حوضي من عدن ... إلى عمان البلقاء





AL-BALQA APPLIED UNIVERSITY FACULTY OF MEDICINE

Study Plan Structure: Bachelor Degree in Doctor of Medicine (M.D)

Name of the Degree: Doctor of Medicine (M.D)

Study plan qualifying student to obtain a Bachelor's degree in Doctor of Medicine (M.D).

This study plan is to be applied on students admitted to the Faculty of Medicine as of the academic year 2015/2016.

The distribution of courses and credit hours for being eligible to be awarded the M.D. degree will be as follows:

Components of the Study Plan:

The study plan of the Doctor of Medicine (M.D) is composed of (256) credit hours distributed as shown below:

First	University Requirements	27 Credit hours
Second	Requirements in Basic Sciences	17 Credit hours
Third	Requirements in Basic Medical Sciences	82 Credit hours
Fourth	Requirements in Clinical Sciences	130 Credit hours
Total		256 Credit hours

Coding System:

Academic level	Cognitive	program	Field of	specialty	Year level	Area	Sequence No.
3	1	5	0	1	2	0	4

1- Specialty Codes (Department Codes):

Code	Specialty	
00	Shared Course (more than one department)	
01	Physiology and Biochemistry	
02	Anatomy and Histology	
03	Pharmacology	
04	Pathology, Microbiology and Forensic Medicine	
05	Family and Community Medicine	
06	Special Surgery	
07	General Surgery	
08	Internal Medicine	
09	Pediatrics	
10	Obstetrics and Gynecology	
11	Anesthesia and Intensive Care	
12	Radiology and Nuclear Medicine	

2- Course Codes:

Course Code	Course Title		
0	Introduction		
1	Neuroscience System		
2	Endocrinology and Metabolism		
3	Cardiovascular System		
4	Respiratory System		
5	Digestive System		
6	Genitourinary System		
7	Blood and Lymphatic System		
8	Musculoskeletal System and Skin		
9	Special Cases		

First:-

University Requirements:

(27) Credit hours distributed as shown below:

A- Obligatory University Requirements: (21) credit hours consisting of:

Course No.	Course Name	Prerequisite	Weekly To	eaching Hours	Credit Hours
			Theory	Practical	
35003101	Arabic Language (1)	-	3	-	3
35003102	Arabic Language (2)	35003101	3	-	3
35004101	English Language (1)	-	3	-	3
35004102	English Language (2)	35004101	3	-	3
35005101	Computer Skills (1)	-	2	3	3
35001101	Military Sciences	-	3	-	3
35002100	National Education	-	3	-	3
	Total	-	20	3	21

B- Elective University Requirements: (6) credit hours, student should choose of the below courses which posed by other departments:

Course No.	Course Name	Credit hours
36001101	Communication Skills	3
36002102	Principles of Psychology	3
36003103	Jordanian Community	3
36004104	Sports for All	3
36005105	Islamic Education	3
36006106	Administrative and Economic Concepts	3
36007107	Agriculture in Jordan	3
36008108	Environment and Society	3

All students must pass the exams in Arabic, English Language and Computer Skills. Who fails in any of these exams should register for remedy courses outside the study plan.

Faculty Requirements:

(229) obligatory credit hours distributed as shown below:

A. Requirements in Basic Sciences.

B. Requirements in Basic Medical Sciences.

C. Requirements in Clinical Sciences.

(17) Credit Hours

(82) Credit Hours

(130) Credit Hours

<u>A- Requirements in Basic Sciences:</u> (17) Credit hours including the following courses:

Course No.	Course Name	Weekly Teaching Hours		Credit Hours
		Theory	Practical	
30203104	General Biology	3	-	3
30203114	General Biology/Practical	-	3	1
30206106	Chemistry for Medical Student	4	-	4
30206131	Organic Chemistry for Medical Students	3	-	3
30201106	Medical Physics	3	-	3
30801101	Computer Skills (2) for Students from Scientific	2	3	3
	Faculties			
	Total	15	6	17

<u>B- Requirement in Basic Medical Sciences:</u> (82) Credit hours including the following courses:

