



## **Forward**

It is an honor to be the dean of the college of medicine in Duhok University. The college of medicine is one of the colleges of the University of Duhok which has been established in 1992 to provide knowledge and well trained doctors to serve Kurdistan region.

One of the major tasks of the college leader is to follow and update the curriculum. Curriculum development includes a variety of activities around the creation of planned curriculum, pedagogy, instruction and delivery methods for guiding student learning. Nowadays most of the instructors incorporate field work and learning through firsthand experience, to help students understand theory, develop skills, integrate and build tacit knowledge, develop meaning in places and work with peers and experts in alternate settings.

I have dedicated all my efforts to improve the educational effectiveness and to develop better ways for evaluation and assessment of the curriculum and academic programs. Plenty of models are abound for this purpose, but the priority is placing student learning and success at the core. All can be achieved when you insist that assessment criteria are tailored to the disciplines.

For the academic year (2018-2019), a major improvement in medical education of our college was done. We had changed the teaching system from the classical one to a new, more professional one named the Integrated System of Medical Education and started applying it in the first year. This system is better than the classical one and the outcome is much better as more professional doctors will be graduated. We hope to continue with this system successfully for the sake of medical students and future doctors.

I am pleased to forward the recent updated curriculum of Duhok College of medicine.

I hope all the best and prosperity for our students

**Yours,**

**Former Dean**

**Prof. Dr. Qasim H. Abdullah**

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**University of Duhok  
College of medicine**

## **Vision, Mission and Objectives**

### **Vision:**

Our vision is to recognize the College of Medicine as an institution of excellence, among the leading medical colleges in the region and the world and to be an effective partner to improve the health situation in the province of Duhok.

### **Mission:**

Our College is a governmental scientific institution utilizing advanced concepts of medical education to graduate competent physicians capable of meeting their community needs

### **Objectives:**

- A. to graduate doctors who are:
  - 1- Knowledgeable, skillful and able to address the health needs of their society.
  - 2- Concerned with the issues of equity, quality and relevance in providing health care.
  - 3- Decision makers
  - 4- Adhered to the ethical standard in their practice.
  - 5- Able to be an active team leader.
  - 6- Effective educator within the community
  - 7- Good health promoter and practitioner of preventive medicine.
  - 8- Able to recognize the importance of research in enhancing health standard of the population.
  - 9- A believer in continuing medical education as a tool of keeping good standard of skill and knowledge.
  
- B. To conduct researches targeted at solving common problems in the community.
- C. To provide opportunities for wide range of postgraduate studies leading to higher degrees for doctors in the region.
- D. To contribute in spreading and updating medical knowledge and skills among doctors through continuous medical education
- E. To be the main source of medical expertise and service delivery for the province through active participation of the staff in hospitals and health centers.



**M.B.Ch.B Phase I**  
**University of Duhok/College of Medicine**  
**2021-2022**

## First year syllabus: (Integrated system)

### First Semester (S1):

Subjects	Total hours		Total units
	Theory	Practical	
Medical biophysics	30	45	5
Computer	30	30	4
Scientific debate	60	-	4
Kurdology	60	-	4
English language and Terminology	60	-	4



**Medical biophysics (theory)****Hours Per week: 2 hours****Total No. of hours: 30 hours**

Topics	Hours
Introduction of medical physics module and the basic quantities, units and vectors.	2
Physics of respiratory system	4
Physics of skeleton	2
Physics of pressure system of the Body	2
Energy, Heat, Work and Power of the Body	2
Sound and ultrasound in medicine	2
Physics of ear and hearing	2
Physics of the Cardiovascular system	2
Physics of light and laser and their medical applications	2
Physics of eye and vision	2
Bioelectricity	2
Radiation in Medicine	4
Nanotechnology in Medicine	2

**Medical biophysics (Practical)****Hours Per week: 3 hours****Total No. of hours: 45 hours**

Topics	Hours
Temperature Measurements	3
Ohm's Law and Human Resistance	3
Blood Pressure Measuring (Sphygmomanometer)	3
Spirometry	3
Optics of the Human Eye	3
ECG	3
EEG	3
EMG	3
Endoscope	3
MRI	3
CT - Scan	3
X-Ray	3
Laser	3
Audiometer	3
Oscilloscope	3

**Subject: Computer (theory)**

**Hours Per week: 2 hours**

**Total No. of hours: 30 hours**

Topics	Hours
Overview of the ICDL, Basic concept of IT, Basic operation system concepts and file management, Computer Types, Computer Parts (Computer Software Types, Computer Hardware Parts), Computer Performance, Storage Capacity Measurements, The main types of Storage Media, Input & Output Devices, print management .	4
Computer Network Types, The Internet Parts, Email types, Email Management, Web Browsers, Internet Protocols, File Transfer Protocol, Internet Services, HTTP, WWW, Address types, Address parts, web search engine, Client, Server, Network Media, Network Operating System, Network Topologies, IP Addressing, Uniform resource locator, Concept of Firewall, Share Data over Network, Intranet, Extranet, Data Transfer over Network, Different Internet Connection Services, The Characteristics of Broad band, Wi-Fi vs Bluetooth, Cookies, Security on the Web, Outlook.	6
Using the Computer and managing Files (Operating System: Windows XP, Windows 7), GUI (Graphical User Interface, Application Software, Word Application, Spreadsheet Application, Presentation.	4
The concept of Information Security, Viruses types, Virus protection, Infection targets and replication techniques, Recovery strategies and methods, Antivirus software, Viruses and the Internet)	4
Introduction to medical informatics	1
Health Information System	1
Bioinformatics	1
Consumer Health Informatics and Tele-health	1
Electronic Health Record	1
Evidence based medicine	1
Big data in Medicine	1
Clinical Decision Support	1
Imaging Systems	1
Computerized Physician Order Entry	1
Medical robotics	1
Cybermedicine	1



**Subject: Computer (practical)****Hours Per week: 2 hours****Total No. of hours: 30 hours**

Practical Sessions	Hours
Computer Parts: Hardware, software.	2
Using the Computer and managing Files (Operating System: Windows XP, Windows 7), Firewall, Control Panel.	4
Network Configuration, Email, Web Browsers, Web Search Engine, Modem Network, IP Addressing, (URL) Uniform Resource Locator, Concept of Firewall, Share Data over Network, Wi-Fi .	6
Microsoft Office (Word)	6
Microsoft Office (Power Point)	6
Microsoft Office (Excel)	6

**Subject: Scientific debates (theory)****Hours Per week: 4 hours****Total number of hours: 60**

Subject-titles	Hours
Introductions of Critical thinking & Scientific Debates + Examples with discussion.	2
A Thinker's Vocabulary + Four Aspects of Critical Thinking.	2
Features of ideal critical thinker, (15 features) + How to achieve development in thinking ,stages required for development as a critical thinker	2
The 9 strategies of critical thinking.1 <sup>st</sup> strategy (Use wasted time),2 <sup>nd</sup> strategy (A problem a day),3 <sup>rd</sup> strategy (Internalize Intellectual standards)	2
4 <sup>th</sup> strategy (Keep an Intellectual journal), + 5 <sup>th</sup> strategy (Reshape your character), + +6 <sup>th</sup> strategy (Deal with your Egocentrism)+7 <sup>th</sup> strategy (Redefine the way you see things)+	2
8 <sup>th</sup> strategy(Get in touch with your emotions)+9 <sup>th</sup> strategy (Analyze group influences on your life)+ the three interwoven strategies + final conclusion.	2
The five Thinking Styles + explanation with discussion.+ Improve your communication through matching their thinking styles + Key Take Away	2
How to use the five thinking styles + Types of thinking .	2
Reasoning. (Definition) + ( The 18 Types), explanation + examples	2
The fourteen {Global Top Science Questions} those required Scientific Debate.	2
Logic & Critical Thinking. (Why should you become a critical thinker?).	2
What is an Argument (Definition, consistency, uses)+ The Two kinds of Arguments.	2

