>1:30 - 3:40 pm</b> Skills Lab (Normal Respiratory Sounds)	<b>1:30 - 3:00 pm</b> Practical Microbiology (Staph and Strep Infections)	<b>1:30 -3:00 pm</b> Salam

<b>WEEK 1 – RENAL BLOCK</b>				
<b>Saturday</b>	<b>Sunday</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>
<b>8:00 - 9:00 am</b> Anatomy (Kidney)	<b>8:00 - 9:00 am</b> Physiology (Glomerular Filtration)	<b>8:00 - 9:00 am</b> Physiology (Glomerular Filtration Rate)	<b>8:00 - 9:00 am</b> Physiology (Renal Clearance)	<b>8:00 - 9:00 am</b> Pathology of Five Major Clinical Syndrome-2
<b>9:10 - 10:10 am</b> Histology of the Kidney	<b>9:20 - 11:00 am</b> Small Group Discussion	<b>9:10 - 10:10 am</b> Embryology (Development of the Kidney)	<b>9:20 - 11:00 am</b> Small Group Discussion	<b>9:10 - 10:10 am</b> Biochemistry (Kidney Function Test)
<b>10:20 - 11:20 am</b> Radiological Anatomy of Renal System	<b>11:00 - 12:30 am</b> Independent Learning	<b>10:20 - 11:20 am</b> Independent Learning	<b>11:00 - 12:30 am</b> Independent Learning	<b>10:25 - 11:20 am</b> Radiological Anatomy of Renal System (2)
<b>11:30 - 12:30 pm</b> Practical Histology	<b>11:30 - 12:30</b> Independent Learning	<b>11:30 - 12:30</b> Pathology of Five Major Clinical Syndrome-1	<b>11:30 - 12:30</b> Independent Learning	<b>11:30 - 12:30 pm</b> Independent Learning
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
<b>1:30 - 3:40 pm</b> (Practical Anatomy)	<b>1:30 - 3:00 pm</b> Salam	<b>1:30 - 3:40 pm</b> Independent Learning	<b>1:30 - 3:40 pm</b> Independent learning	<b>1:30-4:00</b> Salam

WEEK 2 - RENAL BLOCK				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am Anatomy (Urethers, Bladder and Urethra)	8:00 - 9:00 am Biochemistry (Amino Acids1)	8:00 - 9:00 am Biochemistry (Amino Acids2)	8:00 - 9:00 am Pathology - Infection of the Urinary Tract and the Kidney- I	8:00 - 9:00 am Microbiology I (Urinary Tract Infection)
9:10 - 10:10 am Histology of Urinary Passage	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am Embryology Development of Male Genital System	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am Renal Pharmacology
10:20 - 11:20 am Biochemistry (urine analysis)	11:00 - 12:30 am Independent Learning	10:20 - 11:20 am Physiology (Tubular Transportation...)	11:00 - 12:30 am Independent Learning	10:25 - 11:20 am Physiology - Tubular Reabsorption
11:30 - 12:30 pm Practical Histology of Urinary passage)	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 pm Biochemistry (Amino Acids1)
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm (Practical Anatomy (Ureters, Bladder, and Urethra)	1:30-3:00 pm Salam	1:30 - 3:40 pm Independent Learning	1:30 - 3:40 pm Practical Physiology( GFR and (Renal Clearance)	1:30 - 3:00 pm Salam

<b>WEEK 3 - RENAL BLOCK</b>				
<b>Saturday</b>	<b>Sunday</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>
<b>8:00 - 9:00 am</b> Pathology - Infection of the Urinary Tract and the Kidney-2	<b>8:00 - 9:00 am</b> Physiology Renal Regulation of Body Fluid)	<b>8:00 - 9:00 am</b> Pharmacology (Diuretics-1)	<b>8:00 - 9:00 am</b> Pharmacology (Diuretics-2)	<b>8:00 - 9:00 am</b> Pharmacology (UTI Treatment-1)
<b>9:10 - 10:10 am</b> Physiology Concentration of the Urine	<b>9:20 - 11:00 am</b> Small Group Discussion	<b>9:10 - 10:10 am</b> Embryology Development of Female Genital System	<b>9:20 - 11:00 am</b> Small Group Discussion	<b>9:10 - 10:10 am</b> Microbiology 2 (Treatment of UTI)
<b>10:20 - 11:20 am</b> Biochemistry (inborn error of amino acid metabolism)	<b>11:00 - 12:30 am</b> Independent learning	<b>10:20 - 11:20 am</b> Biochemistry renal stones	<b>11:00 - 12:30 am</b> Independent learning	<b>10:25 - 11:20 am</b> Immunology-1( immune complex nephritis, Anti GBM)
<b>11:30 - 12:30 pm</b> Independent learning	<b>11:30 - 12:30</b> Independent learning	<b>11:30 - 12:30</b> Independent learning	<b>11:30 - 12:30</b> Independent learning	<b>11:30 - 12:30 pm</b> Micturation and kidney disease (physiology)
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
<b>1:30 - 3:40 pm</b> (Practical physiology (tubular function)	<b>1:30-3:00 pm</b> Salam	<b>1:30 - 3:40 pm</b> Physiology renal tubular function (CD session)	<b>1:30 - 3:40 pm</b> Independent learning	<b>1:30-3:00 pm</b> Salam