Course No.	Course Name	Weekly Teaching/Training Hours		Credit Hours
		Theory	Practical (Lab/Clinical Training/Field Visits)	
31502110	Anatomy and Embryology	2	3	3
31502111	General Histology	1	3	2
31501100	Introduction to Physiology	2	-	2
31501102	Introduction to Biochemistry	2	-	2
31501221	Biochemistry	3	-	3
31503203	Introduction to Pharmacology	3	-	3
31504204	Introduction to Microbiology	3	-	3
31504205	Introduction to Pathology	2	3	3
31501261	Principles of Genetics and Molecular Biology	3	-	3
31505201	Community Medicine	3	-	3
31505204	Epidemiology and Biostatistics	2	3	3
31505291	Public Health	3	-	3
31500231	Cardiovascular System	4	3	5
31500271	Blood and Lymphatic System	3	3	4
31500251	Digestive System	5	3	6
31504301	Introduction to Medical Immunology	2	-	2
31500381	Musculoskeletal System and Skin	4	3	5
31500341	Respiratory System	4	3	5
31500321	Endocrine System	3	3	4
31500311	Nervous System and Special Senses	5	6	7
31500361	Genitourinary System	5	3	6
31508301	Behavioral Sciences	3	-	3
31505391	Health Economics and Policies	2	-	2
	Total in Credit Hours	69	13	82

Total in Contact Hours	69	39	108

<u>C- Requirements in Clinical Sciences:</u> (130) Credit hours including the following courses:

Course No.	Course Name	Clinical Training in Weeks	Credit Hours
31500401	Introduction to Clinical Medicine and Medical	8	8
	Ethics		
31500402	Medicine (1)	10	10
31507403	General Surgery (1)	10	10
31507412	Clinical Neurosciences	3	3
31508401	Anesthesia and Intensive Care	3	3
31506481	Orthopedic Surgery	4	4
31509491	Primary health Care/ Medicine		3
31509502	Pediatrics (1)	8	8
31508512	Psychiatry	4	4
31506511	Ophthalmology	2	2
31506541	Otolaryngology	2	2
31506561	Urology	2	2
31508582	Dermatology	2	2
31500591	Emergency Medicine	2	2
31504592	Forensic Medicine and Toxicology	1	1
31512593	Diagnostic Radiology	2	2
31505594	Family Medicine	4	4
31503562	Obstetrics and Gynecology (1)	8	8
31503590	Therapeutics	-	3
31509595	Primary Health Care/Pediatrics	-	3
31500691	Elective Clinical Training	8	8
31508602	Medicine (2)	8	8
31507603	General Surgery (2)	8	8
31507602	Pediatrics (2)	8	8
31510662	Obstetrics and Gynecology (2)	8	8
31500692	Graduation Project		6
	Total	115	130

Guidance Plan for Registration Purposes (Annual Plan):

First Year

First Semester			Second Semester		
Course No.	Course Name	Credit Hours	Course No.	Course Name	Credit Hours
30203104	General Biology	3	31502110	Anatomy and Embryology	3
30203114	General Biology/Practical	1	31502111	General Histology	2
20206106	General Chemistry for		31501100	Introduction to Physiology	2
30206106	Medical Students	4			
30201106	Medical Physics	3	30206131	Organic Chemistry for Medical Students	3
30801101	Computer Skills (2)	3		University Req. Course	3
	University Req. Course	3		University Req. Course	3
	Total	17		Total	16

Summer Semester				
Course No.	Course Name	Credit Hours		
31501102	Introduction to Biochemistry	2		
	University Req. Course	3		
	University Req. Course	3		
	Total	8		

Second Year

First Semester		Second Semester			
		Credit	Course		Credit
Course No.	Course Name	Hours	No.	Course Name	Hours
31501221	Biochemistry	3	31500231	Cardiovascular System	5
31504204	Introduction to Microbiology	3	31500271	Blood and Lymphatic System	4
31504205	Introduction to Pathology	3	31500251	Digestive System	6
	Introduction to		31501261	Principles of Genetics and	
31503203	Pharmacology	3		Molecular Biology	3
31505201	Community Medicine	3			
	University Req. Course	3			
	Total	18		Total	18

Summer Semester			
Course No.	Course Name	Credit Hours	
31505291	Public Health	3	
31505204	Epidemiology and Biostatistics	3	
	University Req. Course	3	
	Total	9	

Third Year

First Semester		Second Semester			
Course No.	Course Name	Credit Hours	Course No.	Course Name	Credit Hours
31500381	Musculoskeletal System and Skin	5	31500311	Nervous System and Special Senses	7
31500341	Respiratory System	5	31500361	Genitourinary System	6
31500321	Endocrine System	4	31508301	Behavioral Sciences	3
31504301	Introduction to Medical Immunity	2	31505391	Health Economics and Policies	2
	University Req. Course	3			
	Total	19		Total	18