How to evaluate an Argument + The ultimate goal of logic is to evaluate argument.	2
What is a Good Argument (Deductive /valid or invalid) +(Inductive/strong or weak).	2
The Ideal Method to deal with the problem (Identify, Define, Explore, Act, Look back to evaluate effects).	2
Fundamentals of Logic and Critical Reasoning. (I think therefore I am.) .	2
Ask questions / Ability to ask on target questions is one quality of a good critical thinker.	2
What are Stupid questions / Do not ask such silly questions.	2
Common Decision Making Problems + How to overcome these problems.	2
Critical Thinking Skills (Always be reasonable). + Examples & Discussion	2
Why College Encourages Critical Thinking. (The gift a college can give you is an open mind).	2
Academic Debates/ Introduction + Short History + Academic Debate Formats + Debate- Skills	2
Plagiarism + Paraphrasing + Summarizing + Quoting .( Definitions , Why & when to be used )+ Note Taking	2
Negotiation & Persuasion skills + Time Management + Posters , Reports & Presentations	2
Health & Safety(Definition, Goals, Strategies, First Aid, Policies + Procedures approaches , H. &S Hazards )	2
Health & Safety programs , Occupational Health & Safety, Avoidable Workplace Health and Safety Hazards	2
Education and Awareness, <b>WORKPLACE SAFETY RECOMMENDATIONS THAT WORK</b>	2
<b>STEPS TO IMPROVING HEALTH &amp; SAFETY</b> , Core Elements of the Safety and Health Program Management Guidelines + Successful Health and Safety Management	2
Fire safety in the workplace, Fire risk assessments, Fire safety and evacuation plans, Fire safety equipment, + Smoking at work.	2
<b>TOTAL HOURS = {58 HOURS + 2 Hours Practical session on Fire Extinguish}= 60 Hours</b>	

**Subject: Kurdology (theory)**

**Hours Per week: 4 hours**

**Total No. of hours: 60 hours**

Topics	Hours
Kurdology:	
میژوویا کوردان یا کهفن (نهژادی کوردا، نافۆ کوردستانی دیروکی دا)	60
میژوویا کوردان (کورد ل سەردەمی ئیسلامی)	
میژوویا نوێ (کورد وشەری چالیدیەران 1514ز)	
میژوویا نوێ (میرنشینی کوردیی سەربەخو) بەدینان _ سوران _ بابان_ بوتان)	
میژوویا نوێ (ریکەفتناما کوردی و عوسمانی سالا 1516ز)	
میژوویا نوێ(شورەشا سمکویی شکاک 1919ز)	
میژوویا نوێ (شورەشا شیخ سەعید پیران 1925ز)	
میژوویا نوێ (شورەشین بارزان 1908 – 1946ز)	
میژوویا نوێ (کومارا مهابا دسالا 1946روێ کورد وبارزانی نەمر دشورەشا 14 تیرمەهی سالا 1958)	
جوگرافیا کوردستان و جەین شینواری.	
زمان و ئەلفە بی یین کوردی و دیالکتین زمانی کوردی	
بزاڤا رۆژنامەفانیا کوردی (1898 – 1932ز) و دیروکا ئالایی کوردستانی	

**Subject: English Language and Terminology (theory)**

**Hours Per week: 4 hours**

**Total No. of hours: 60 hours**

Topics	Hours
Introduction to medical terminology	4
Basic elements of a medical word	4
Suffixes	4
Prefixes	4
Singular and plural endings	2
The human body	4
The skeletal system terminology	4
The digestive system	4
The cardiovascular system	6
The respiratory system	4
Body, lymph and immune system	4
The genitourinary system	4
The nervous system	4
Special senses	4
Abbreviations in medical terminology	4

## First year

### Second Semester (S2):

Module	Total hours		Total units
	Large group (Theory)	Small groups teaching	
Molecules, Gene and Disease	30	45	4
Tissue of the body	30	45	4
Health and disease in population	30	45	4
Metabolism	30	45	4
Clinical Problem Solving 1	15	30	4
clinical skills foundation course	-	45	2

**Module:** Molecules, gene and disease

Hours Per week: 5 hours

<b>Session</b>	<b>Topics</b>
<b>1</b>	Introduction to the Module Introduction to the Cell Amino acids & Proteins
<b>2</b>	Protein structure and functions protein folding and function Haemoglobin and myoglobin Cell and biological molecules
<b>3</b>	Enzymes and Enzyme regulation Enzyme activity Regulatory Strategies Protein Structure and function
<b>4</b>	DNA structure and chromosome organization Nucleotide and nucleic acids DNA .chromosomes and DNA replication Enzymes and enzyme regulation
<b>5</b>	Transcription and Translation What is a gene and transcription The Genetic code and transcription DNA Structure
<b>6</b>	Inheritance of Genes Mitosis and Meiosis genotype and Phenotypes Genetic linkage and pedigree analysis Transcription and translation
<b>7</b>	Review and 1 <sup>st</sup> formative assessment
<b>8</b>	Protein processing & targeting Protein processing in cells, the secretory pathway. Proteolytic processing within the secretory pathway; collagen Inheritance of genes
<b>9</b>	Molecular Diagnosis Molecular diagnosis Molecular diagnosis 2 Inheritance of genes Part 2
<b>10</b>	Mutations Mutagenesis & its effects. Detection disease-causing Mutations Molecular diagnosis Part 1:Q1-6,8,10)
<b>11</b>	Chromosomal abnormalities Numerical chromosomal Abnormalities Structural chromosomal Abnormalities Mutations & their consequences
<b>12</b>	Molecular diagnosis & Chromosomal abnormalities Molecular diagnosis (part 2:Q7,Q9) Chromosomal abnormalities
<b>13</b>	Case studies
<b>14</b>	Review & 2 <sup>nd</sup> formative assessment

**Module:** Tissues of the body

Hours Per week: 5 hours

<b>Session</b>	<b>Topics</b>
<b>1</b>	Methods in Light Microscopy Cell Ultrastructure
<b>2</b>	Epithelial Tissues 1 Internal Surfaces of the Body
<b>3</b>	Epithelial Tissues 2 Skin 1
<b>4</b>	Glandular Tissues & How Cells Secrete Early Embryonic Development 1
<b>5</b>	Early Embryonic Development 2 Bugs in the System
<b>6</b>	Connective Tissues 1 Early Embryonic Development 3
<b>7</b>	Connective Tissues 2 formative assessment
<b>8</b>	Cartilage and Bone Viruses
<b>9</b>	Ossification and Bone Disease Early Embryonic Development 4
<b>10</b>	Skin 2 Innate & Adaptive Immunity
<b>11</b>	Neurons, Nerve, Fibres & Peripheral Nerves Fundamentals of the Autonomic Nervous system
<b>12</b>	Muscle Disorders of Muscle
<b>13</b>	Blood Cells & Haemopoiesis formative assessment
<b>14</b>	REVISION