WEEK 4 RENAL BLOCK				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 - 9:00 am Pharmacology (UTI treatment-2)	8:00 - 9:00 am Acid base physiology 2	8:00 - 9:00 am Microbiology 3	8:00 - 9:00 am Acid base physiology 3	8:00 - 9:00 am Pathology of renal allograft
9:10 - 10:10 am Immunology-2 (immunology of transplant)	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am Microbiology 3(Practical)	9:20 - 11:00 am Small group discussion	9:10 - 10:10 am Independent learning
10:20 - 11:20 am Pathology (tumors of the kidney and urinary tract)	11:00 - 12:30 am Independent learning	10:20 - 11:20 am Independent learning	11:00 - 12:30 am Independent learning	10:25 - 11:20 am Microbiology 3
11:30 - 12:30 pm Acid base physiology 1	11:30 - 12:30 Independent learning	11:30 - 12:30 Microbiology 3	11:30 - 12:30 Independent learning	11:30 - 12:30 pm Independent learning
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm (Practical)	1:30-3:00 pm Salam	1:30 - 3:40 pm Acid base physiology practical	1:30 - 3:40 pm Independent learning	1:30-3:00 pm Salam



<b>WEEK 1- MUSCULOSKELETAL BLOCK</b>				
<b>Saturday</b>	<b>Sunday</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>
<b>8:00 - 9:00 am</b> Pectoral Region, Axilla and Shoulder Joint	<b>8:00 - 9:00 am</b> Back Muscles and Scapular Muscle	<b>8:00 - 9:00 am</b> Arm, Cubital Fossa and Elbow Joint	<b>8:00 - 9:00 am</b> Muscles of the Forearm	<b>8:00 - 9:00 am</b> Osteomyelitis
<b>9:10 - 10:10 am</b> Resting Membrane Potential (RMP)	<b>9:20 - 11:00 am</b> Small Group Discussion	<b>9:10 - 10:10 am</b> Action Potentials	<b>9:20 - 11:00 am</b> Small Group Discussion	<b>9:10 - 10:10 am</b> Independent Learning
<b>10:20 - 11:20 am</b> Radiological anatomy of the Musculoskeletal system (1)	<b>11:00 - 12:30 am</b> Independent Learning	<b>10:20 - 11:20 am</b> ATP and energy metabolism during muscular exercise (1)	<b>11:00 - 12:30 am</b> Independent Learning	<b>10:25 - 11:20 am</b> Radiological anatomy of the Musculoskeletal system (1)
<b>11:30 - 12:30</b> Immunology tolerance and autoimmunity	<b>11:30 - 12:30</b> Independent Learning	<b>11:30 - 12:30</b> ATP and energy metabolism during muscular exercise (2)	<b>11:30 - 12:30</b> Independent Learning	<b>11:30 - 12:30</b> Classification and Immunopathogenesis of Rheumatic Diseases.
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
<b>1:30 - 3:40 pm</b> (Practical) Pectoral Region, Axilla and Shoulder Joint	<b>1:30 - 3:00</b> (Practical) Back Muscles and Scapular Muscle	<b>1:30-3:00</b> Arm, Cubital Fossa and Elbow Joint	<b>1:30 - 3:00 pm</b> (Practical) Muscles of the Forearm	<b>1:30-3:00</b> (Practical) Osteomyelitis
	<b>3:00 -4:00</b>  <b>Salam</b>			<b>3:00 -4:00</b>  <b>Salam</b>