Fourth Year Include Summer Semester

	Fourth Year		
		Clinical Training	
Course No.	Course Name	in Weeks	Credit Hours
31500401	Introduction to Clinical Medicine and Medical Ethics	8	8
31508402	Medicine (1)	10	10
31507403	General Surgery (1)	10	10
31500412	Clinical Neurosciences	3	3
31506481	Orthopedic Surgery	4	4
31511401	Anesthesia and Intensive Care	3	3
31508491	Primary Health Care / Medicine	-	3
	Total	38	41

Fifth Year Including Summer Semester

	Fifth Year		
		Clinical Training	
Course No.	Course Name	in Weeks	Credit Hours
31509502	Pediatrics (1)	8	8
31510562	Gynecology and Obstetrics (1)	8	8
31508512	Psychiatry	4	4
31506511	Ophthalmology	2	2
31506561	Urology	2	2
31506541	Otolaryngology	2	2
31508582	Dermatology	2	2
31500591	Emergency Medicine	2	2
31504592	Forensic Medicine	1	1
31512593	Diagnostic Radiology	2	2
31505594	Family Medicine	4	4
31503590	Therapeutics	-	3
31509595	Primary Health Care/Pediatrics	-	3
Total		37	43

Sixth Year Including Summer Semester

	Sixth Year		
		Clinical Training	
Course No.	Course Name	in Weeks	Credit Hours
31500691	Elective Clinical Training	8	8
31508602	Medicine (2)	8	8
31507603	General Surgery (2)	8	8
31506902	Pediatrics (2)	8	8
31510662	Gynecology and Obstetrics (2)	8	8
31500692	Graduation Project (Research Project)	-	6
	Total	40	46

Important Notes:

^{*} Students who's Arabic Language is not a mother language can take special courses in Arabic (Arabic courses for Non-Arabic speakers).

^{*} Military Sciences Course is required from Jordanians only. The Non-Jordanian students who have not registered for this course must register and study another course from the optional University requirements courses.

^{*} Make sure to have a copy of the regulations governing the awarding of M.D. degree in faculty of Medicine at Al-Balqa Applied University and read it very carefully for your own benefit.

Course Description

Course Number: 30206131	Course Name: Organic Chemistry for Medical Students	3 Credit Hours	
structural, physical and ch hydrocarbons, unsaturated	science of organic chemistry emical properties of the or hydrocarbons, benzene and reactions for alkyl halides, alco	for medical students. It emphasizes on ganic compounds. It covers saturated aromatic compounds, stereochemistry, phols, phenols, ethers, aldehydes, ketones,	
Course Number: 30206106	Course Name: General Chemistry for Medical Students	(4) Credit Hours	
atomic structure and periodic chemical reactions, explaining	trends. It also provides an intro g the principles of the chemical	nistry. It provides a short review of the oduction to the bonding theories, I calculations, energy changes, reaction cids, bases, nuclear and organic	
Course Number: 30201106	Course Name: Medical Physics	(3) Credit Hours	
motion, Newton's laws of mo	In this course the following material will be covered: One dimensional motion, two dimensional motion, Newton's laws of motion, conservation of energy, the ideal gas, Archimedes' principle, equation of continuity, Bernoulli's equation, optics and radiation.		
Course Number: 30203104	Course Name: General Biology	(3) Credit Hours	
(structure and function), structure and function), structure and molecular metabolism and enzymes, me	This course covers, water and its importance to the environment and organisms, large bio-molecules (structure and function), structure and function of primitive objects, nucleus, mitosis and meiosis, DNA molecule and molecular genetics, DNA techniques, genetics of viruses, bacteria, fungi, cellular metabolism and enzymes, membranes, the origin of species. This course will also cover the general aspects of the following systems: digestive, cardiovascular, immune, reproductive, nervous and		
Course Number: 30203114	Course Name: General Biology Lab	(1) Credit Hour	
Prerequisite 30203104. This course will covers; the n		ly the cell, chemical aspects of animal and cell division.	
Course Number: 31502110	Course Name: Anatomy & Embryology	(3) Credit Hours	
This course covers introduction to gross anatomy of the body parts (upper & lower limbs, thorax, abdomen, head & neck, and anatomy of the nervous system) including; terms, regions, muscles, blood vessels, and nerves. This course also covers general embryology including the development of embryo starting from the zygote, the fetal membranes, placenta and congenital anomaly.			
Course Number: 31502111	Course Name: General Histology	(2) Credit Hours	
This course covers the cell with respect to structure, function and classification, epithelial cells, cell structure of endocrine glands, peripheral blood, connective tissues, bone and cartilage, muscles, nerves, blood vessels, lymph reticular tissue, skin and appendages.			