**Module: Health and Disease in Population**

Hours Per week: 5 hours

<b>Session</b>	<b>Topics</b>
<b>1</b>	Introduction to the module
<b>2</b>	Defining the extent of medical problem
<b>3</b>	Measuring diseases in population
<b>4</b>	Sources of Variation
<b>5</b>	Cohort studies
<b>6</b>	Guest lecture: history, hygiene and hospital infection
<b>7</b>	Formative assessment
<b>8</b>	Case control studies
<b>9</b>	Causality or merely association
<b>10</b>	Randomized controlled trial
<b>11</b>	Reviewing the evidence
<b>12</b>	From research to practice
<b>13</b>	“Births, Deaths and Populations” and “Uses of Health Information” Lectures
<b>14</b>	module revision

**Module:** Metabolism

Hours Per week: 5 hours

<b>Session</b>	<b>Topics</b>
<b>1</b>	Nutrition and body weight Homeostasis, circadian rhythm BMI, obesity, malnutrition
<b>2</b>	Cell metabolism, bioenergetics, energy balance Carbohydrate metabolism 1 Diet analysis
<b>3</b>	Carbohydrate metabolism 2 Galactosaemia TCA cycle and gluconeogenesis
<b>4</b>	Oxidative phosphorylation, oxidative stress Glucose 6-phosphate dehydrogenase deficiency Fuel storage and lipid metabolism
<b>5</b>	Lipid metabolism and transport Protein and nitrogen metabolism Hyperlipidaemia, hypercholesterolaemia
<b>6</b>	Control of energy metabolism Drug metabolism PKU, amino acid metabolism
<b>7</b>	Formative assessment
<b>8</b>	Introduction to endocrinology Endocrine pancreas Glycogen storage diseases, hypoglycaemia
<b>9</b>	Clinical presentation-Diabetes mellitus Control of appetite, metabolic syndrome Type 1 & type 2 diabetes
<b>10</b>	Thyroid gland Clinical presentation :Disturbances thyroid function Hyperthyroidism & hypothyroidism
<b>11</b>	Calcium metabolism Pituitary & adrenal glands
<b>12</b>	Clinical presentation: Disorders of the adrenal cortex Adaptations of metabolism Cushing's & Addison's disease
<b>13</b>	Module revision
<b>14</b>	Review & 2 <sup>nd</sup> formative assessment



## Module: Clinical problem solving 1

Session	Topics
1	Introduction to the module
2	Chest pain
3	Cystic Fibrosis
4	
5	Sickle cell disease
6	
7	Falls
8	
9	Tuberculosis
10	
11	Tired all the time
12	
13	Preparing for assessments
14	Module review

**Semester 2: Living with long-term conditions (LwLTC)**



**Module:** Mechanisms of diseases

<b>Session</b>	<b>Topics</b>
<b>1</b>	Cell Injury and Death
<b>2</b>	Acute Inflammation
<b>3</b>	Chronic Inflammation
<b>4</b>	Healing and Repair
<b>5</b>	Haemostasis and Thrombosis
<b>6</b>	Atheroma
<b>7</b>	Cellular Adaptations
<b>8</b>	Neoplasia I
<b>9</b>	Neoplasia II
<b>10</b>	Neoplasia III
<b>11</b>	Neoplasia IV
<b>12</b>	Acute Inflammation

**Module: Membrane & Receptors**

<b>Session</b>	<b>Topics</b>
<b>1-2</b>	Membranes and membrane transport
<b>3-4</b>	Membrane excitability
<b>5-6</b>	Receptors and membrane turnover
<b>7-9</b>	Signal transduction in biological membranes
<b>10-12</b>	Drugs, receptors and the Autonomic Nervous System
<b>13</b>	Review & formative assessment

**Module: Cardiovascular system**

<b>Session</b>	<b>Topics</b>
<b>1</b>	Introduction to the CVS, anatomy of the heart in situ and major blood vessels
<b>2</b>	The cardiac cycle. Development of the cardiovascular system.
<b>3</b>	The anatomy and development of the heart. Congenital heart problems
<b>4</b>	Role of the autonomic nervous system
<b>5</b>	Blood flow to tissues and its control
<b>6</b>	Overall control of the cardiovascular system
<b>7</b>	Cellular and molecular events in the heart /drugs
<b>8</b>	The electrocardiogram
<b>9</b>	Special circulations
<b>10</b>	Ischaemic heart disease
<b>11</b>	Heart failure
<b>12</b>	Shock
<b>13</b>	Review & formative assessment

## Module: Musculoskeletal system

Session 1:	The Science of the MS System	Clinically Applied Topographical Anatomy	Clinical Presentations and Review
LT	1.1 Module Introduction		
LT	1.2 The Skeletal System: Bones & Joints		
SR		Tutorial: Anatomico-Medical Terminology	
DR		Introduction to Dissection & Pectoral Region	
LT			1.3 Clinical Overview and Examination of the Musculoskeletal System

Session 2:	The science of the MS System	Clinically applied topographical Anatomy	Clinical Presentations and Review
LT	2.1 Skeletal muscle: Structure, Morphology & Mechanics		
SR		Osteology & Radiology of Upper Limb	
SR		DR Briefing: Brachial Plexus	
DR		The Axilla	

Session 3:	The science of the MS System	Clinically applied topographical Anatomy	Clinical Presentations and Review
LT	3.1 Development of the Limbs		
SR		DR Briefing: Back of Trunk	
DR		Back of Trunk	
LT		3.2 Functional & Applied Anatomy of Shoulder joint	

<b>Session 4:</b>	<b>The science of the MS System</b>	<b>Clinically applied topographical Anatomy</b>	<b>Clinical Presentations and Review</b>
LT	4.1 Dermatomes, Myotomes & Segmental Innervation of UL & LL		
SR		DR Briefing: Front & Back of Arm	
DR		Front & Back of Arm	
LT		4.2 The Musculoskeletal System	

### **Module: Clinical problem solving 2**

<b>Session</b>	<b>Topics</b>
<b>1</b>	<b>Iron metabolism</b>
<b>2</b>	
<b>3</b>	<b>Tired all the time</b>
<b>4</b>	
<b>5</b>	<b>Falls</b>
<b>6</b>	
<b>7</b>	<b>Fainting</b>
<b>8</b>	
<b>9</b>	<b>Review</b>
<b>10</b>	

**Semester 3: Living with long-term conditions (LwLTC)**

## Second Year syllabus (S4): (Integrated system)

Modules (S4)	Total hours		Total units (21)
	Large group (Theory)	Small groups teaching	
Urinary system	30	45	4
Respiratory system	30	45	4
Gastro-intestinal system	30	45	4
Health Psychology & Diversity	30	45	4
Forensic Medicine	30	22 (Practical)	3