<b>WEEK 2 – MUSCULOSKELETAL BLOCK</b>				
<b>Saturday</b>	<b>Sunday</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>
8:00 - 9:00 am Hand Muscle and Wrist joint	8:00 - 9:00 am Hand Muscle and Wrist joint	8:00 - 9:00 am Gluteal Region, Back of the Thigh and Hip Joint	8:00 - 9:00 am Front and Lateral Compartment of the Leg and Dorsum of the Foot	8:00 - 9:00 am <b>Bone Tumors:</b>
9:10 - 10:10 am Properties of nerve fibers:	9:20 – 11:00 am Small Group Discussion	9:10 - 10:10 am Neuromuscular Transmission	9:20 – 11:00 am Small Group Discussion	9:10 - 10:10 am <b>Bone Tumors:</b> (Practical)
10:20 - 11:20 <b>am</b> Independent Learning	11:00 - 12:30 <b>am</b> Independent Learning	10:20 - 11:20 <b>am</b> Creatine Metabolism	11:00 - 12:30 <b>am</b> Independent Learning	10:25 - 11:20 <b>am</b> <b>Bone Tumors:</b> (Practical)
11:30 - 12:30 Myocitis	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 Independent Learning	11:30 - 12:30 Tetanus and Botulism
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm (Practical) Hand Muscle and Wrist joint	1:30 - 3:00 Hand Muscle and Wrist joint	1:30 - 3:40 pm Gluteal Region, Back of the Thigh and Hip Joint	1:30 - 3:40 pm (Practical) Front and Lateral Compartment of the Leg and Dorsum of the Foot	1:30 – 3:00 pm NERVE ACTION POTENTIAL (Practical)
	3:00-4:00 Salam			3:00-4:00 Salam

<b>WEEK 3 – MUSCULOSKELETAL BLOCK</b>				
<b>Saturday</b>	<b>Sunday</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>
8:00 - 9:00 am Popliteal Fossa, Posterior Compartment of the Leg and Sole of the Foot	8:00 - 9:00 am Knee and Ankle Joint	8:00 - 9:00 am Muscles of Face	8:00 - 9:00 am Tempomandibular Joint and Muscles of Mastication	8:00 - 9:00 am Pathology of Major Articular Diseases (1)
9:10 - 10:10 am Molecular Basis of Muscle Contraction	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am Physiology of Muscle	9:20 - 11:00 am Small Group Discussion	9:10 - 10:10 am Pathology of Major Articular Diseases (Practical)
10:20 - 11:20 am Scabies and Cutaneous Leishmaniasis	11:00 - 12:23 am Independent Learning	10:20 - 11:20 am Purine Degradation and Uric Acid Formation (1)	11:25 - 12:30 am Independent Learning	10:25 - 11:20 am Pathology of Major Articular Diseases (Practical)
11:30 - 12:30 Viruses Causing Maculopapular rash	11:30 - 12:30 Independent Learning	11:30 - 12:30 Dermatophytes	11:30 - 12:30 Independent Learning	11:30 - 12:30 Viruses Causing Vesicular Rash
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm Popliteal Fossa, Posterior Compartment of the Leg and Sole of the Foot	1:30 - 3:00 pm Knee and Ankle Joint	1:30 - 3:40 pm (Practical) Muscles of Face	1:30 - 3:00 pm Tempomandibular Joint and Muscles of Mastication	1:30 - 3:00 Independent Learning
	3:00 - 4:00 pm Salam			3:00 - 4:00 pm Salam

<b>Week 4 – MUSCULOSKELETAL BLOCK</b>				
<b>Saturday</b>	<b>Sunday</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>
8:00 – 9:00 am Triangles of the Neck	8:00 - 9:00 am Anterior Abdominal Wall	8:00 - 9:00 am Posterior Abdominal Wall and Pelvic Wall	8:00 - 9:00 am Radiological anatomy of Musculoskeletal System (3)	8:00 - 9:00 am Pathology of Major Articular Diseases(2)
9:10 - 10:10 am Smooth and Cardiac Muscles	9:20 – 11:00 am Small Group Discussion	9:10 - 10:10 am Independent Learning	9:20 – 11:00 am Small Group Discussion	9:10 - 10:10 am Pathology of Major Articular Diseases (practical)
10:20 - 11:20 am Independent Learning	11:00 - 12:30 am Independent Learning	10:20 - 11:20 am Purine Degradation and Uric Acid Formation (2)	11:00 - 12:30 am Independent Learning	10:25 - 11:20 am Pathology of Major Articular Diseases (Practical)
11:30 - 12:30 pm	11:30 - 12:30 pm Independent Learning	11:30 - 12:30 pm	11:30 - 12:30 pm Independent Learning	11:30 - 12:30 pm
<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
1:30 - 3:40 pm Triangles of the Neck	1:30 - 3:00 pm Anterior Abdominal Wall	1:30 - 3:40 pm Posterior Abdominal Wall and Pelvic Wall	1:30 - 3:40 pm Independent Learning	1:30 -3:00 pm Independent Learning
	3:00 - 4:00 pm Salam			3:00 - 4:00 pm Salam