Course Number:	Course Name:	(2) Credit Hours		
31501100	Introduction to Physiology			
	This course covers the definition of physiology and the systems involved. It includes the study of			
		nysiological units, biological membranes,		
		emodynamics and laws of blood flow		
Course Number:	Course Name:	(2) Credit Hours		
31501102	Introduction to			
	Biochemistry			
		stry and biochemistry, structure of water		
		ds, bases, and buffers. It also covers the		
		s, lipids, and amino acid, structure and		
		zymes including their general properties,		
classification, kinetics, mecha	nisms of inhibition and regulat	ion.		
Course Number:	Course Name:	(3) Credit Hours		
31501221	Biochemistry			
	This course covers nucleic acids and nucleotides and gene structure. It also covers energy metabolism			
	•	oxidative phosphorylation. The course		
_	lipid metabolism, nitrogen, am	ines, acids in addition to nutrients and		
vitamins.				
Course Number:	Course Name: (3) Credit Hours			
31503203	Introduction to			
	Pharmacology			
This course covers the study of general characteristics of drugs and their historical development, drug				
		amics including mechanisms of action,		
		metabolism and excretion, drug reactions		
		rug information sources. It also covers		
	s, mechanisms action, pharmac	odynamics and side effects of		
antimicrobial agents and antic				
Course Number:	Course Name:	(3) Credit Hours		
31504204	Introduction to			
	Microbiology			
		espect to classification and structure of		
_	_	tics, growth and replication, and their		
		the types of microorganisms that cause		
	nesis, and methods of diagnosis			
Course Number:	Course Name:	(3) Credit Hours		
31504205	Introduction to Pathology			

Introduction to Pathology 31504205

This course covers the study of cell injury including its types, causes, and mechanisms, cellular adaptation to growth and differentiation, inflammation including its types and mechanisms, cellular healing, infections and its causes and characteristics, tumors and neoplasia, types of cancer, its mechanisms of occurrence, characteristics and epidemiology, and circulatory disorders including edema, congestion, thrombosis, infarction and shock.

Course Number:	Course Name:	(3) Credit Hours
31504301	Introduction to Medical	
	Immunology	

This course covers the immune system including types of cells and tissues, their distribution in the body, their functions, growth, development and differentiation, antigens and their characteristics, antibodies and their types and functions, serologic reactions, the complement system and its functions and activation, interaction between cells in the generation of the immune response, and immunologic

disorders including autoimmunity, hypersensitivity, tumor immunology, immunology of transplantation, and immunodeficiency diseases. Also it covers the drugs used in the treatment of these diseases.

Course Number:	Course Name:	(3) Credit Hours
31505201	Community Medicine	

This course covers the topics of population science, primary health care, mother and child health, ecology, health care systems and health planning. It also covers the concept of environmental health, study the sources of pollution, classification of pollutants; including water, air, soil and occupational pollutants, the relationship between pollution and work and social behavior, the effect of pollution on health and methods of prevention of pollution and equipment used in this regard.

Course Number:	Course Name:	(3) Credit Hours
31505291	Public Health	

This course covers health in the world from the aspects of measuring health and diseases in communities and the reasons of their disparities and diseases burden, health equity, culture and health, environmental health, chronic diseases, non-communicable disease, infectious diseases, mother and child health, breastfeeding, nutrition, child development and mental health. The course also covers health systems, health challenges especially to developing and emerging nations with limited resources, health priorities for population groups with diverse cultural backgrounds, catastrophes and emergencies, globalization and health, international human rights, social justice, and international health regulations.

Course Number:	Course Name:	(3) Credit Hours
31505204	Epidemiology and Biostatistics	

This course covers analytical and descriptive epidemiology, the epidemiology of infectious and chronic diseases; transmission of infectious diseases, descriptive statistics, the theory of probabilities, levels of significance, hypothesis testing, regression and correlation and the use of statistics in epidemiology.