### Forensic Medicine (S4)

Topics	Hours
تعريف الطب العدلي واجبات الطبيب العدلي	45
الموت وعلاماته علامات الموت الاكيدة - الصمل - البقع الموتة - التفسخ	
الجروح - أقسامها - قطعية - رضية - مفتعلة السحجات - الكدمات - أهميتها بالنسبة للطبابة العدلية	
الجروح النارية - مميزاتها تفريق الحالة الانتحارية من الجالة الجنائية	
الحروق - أنواعها - النارية - الكهربائية - الكيمياوية درجاتها - بالنسبة الى العمق ومساحة الجسم	
الاختناق - أنواعها - الوسائل المؤدية له - كتم النفس - خنق باليد - خنق برباط	
الغرق - علاماته الاكيدة - الشنق - انواعها الخنق بغاز الفحم (اول اوكسيد الكربون)	
الجرانم الجنسية - اغتصاب - لواط - مظاهر غشاء البكارة - تمزق حديث أم قديم	
قتل الوليد (طفل غير شرعي) ووسائل القتل، هل ولد الطفل حيا، ام ميتا. تشخيص ذلك.	
التعريف ، طرق التعريف، اهميته	

الاخلاق الطبية ، سرار المهنة الطبية ، كيفية المحافظة عليها	
علم السموم	
التسمم بلدغة الحية والعقرب طرق التشخيص – وسائل المعالجة	
التسمم بتناول الكوكائين والحشيشة علاماتها – معالجتها	
الافيون ، كيف يحضر الافيون ، اخر مركباته، الهيروين	
الادمان، المواد التي تؤدي الى الادمان شروط الادمان والفرق بينها والتعود	
التسمم بمعدن الزنبق، خطورته، تشخيصه، السموم بمعدن الرصاص، علامات التسمم المزمن به	
التسمم بالمواد الكيماوية – أنواعها – عوامل الاعصاب، الخانقة – غاز الخردل، VX	

### Forensic Medicine (Practical sessions)

Practical sessions	Hours
علامات الموت – الآنية – غير الاكيدة – الموت السريري – موت الدماغ	32
علامات الموت الاكيدة – برودة الجسم – الصملى الموتى – الانحدار الدموي – التفسخ	
الحالات التي تعود الى الطب العدلى – جنائية – جروح – سموم – حروق – اختناق – جرائم جنسية	
الجروح البسيطة – سحجات – اهميتها للطبابة العدلية – جروح نادرة – مفتعلة – وخزية – غيرها	
الغاية من تشريح الميت كيفية ارسال المريض الى الطبابة العدلية	
للفحص الطبى العدلى حالات رفض الفحص	
الحالات التي ترسل الى الطبابة العدلية للتشريح عند الوفات	
كيفية اجراء فحص القبور فحص السوائل الحيوية – المنى	
فحص اللوطة والاعتصاب والجرائم الجنسية	



تشريح حالات الموت المجهول السبب	
تعليم الطالب كيفية كتابة التقرير الطبي العدلي الاولي	

### Urinary system: Module

Session	Topics
1	Introduction to the Urinary system
2	Development of the Urinary system
3	Kidney as a filter
4	Control of plasma volume
5	Control of plasma osmolarity
6	Control of acid base balance
7	Control of Micturition
8	Pathology of the urinary system
9	Acute Kidney injury ( injury (AKI)
10	Urinary tract infections(UTI)
11	Chronic Kidney injury(CKI)
12	Review & formative assessment



## Respiratory System

Session	Topics
1	Introduction to the Respiratory System
2	Anatomical Basis of Breathing
3	Mechanics of Breathing
4	Oxygen in the blood
5	Chemical control of breathing
6	Asthma
7	Midterm Formative assessment
8	Pneumonia
9	Lung Cancer
10	Introduction to Chest imaging
11	Respiratory system - History taking & Examination
12	Respiratory Failure & Overview
13	Review & formative assessment

## **Gastro-Intestinal system**

<b>Session</b>	<b>Topics</b>
<b>1</b>	Overview of GI function/anatomy
<b>2</b>	Swallowing/ embryology
<b>3</b>	Surgical anatomy/ Hernias
<b>4</b>	Stomach 1
<b>5</b>	Stomach 2
<b>6</b>	Liver, Gallbladder and Pancreas 1
<b>7</b>	Liver, Gallbladder and Pancreas 2
<b>8</b>	Intestines 1
<b>9</b>	Intestines 2
<b>10</b>	Malignancies/Investigating the GI system
<b>11</b>	Signs and symptoms/Examination
<b>12</b>	Review & formative assessment

## **Health Psychology & Diversity**

<b>Session</b>	<b>Topics</b>
<b>1</b>	Introduction, stereotypes and Aging
<b>2</b>	Disability, Health related behaviour
<b>3</b>	Health behaviour, Adherence
<b>4</b>	Stress, Coping
<b>5</b>	Communication, cultural diversity
<b>6</b>	Child development & Communication
<b>7</b>	Formative , Psychological interventions
<b>8</b>	Death & bereavement, sexual
<b>9</b>	Personality
<b>10</b>	Debate, breaking bad news
<b>11</b>	Review & formative assessment

### Third Year syllabus (S5): (Integrated system)

Modules (S5)	Total hours		Total units (21)
	Large group (Theory)	Small groups teaching	
Health & disease in society	30	45	4
Selected component	15	45	3
Head and neck	30	45	4
Reproduction	30	45	4
Infection & immunity I	30	45	4
Clinical Skills Foundation	--	45	2

### Student selected Component (S5)

Session	Topics
1	Critical appraisal
2	Clinical management of endocrine cases
3	Pathophysiology of surgical patients
4	Radiology in Medical emergencies.

### Health & Disease in Society

Session	Topics
1	Introduction, Quality and safety in Healthcare
2	Methods & Evidences
3	Inequality in health
4	Lay belief, health promotions
5	Chronic illness, quality of life
6	Screening
7	Resource allocation
8	Professional & professionalism
9	Patients-Professional relations,
10	Revision

## Head & Neck

Session	Topics
1	Head (components+ Embryology)
2	Anatomy of Neck
3	Major arteries and veins of the neck
4	Embryology of face and nose
5	Temporal Region
6	Autonomic innervation of head and neck
7	Anatomy of orbit and eye
8	Eye disorders
9	Anatomy of Ear and its disorders
10	Anatomy and disorders of nose and paranasal sinuses
11	Anatomy of 5th. And 7th. Cranial nerves
12	Thyroid gland
13	Review & formative assessment

## Reproductive system

Session	Topics
1	Origin of the sexes
2	Control of the reproductive processes
3	Puberty & abnormalities of menstruation
4	Female reproductive system
5	Male reproductive system
6	Infections of the genital tract
7	Review & formative assessment
8	Conception & contraception
9	Pregnancy
10	Fetal growth & development
11	Labour & Birth
12	Lactation & the breast
13	Review & formative assessment

## Infection & Immunity-I

<b>Session</b>	<b>Topics</b>
<b>1</b>	An introduction to Infection.
<b>2</b>	An Infection Model
<b>3</b>	Acute sepsis in the Emergency Department.
<b>4</b>	Hospital acquired infections.
<b>5</b>	Travel-related infections and emerging infections
<b>6</b>	Review & formative assessment
<b>7</b>	Blood borne viruses
<b>8</b>	Infections at a surface.
<b>9</b>	Infection prevention.
<b>10</b>	Chronic Infection
<b>11</b>	Review & formative assessment

### Third Year syllabus (S6): (Integrated system)-End of Phase-I

Modules (S6)	Total hours		Total units (25)
	Large group (Theory)	Small groups teaching	
LwLTC	---	120	4
Infection & Immunity-II	30	45	4
Student Selected component	15	45	3
Nervous system	30	45	4
Clinical Pharmacology	30	45	4
Integrative	30	45	4
Clinical Skills Foundation	---	45	2

### Student selected Component (S6)

Session	Topics
1	Hematologic Lab investigations
2	Biochemistry Lab Investigations
3	Immunization Program in Iraq.
4	Communications skills

### Clinical Pharmacology

Session	Topics
1	Clinical Pharmacology and Therapeutics: Module Introduction
2	Pharmacology – General Principles 2
3	Clinical Endocrine Pharmacology
4	Diabetic Pharmacology
5	Drugs treating Infection
6	Review & formative assessment
7	Drugs treating Arthritis
8	Pharmacology of Pain Management
9	Blood Pharmacology
10	Drugs and the Kidney
11	Drugs treating Cardiac Arrhythmias
12	Neuropharmacology
13	Review & formative assessment

## **Infection & Immunity-II**

<b>Session</b>	<b>Topics</b>
<b>1</b>	Diagnostic Medical Microbiology
<b>2</b>	The Immunocompromised host
<b>3</b>	Upper and lower Respiratory infections
<b>4</b>	Foodborn microbial diseases: Bacteria causing food poisoning. Gastroenteritis due to viral causes
<b>5</b>	Infection during pregnancy
<b>6</b>	Review & formative assessment
<b>7</b>	Infection in Neonates
<b>8</b>	Some helminthic infections. Some Protozoa infections
<b>9</b>	Fungal infections
<b>10</b>	Autoimmunity (Principle and cases)
<b>11</b>	Cytokines in diseases
<b>12</b>	Review & formative assessment

## **Nervous system**

<b>Session</b>	<b>Topics</b>
<b>1</b>	Introduction to Structure and Development of Nervous System.
<b>2</b>	The Environment of the CNS.
<b>3</b>	Somatic Sensation & the Sensory Pathways.
<b>4</b>	The Motor System
<b>5</b>	Motor Disorders & Review of Patterns of Sensory Deficits.
<b>6</b>	Pain.



<b>7</b>	Neurotransmission & Its Clinical Correlates
<b>8</b>	Special Sense Organs – The Eye and the Ear.
<b>9</b>	Strokes, Head Trauma & CNS Imaging.
<b>10</b>	Neuroradiology
<b>11</b>	Consciousness and Its Disturbances
<b>12</b>	Higher Functions of the Brain
<b>13</b>	Integration & Pathology
<b>14</b>	Revision & Formative Assessment

### **Integrative**

<b>Session</b>	<b>Topics</b>
<b>1</b>	Putting it all Together - Hypoxia
<b>2</b>	Fluid Balance and its Application to Intravenous Fluid Therapy
<b>3</b>	Acid Base Balance
<b>4</b>	Professionalism in Clinical Practise
<b>5</b>	Cardiac Failure
<b>6</b>	Hypersensitivity Reactions
<b>7</b>	Defensive Failure and the Bone Marrow
<b>8</b>	Neurology and Stroke
<b>9</b>	Anaemia
<b>10</b>	Blood and Bleeding Dysfunction
<b>11</b>	The Liver in Health and Disease
<b>12</b>	Revision & Formative Assessment

**M.B.Ch.B Phase II**  
**University of Duhok/College of Medicine**  
**2021-2022**

No.	Block	Credits
1	Gastrointestinal care	8
2	Musculoskeletal care	8
3	Cardio-Respiratory care	8
4	Endocrine, Renal care	8
5	Mental care	8
6	Selected component	3
<b>Total credits</b>		<b>43</b>

<b>Block: Cardio-Respiratory care</b>
<p>The teaching of cardio-respiratory care aims to provide:</p> <ul style="list-style-type: none"> <li>-Generic teaching in history taking and examination skills</li> <li>-General, cardiovascular and respiratory medicine experience based on the activities of the teams</li> <li>-Experience of acute medical emergencies admitted to the CDU/MAU and CCU</li> </ul>
<p>Vertical themes related to cardiovascular and respiratory medicine:</p> <ul style="list-style-type: none"> <li>-Basic Sciences</li> <li>-Pathology</li> <li>- Microbiology</li> <li>-Imaging</li> <li>-Clinical Pharmacology</li> <li>-Palliative Care</li> <li>-Professionalism / Law and Ethics</li> </ul>

### Block: Musculoskeletal care

By the end of the block students should be able to:

- identify the important causes of the following symptoms
- pain arising in multiple small joints
- pain arising in a solitary large joint
- pain and/or paraesthesia arising in the spine
- pain arising in soft tissues
- Take a history considering physical psychological and social aspects.
- Elicit selectively, normal and abnormal physical signs in the musculoskeletal system.
- Use investigations selectively and demonstrate an understanding of the use of radiological investigations with regard to musculoskeletal disease
- Use information sources and appraise evidence as appropriate for musculoskeletal disease
- Formulate and implement management plans with regard to prescribing mild, intermediate and strong analgesics.
- Offer advice for patients whose pain is not satisfactorily controlled by pharmacological agents
- Communicate effectively and sensitively in dealing with patients with chronic musculoskeletal disease; and negotiate, where appropriate, alterations in lifestyle that would be in the patient's best interest
- Identify the extent and severity of injury following trauma
- Perform basic first aid and resuscitative care in a patient with Musculo-skeletal trauma
- Identify and discuss with the patient potential risk factors for further injury and the way they may be reduced
- All of the above tasks should be based on a sound basic knowledge of applied anatomy, physiology and pharmacology.

The student should be able to express the above competencies in the context of:

- Musculoskeletal emergencies
- Chronic inflammatory poly arthropathy
- Autoimmune disease
- Tumors affecting bones
- Metabolic bone disease
- Low back pain, sciatica and radicular pain
- Degenerative joint disease
- Childhood musculoskeletal problems

### **Block: Gastrointestinal care**

The topics involved in the GIT-Block are:

Approach to upper and lower GI bleeding.

-Approach to dysphagia.

-Approach to GERD.

-GI oncology.

-Morbid obesity.

-Approach to salivary gland diseases.

-Minimally invasive GI procedures and endoscopy.

-Approach to GB diseases and CBD stones.

-Approach to chronic liver disease.

-Approach to Acute & Chronic diarrhea.

-Approach to Malabsorption.

-Approach to dyspepsia and PU.

-Approach to perianal diseases.

-Non-neoplastic diseases of the colon (diverticulosis, angiodysplasia, volvulus, infectious colitis, ...etc.).

-Approach to groin hernias.

-GI Radiology.

-Approach to intestinal obstruction.

-Approach to IBD.

-Approach to stomas.

-Approach to abdominal trauma.

-Approach to abdominal wall lumps and RIF masses.

-Approach to wound healing & incisional hernias

-Short bowel syndrome.

-Acute appendicitis and appendicular mass.

-Approach to hydatid disease.

-Approach to obstructive jaundice.

-Approach to splenectomy.

-Approach to acute and chronic pancreatitis.

-Approach to acute abdomen & intra-abdominal abscesses.