Course Number:	Course Name:	(2) Credit Hours
31505391	Health Economics and	
	Policies	

This course aims to introduce students to the general concepts of health economics and health policies. The course will cover the topics of health value, demand on health care, health insurance markets, health care management, governmental health insurance programs, health reform policies, health expenditure control, cost analysis and cost effectiveness, health determinants, and health behaviors. It will also cover the economics of bad habits including smoking and alcohol consumption, methods to improve health care delivery, evaluation of medical technology, regulations of health care delivery physicians, components of health care delivery including hospitals and the pharmaceutical industry.

Course Number:	Course Name:	(4) Credit Hours
31500321	Endocrine System	

This course covers the endocrine system from the standpoints of anatomical and histological structure, hormones including their structures, functions, mechanisms of action receptors, and their metabolism in addition to the endocrinology disorders including hyperactivity or hypoactivity, immune-mediated diseases, benign and malignant tumors and pharmacological properties of hormones and drugs used in the treatment of endocrine diseases. The course is concluded by studying the clinical aspects of the endocrine system including signs, symptoms and disease presentation.

Course Number:	Course Name:	(6) Credit Hours
31500251	Digestive System	

This course covers the digestive system including the alimentary tract, liver, biliary tree and the pancreas from the standpoints of anatomical and histological structure and function including motility, secretions, digestion, chemistry of saliva and gastric secretions, bile, pancreatic secretions, and digestive enzymes. It also covers diseases of the digestive system including infections, congenital and acquired malformations, vascular disorders, peptic ulcer, and tumors of the digestive system, immune mediated diseases, and drugs used in the treatment of these diseases as well as the clinical aspects of the system including signs, symptoms, and disease presentation.

Course Number:	Musculoskeletal System	(5) Credit Hours
31500381	and Skin	

This course covers the study of the locomotor system and skin including the anatomy and histology of nerves, muscles and skin; the physiology of nerves and muscles, the biochemistry of muscle contraction and neurotransmission. It also covers the diseases of the skin, muscles and nervous tissues including bacterial, viral, parasitic and fungal infections, together with disturbances of metabolism and genetics of the locomotor system and tumors of muscles, bones and joints. The course covers also the therapeutics of such diseases and their clinical aspects including signs and symptoms, and disease presentation.

Course Number:	Course Name:	(7) Credit Hours
31500311	Nervous System and	
	Special Senses	

This course covers nervous system and special senses from the stand points of anatomy, histology and organization of the central and peripheral nervous system including the brain, spinal cord, and nerves including their motor and sensory functions in addition to the study of vision, hearing and chemical sense, cerebral cortex and intellectual functions, neurotransmission including its chemistry, receptors and neurotransmitters, and chemistry of vision. It also covers diseases of the central nervous system and organs of special senses including bacterial, viral, fungal and parasitic infections, brain edema, hydrocephalus, vascular disturbances, trauma, congenital malformations, tumors, degenerative and immune-mediated disorders and the drugs used for the treatment of these diseases. The course is concluded by covering the clinical aspects of disease that affect the central and peripheral nervous system as well as special senses.

· ·		
Course Number:	Course Name:	(5) Credit Hours
31500231	Cardiovascular System	

This course covers cardiovascular system from the standpoints of anatomy and histology of the heart, veins, arteries and capillaries, functions of the cardiovascular system including the physiology of the heart, membrane properties, heart contractility and its mechanisms, electrical conduction and electrocardiography, heart as a pump and cardiac cycle, blood flow and its disorders, cardiac output, blood pressure regulation, cardiac effort, circulatory disorders, heart failure, and cardiac enzymes and their relationship to myocardial infarction. It also covers diseases of the heart and blood vessels including infections, atherosclerosis, hypertension, ischemic heart diseases, congenital heart diseases and treatment of cardiovascular diseases. The course is concluded by the study of the clinical aspects of the cardiovascular system including signs, symptoms, and disease presentation

Course Number:	Course Name:	(5) Credit Hours
31500341	Respiratory System	

This course covers respiratory system from the standpoints of its anatomy and histology, functions including respiration and its mechanisms and characteristics, airway resistance, gas diffusion in the lung, and gas exchange and transport, pulmonary function tests, chemical properties of oxygen, its transport and abnormalities and respiratory alkalosis and acidosis. It also covers diseases of the

respiratory tract including infections, vascular, obstructive, occupational and immune mediated diseases, tumors of the respiratory tract and pharmacologic treatment of these diseases. The course is concluded by covering the clinical aspects of the system.