-Approach to Viral, bacterial, fungal and parasitic infections of the GIT (excluding hepatitis)

**Block: Endocrine, Renal care**

Topics involved in the block: Endocrine, Renal care are:

- Diabetes Mellitus.
- Thyroid and parathyroid diseases.
- Pituitary and hypothalamus diseases.
- Adrenal gland diseases.
- Lipid disorders
- Acute and Chronic Kidney Injury
- Renal replacement Therapy
- Glomerular diseases.
- Disorders of Gonads

## Fifth Year

Subjects	Total hours		Total units
	Theory	Practical	
Medicine	75	160	10
Pediatrics	30	80	5
Surgery	90	120	10
Gynecology	30	60	4
Dermatology	30	36	3
Ophthalmology	30	60	4
ENT	30	60	4
Psychiatry	30	36	3
Radiology	30	60	4



Department: Medicine

Year: 5<sup>th</sup> year

Term: 1<sup>st</sup> & 2<sup>nd</sup>

Subject: Medicine (theory)

Hours Per week: 2.5 hours

Total No. of hours: 75 hours

<b>Topics</b>	<b>Hours</b>
<b>Neurology :</b> Introduction to the nervous system Stroke. Epilepsy. Demyelinating Disorders & Multiple sclerosis. Headache. Movement Disorders. Spinal Cord Diseases. Brain Tumor. Idiopathic Intracranial Hypertension, Normal Pressure Hydrocephalus CNS Infections. Peripheral Nerve Diseases. Muscle Diseases. Neuromuscular Junction Diseases. Neurodegenerative Diseases (Dementia, MND, Ataxic Disorders).	35 hours
<b>Nephrology:</b> Anatomy, physiology and investigation of renal system. Acute Renal Failure. Chronic Renal Failure. Glomerulonephritis. Interstitial Nephritis (Acute and Chronic). Cystic disease of the kidneys. Renal tubular acidosis. Vascular diseases of the kidneys. Urinary tract infections.	9 hours
<b>Hematology:</b> Anemia. Megaloblastic anemia. Anemia of chronic disease: management Hemolysis. Autoimmune hemolytic anemia. Hemoglobinopathies. Aplastic anemia. Myeloproliferative disorders. Hemostasis. Leukemias. Lymphoma.	14 hours
<b>Oncology</b>	4 hours
<b>Environment and Toxicology</b>	4 hours



<b>Rheumatology:</b> Introduction Back and Neck pain. Osteoarthritis. Rheumatoid arthritis. Crystal induced arthritis. Systemic lupus erythematosus (SLE). Psoriatic arthritis and Behcets disease Seronegative arthropathy. Juvenile chronic arthritis. Systemic vasculitis. Myositis.	9 hours
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Department: Medicine  
Year: 5<sup>th</sup> year

Subject: Medicine (practical)  
Hours Per week: 16 hours for 10 weeks  
Total No. of hours: 160 hours

Clinical courses each course (10) week

Practical sessions	Hours
Clinical session learn the student how to apply the subjects which take in theory to clinical practice ,and know how to do neurological examination , and how to examine the patient with rheumatological, renal and hematological disease, and deal with acute common emergency and management of common diseases.	160 hours

Department: Pediatrics  
Year: 5<sup>th</sup> year  
Term: 1<sup>st</sup> & 2<sup>nd</sup>

Subject: Pediatrics (theory)  
Hours Per week: 1 hour  
Total No. of hours: 30 hours

Topics	Hours
Neonatology	12
Hematology	12
Neurology	6

Department: Pediatrics  
 Year: 5<sup>th</sup> year

Subject: Pediatrics (practical)  
 Hours Per week: 8 hours for 10 week  
 Total No. of hours: 80 hours

Practical sessions	Hours
These are clinical sessions to establish the clinical features by history of examination, to enable the student to gain skills of clinical practice in different aspects of pediatric field, which focusing on the common health problems among children in our community.	80

Department: Surgery  
 Year: 5<sup>th</sup> year  
 Term: 1<sup>st</sup> & 2<sup>nd</sup>

Subject: Surgery (theory)  
 Hours Per week: 3  
 Total No. of hours: 90 hours

Topics	Hours
<p><b><u>ORTHOPAEDICS:</u></b></p> <ul style="list-style-type: none"> <li>- Introduction to fractures.</li> <li>- Principles of fracture treatment</li> <li>- Fracture and dislocations of the upper limb</li> <li>- Fracture and dislocations of the lower limb</li> <li>- Fractures of the pelvis</li> <li>- Introduction to orthopedics</li> <li>- Diagnosis and treatment of orthopedic disorders</li> <li>- Osteomyelitis and septic arthritis</li> <li>- Tuberculosis of bone and joint</li> <li>- Osteoarthritis</li> <li>- Osteochondritis</li> <li>- Metabolic bone diseases</li> <li>- Shoulder</li> <li>- Elbow</li> <li>- Wrist and hand (including hand infections)</li> <li>- Hip</li> <li>- Knee</li> <li>- Ankle and foot (including foot infections)</li> <li>- Spine</li> <li>- Tumours of bone</li> <li>- Peripheral nerve injuries</li> </ul>	30
<b><u>Chest and Cardiovascular surgery</u></b>	6
<p><b><u>Urology</u></b></p> <ul style="list-style-type: none"> <li>- Symptomatology and investigations</li> <li>- Congenital anomalies of the U.T.</li> <li>- Traumatic injuries.</li> <li>- Infections of the U.T.</li> <li>- T.B. and Bilharziasis</li> <li>- Calculus disease of the U.T.</li> </ul>	

<ul style="list-style-type: none"> <li>- Renal failure and Transplantation.</li> <li>- Tumors</li> <li>- Urinary diversion.</li> <li>- Infertility.</li> <li>- Neurogenic bladder</li> <li>- Hydronephrosis</li> <li>- B.P.H.</li> <li>- Ca- prostate.</li> <li>- Testicular tumors</li> <li>- Intrascrotal swellings</li> <li>- Bladder neck obstruction</li> <li>- Undescended testicles</li> <li>- Urethral strictures</li> <li>- Hematuria.</li> </ul>	26
<b><u>Anesthesia</u></b>	6
<b><u>Plastic Surgery</u></b>	4
<b><u>Pediatric Surgery</u></b> <ul style="list-style-type: none"> <li>- Embryology of G.I. tract and current theories of G.I. tract anomalies &amp; neonatal obstruction</li> <li>- Congenital megacolon and imperforate anus</li> <li>- Abdominal pain &amp; G.I. bleeding &amp; childhood</li> <li>- tumors in children</li> <li>- thoracic surgical problems diaphragmatic hernia and tracheo-sophageal fistula</li> <li>- main pediatric urological surgical conditions</li> <li>- congenital abdominal wall defects</li> </ul>	9
<b><u>Neurosurgery</u></b> <ul style="list-style-type: none"> <li>- Neurological investigations</li> <li>- Head injuries</li> <li>- Intra cranial space occupying lesions</li> <li>- Congenital abnormalities</li> <li>- Spinal cord compression</li> <li>- Surgical aspects of pain</li> </ul>	9

Department: Surgery  
 Year: 5<sup>th</sup> year

Subject: Surgery (practical)  
 Hours Per week: 24 hours for 5 weeks  
 Total No. of hours: 120 hours

Practical sessions	Hours
Orthopedics: - general orthopedic examination - management of fractures and orthopedic problems - specific joint examination - Traumatology - operative procedure - pre and post operative care - Splint and POP	36
Urosurgery: clinical examination and management of common urological surgical problems	26
Neurosurgery: Basic principles on the diagnosis and management of common neurosurgical problems.	16
Vascular surgery: clinical examination, investigation and management of common cardiovascular diseases.	8
Pediatric surgery: during the clinical course: the students should: - Review the knowledge about the important pediatric surgical conditions mentioned in the course book regarding their incidence, pathology, clinical presentation, and management. - Have a good basic clinical examination skill and good communication and thinking skills detect the common surgical problems and know their lines of management.	18
Anesthesia: Assessment of the patient preoperatively, the guidelines to achieve the evaluation and routine investigations needed preoperatively. Management of airway How to maintain anesthesia Monitoring the patient Intravenous cannulation and fluid administration Local and regional anesthesia Postoperative care" complications and their management"	8
Plastic surgery& burn: clinical training on subjects mentioned in the theoretical part (above)	8

Department: Surgery  
 Year: 5<sup>th</sup> year

Subject: Ophthalmology (theory)  
 Hours Per week: 1 hour  
 Total No. of hours: 30 hours

Topics	Hours
<b><u>Ophthalmology</u></b> -Anatomy of the eye -Congenital eye disorders -Diseases of the conjunctiva -Corneal injuries -Diseases of the cornea -Diseases of the iris and the ciliary body -disease of the retina -vascular disorder of the retina -retinal dystrophy & degeneration -Glaucoma -Cataract -Anatomy and diseases of the eye lids -Anatomy and diseases of the naso-lacrimal apparatus -Ocular motility and motility disorders -Ocular emergency and trauma -Squint -The orbit -The use of ophthalmoscope -The eye in systemic diseases	30

Department: Surgery  
 Year: 5<sup>th</sup> year

Subject: Ophthalmology (Practical)  
 Hours Per week: 6 hours for 10 weeks  
 Total No. of hours: 60 hours

Practical sessions	Hours
Ophthalmology: clinical training on subjects mentioned in the theoretical part (above)	60

Department: Surgery  
Year: 5<sup>th</sup> year

Subject: Otorhinolaryngology (theory)  
Hours Per week: 1 hour  
Total No. of hours: 30 hours

Topics	Hours
<p><b><u>Otorhinolaryngology</u></b></p> <ul style="list-style-type: none"> <li>- Learning Objectives</li> <li>- Introduction to Otolaryngology-Head and Neck Surgery</li> <li>- Review of Anatomy</li> <li>- Examination of the Head and Neck</li> <li>- Audiology</li> <li>- Otolaryngologic Emergencies</li> <li>- Common Diseases of the External and Middle Ear</li> <li>- Inner Ear Disease: Hearing Loss</li> <li>- Inner Ear Disease: Vertigo</li> <li>- Facial Paralysis</li> <li>- Nose and Paranasal Sinuses, Olfaction and Taste</li> <li>- Inflammatory Disorders of the Pharynx</li> <li>- Salivary Gland Disorders</li> <li>- Disorders of Speech and Swallowing</li> <li>- Head and Neck Tumors</li> </ul>	30

Department: Surgery  
Year: 5<sup>th</sup> year

Subject: Otorhinolaryngology (Practical)  
Hours Per week: 6 hours for 10 weeks  
Total No. of hours: 60 hours

Practical sessions	Hours
Otorhinolaryngology: clinical training on subjects mentioned in the theoretical part (above)	60

Department: Surgery  
Year: 5<sup>th</sup> year

Subject: Radiology (theory)  
Hours Per week: 1 hour  
Total No. of hours: 30 hours

Topics	Hours
<p><b><u>J-Radiology</u></b></p> <ul style="list-style-type: none"> <li>- Introduction</li> <li>- The esophagus</li> <li>-Stomach and duodenum</li> <li>- The small intestine</li> <li>- The acute abdomen</li> <li>-The colon</li> <li>-The diaphragm</li> <li>-The biliary tract</li> <li>-Miscellaneous</li> <li>- Genito-urinary Systems</li> <li>I.V.U</li> <li>-Bones</li> <li>-Chest diseases</li> </ul>	30

Department: Surgery  
Year: 5<sup>th</sup> year

Subject: Radiology (Practical)  
Hours Per week: 6 hours for 10 weeks  
Total No. of hours: 60 hours

Practical sessions	Hours
Radiology: clinical training on subjects mentioned in the theoretical part (above)	60

Department: Obstetrics and Gynecology  
Year: 5<sup>th</sup> year  
Term: 1<sup>st</sup> & 2<sup>nd</sup>

Subject: Gynecology (theory)  
Hours Per week: 1 hour  
Total No. of hours: 30 hours

Topics	Hours
- Embryology of the Reproductive System	1 hour
- Anatomy of the Reproductive System	2 hours
- Physiology of the Reproductive System	2 hours
- Abnormality of Menstruation	6 hours
- Gynecological Infections	3 hours
- Diseases of the Vulva and Vagina	2 hours
- Diseases of the Cervix	3 hours
- Diseases of the Uterus	2 hours
- Displacement of the Uterus	2 hours
- Diseases of the Ovary and Fallopian Tubes	2 hours
- Contraception	2 hours
- Infertility	2 hours
- Menopause and Hormone Replacement Therapy	1 hour

Department: Obstetrics and Gynecology  
Year: 5<sup>th</sup> year

Subject: Gynecology (practical)  
Hours Per week: 6 hours for 10 weeks  
Total No. of hours: 60 hours

Practical sessions	Hours
- History – Theoretical Foundation of History Taking History taking of gynecological patients (last menstrual period; gravida, para, abortion; chief complaint; history of present illness; past obstetric history; review of systems; gynecological history and menstrual history in detail; medical and surgical history; social history)	30 hours
- General and Gynecologic Examination Examination of the breast; abdominal examination (superficial and deep palpation); examination of the vulva, bimanual and speculum examination (on model); laparoscopy	30 hours

Department: Medicine

Year: 5<sup>th</sup> year

Term: 1<sup>st</sup> & 2<sup>nd</sup>

Subject: Dermatology (theory)

Hours Per week: 1 hour

Total No. of hours: 30 hours

Topics	Hours
Skin anatomy, histology & physiology	1
Primary and secondary skin lesions	2
Developmental & hereditary skin disease	1
Viral skin disease	2
Bacterial skin disease	2
Fungal skin disease	2
Parasitic skin disease	1
Allergic, irritant & atopic eczemas	2
Papulo squamous skin disease	2
Acne , rosacea	1
Urticarias & angioedema	1
Connective tissues disease and vasculitis	1
Reactive skin disease and purpuras	1
Skin disease due to physical agents	1
Immuno bullous skin diseases	1
Disorders of pigmentation	1
Diseases of skin appendages	1
Benign skin tumors , Premalignant and malignant non melanoma skin tumors , melanoma	3
Sexually transmitted infections	1
Topical therapy	1
Skin manifestations of internal disease	2

Department: Medicine

Year: 5<sup>th</sup> year

Term: 1<sup>st</sup> & 2<sup>nd</sup>

Subject: Dermatology (Practical)

Hours Per week: 6 hours for 6 weeks

Total No. of hours: 36 hours

Practical sessions	Hours
The practical sessions aim teaching the students the skills of taking good history, inspection of the skin , recognizing the different primary and secondary skin lesions , Evaluation and differential diagnose , also the treatment of particular cases presented to the students , introduction of the diagnostic tools and UV and teaching them the proper use of them	36



Department: Medicine

Year: 5<sup>th</sup> year

Term: 1<sup>st</sup> & 2<sup>nd</sup>

Subject: Psychiatry (theory)

Hours Per week (1 hour)

Total No. of hours: 30 hours

Topics	Hours
- Signs and symptoms in Psychiatry	3 hours
- Cognitive disorders	1 hour
- Substance Related Disorders	2 hours
- Schizophrenia and related psychoses	3 hours
- Mood Disorders	3 hours
- Anxiety disorders	3 hours
- Somatoform Disorders	2 hours
- Eating disorders, Anorexia nervosa, Bulimia Nervosa, Obesity	1 hour
- Impulse-Control Disorders	1 hour
- Personality Disorders	2 hours
- Sexual Dysfunctions, Paraphilias, and Gender	2 hours
- Sleep disorders	2 hours
- Psychotherapy, psychopharmacology and other biological therapy	2 hours
<b>- Child Psychiatry</b> Attention-Deficit and Disruptive Behavior Disorders Pervasive Developmental Disorders Elimination Disorders, Attachment Disorders and Mental Retardation	3 hour

Department: Medicine

Year: 5<sup>th</sup> year

Subject: Psychiatry (practical)

Hours Per week: 6 hours for 6 weeks

Total No. of hours: 36 hours

Topics	Hours
1 <sup>st</sup> session: History taking in Psychiatry	36
2 <sup>nd</sup> session: Mental State Examination	
5 sessions: case presentation and discussion (should includes the main psychiatric groups: Psychotic disorders, Mood disorders, Anxiety disorders and Somatoform disorders)	
2 sessions: child and adolescent psychiatry (in Mental Health Center)	
Last session (10 <sup>th</sup> session): clinical exam	
<u>Note:</u> Each group has clinical psychiatry for 10 days (10 sessions).	

## Sixth Year

Subjects	Total term hours		Total units
	Theory	Practical	
Medicine	-	432	14
Surgery	-	432	14
Pediatrics	-	360	12
Obstetrics and Gynecology	-	360	12



Department: Medicine  
Year: 6<sup>th</sup> year

Subject: Medicine (practical)  
Hours Per week: 36 hours for 12 weeks  
Total No. of hours: 432 hours

Practical sessions	Hours
These are clinical sessions to establish the clinical features by history and examination, to learn the student skills to be excellence in clinical practice also clinical session in emergency department to learn how to deal with acute emergencies ,also clinical session to learn how to do clinical procedures like CPR, lumber puncture, Paracentesis, I.V line.....ext. Detail clinical session on presentations, examination and management of common disease on our locality.	432 hours

**Emergency medicine training** involves teaching students of 6th year about the care patients with life-threatening illnesses requiring immediate medical attention. This involves initiating investigations and interventions to diagnose and treat patients in the acute phase and making decisions regarding a patient's need for hospital admission, observation, or discharge.

The syllabus includes the following conditions:

1. Acute hypoglycemic state
2. Diabetic keto- acidosis, hyperosmolar hyperglycemic state
3. Status epilepticus
4. Anaphylaxis
5. Acute coronary syndrome
6. Basic life support, advanced cardiac life support
7. Acid- base disturbances, Hyperkalemia
8. Shock state
9. Syncope
10. Aortic dissection
11. Toxic shock syndromes
12. Endocarditis
13. Tetanus
14. Approach to poisoned patients, CO poisoning, Bites and stings
15. Heat emergencies, hypothermia
16. High altitude disorders
17. Adrenal insufficiency
18. Transfusion therapy

Department: Surgery  
 Year: 6<sup>th</sup> year

Subject: Surgery (practical)  
 Hours Per week: 36 hours for 12 weeks  
 Total No. of hours:432 hours

Practical sessions	Hours
<p>Surgical clinical teaching 12 weeks course in the surgical wards and theatre and emergency departments plus patients follow up ,case sheets , home works, journal club preparations.</p> <p>Students in the sixth year should be involved in the clinical practice and actively share in the discussion on patients clinical conditions. Should attend daily clinical sessions in a twelve weeks course. During these sessions the student given a level of practical knowledge regarding:</p> <ul style="list-style-type: none"> <li>- Interaction with patients</li> <li>- Clinical examination technique</li> <li>- Identification of clinical signs</li> <li>- Interpretation of clinical signs</li> <li>- Differential diagnosis</li> <li>- Main lines of management</li> <li>- Complications</li> <li>- Tutorials and discussion on the common surgical problems faced by the doctors in the post graduate life.</li> </ul> <p>The student is responsible of all the subjects clinical and theoretical taken throughout his learning schedule afforded by the department of surgery in the previous three years as mentioned above. The practical training for each week will be as follows</p> <ul style="list-style-type: none"> <li>- 5 hours per day, 6 days a week in the wards including 8 hours per course in the operating theatre</li> <li>- 1 hour per day 4 days a week seminars and tutorials and Journal presentation</li> </ul> <p><b>- Trauma syllabus for students :</b>            9 topics . Each topic need 2 hour session            In each session there will be 20 mint theory (refreshing of information.</p> <ol style="list-style-type: none"> <li>1-Initial Assessment and Management</li> <li>2- Airway and Ventilator Management</li> <li>3- shock and circulatory failures</li> <li>4-Thoracic Trauma</li> <li>5- Abdominal and Pelvic Trauma</li> <li>6-Trauma to the head and spine</li> <li>7-Musculoskeletal Trauma</li> <li>8-Geriatric Trauma, pediatric trauma and trauma in pregnancy</li> <li>9-Transfer of critical patient to Definitive Care</li> </ol>	432

Department: Pediatrics  
 Year: 6<sup>th</sup> year

Subject: Pediatrics (practical)  
 Hours Per week: 36 hours for 10 weeks  
 Total No. of hours: 360 hours

Practical sessions	Hours
Daily Duties: Each student is responsible for taking the history, physical examination, follow-up, and discussion about the management of his/her patients (each students is responsible for 12 beds)	360
Seminars: Each student is responsible for preparing and presenting one seminar	
Call: Each student is expected to be in the emergency department in the afternoon/evening for 8 days during the course	
Training in primary health care and family medicine In family medicine and communication skills The training will focus on important topics	

Department: Obstetrics and Gynecology  
 Year: 6<sup>th</sup> year

Subject: Obstetrics / Gynecology (practical)  
 Hours Per week: 36 hours for 10 weeks  
 Total No. of hours: 360 hours

Practical sessions	Hours
- Daily Duties: Each student is responsible for taking the history, physical examination, follow-up, and discussion about the management of his/her patients (each students is responsible for 2 beds on the obstetric and gynecological ward during the course); they are also expected to present at least 4 cases to the senior	360
- Seminars: Each student is responsible for preparing and presenting 2 seminars and journal clubs; in addition to the students' seminars, the lecturers present how to deal with the patients, give seminars on family planning, instruments and tools used in obstetrics and gynecology	
- Operative Theater: Each student is expected to be in the operative theater once a week and receive training on the surgical instruments, threads, training how to suture on a model	
- Calls: Each student is expected to be in the labor room (1 <sup>st</sup> stage and 2 <sup>nd</sup> stage ward) in the afternoon/evening for 2 days per week as call for 4 weeks	