Course Number:	Course Name:	(4) Credit Hours
31500271	Blood and Lymphatic	
	System	

This course covers the cellular elements of lymph, blood and the histology of both central and peripheral lymphatic systems, including bone marrow, thymus, spleen and lymph nodes. It also covers the production of blood cells, the physiology of tissue fluids, lymph and plasma including the functions of these fluids and cells, bleeding, coagulation, chemistry of blood and lymph together with the structure of hemoglobin, its functions and hemoglobinopathies, plasma proteins, immunological properties of plasma globulins, complement, immunological mechanisms, the diseases that affect blood and the lymphatic system including disturbances of red blood cells, various types of anemia; disturbances of white blood cells including their numbers and functions; leukemia's and lymphomas; disturbances of bleeding and coagulation; diseases of the spleen and thymus; therapeutics of blood and lymphatic diseases. The course also covers the clinical aspects of hematologic and lymphoreticular diseases.

Course Number:	Course Name:	(6) Credit Hours
31500361	Genitourinary system	

This course covers male and female genitourinary systems from the standpoints of anatomy and histology and function including renal physiology which covers glomerular filtration, renal tubule functions, acid base balance and the role of the kidney in that. It also covers the physiology of the reproductive system of males and females, hormones and their functions as well as diseases of the genitourinary system and breast including infections, benign and malignant tumors, inflammation, placental disorders, gestation, infertility, renal failure and the treatment of these diseases. The course is concluded by covering the clinical aspects of the system including the study of signs, symptoms, and disease presentation.

Course	Number:	Course Name:	(3) Credit Hours
315	508301	Behavioral Sciences	

This course is an introduction to and survey of the science of human behavior and mental processes. There is a primary emphasis on the application of scientific reasoning and the empirical method to the study of topics such as learning and cognition, the biological bases of behavior, personality, motivation and emotion, social and group dynamics, developmental processes, and behavioral disorders and treatment.

Course Number:	Course Name:	(8) Credit Hours
31500401	Introduction to Clinical	(8 Weeks)
	Medicine and Medical	
	Ethics	

This course covers communication skills with patients and their relatives and the skills of history taking and physical examination of different body systems and the study of signs and symptoms of the diseases that affect the body through clinical training, lectures and seminars over an eight week period. The course also covers the topics of medical informatics and medical ethics through lectures, seminars and practical training.

Course Number:	Course Name:	(10) Credit Hours
31508402	Medicine (1)	(10 Weeks)

This course covers through ten weeks of clinical training, lectures, seminars and group discussions diseases that affect humans including methods of history taking and performing the physical examination to reach into a diagnosis by studying these signs and symptoms. Additionally the course

covers the therapeutics and interventions used in the treatment of such diseases.			
Course Number:	Course Name:	(10) Credit Hours	
31507403	General Surgery (1)	(10 Weeks)	
This course covers surgical d		nt body systems, including history taking	
and physical examination to	reach into a diagnosis and the	surgical methods used for their treatment	
and patient follow up after su	rgery through clinical training,	lectures, seminars and group discussions.	
In addition, students will be e	xposed to clinical training in a	nesthesia and critical care.	
Course Number:	Course Name:	(3) Credit Hours	
31500412	Clinical Neurosciences	(3 Weeks)	
This course covers diseases that affect the central and peripheral nervous system including infections,			
_		n addition, the course covers road traffic	
		s including intracranial hemorrhage and	
		oper physical examination to reach into	
		weeks, in neurology and neurosurgery in	
addition to lectures, seminars		(2) (1) 12 11	
Course Number:	Course Name:	(3) Credit Hours	
31511401	Anesthesia and Intensive Care	(3 Weeks)	
This course covers through a		eminars methods in modern anesthesia in	
		burse also covers the management of the	
severe and chronic pain.	mensive care patients. The co	disc also covers the management of the	
severe und emome pum.			
Course Number:	Course Name:	(4) Credit Hours	
31506481	Orthopedic Surgery	(4 Weeks)	
This course covers specific su	rgical specialties through the s	tudy of signs and symptoms, etiology and	
means of clinical, laboratory	and radiological diagnoses, in	addition to ways of medical and surgical	
treatment including physiothe	erapy and rehabilitation for a	period of four weeks of clinical training	
including lectures seminars ar	nd group discussions.		
Course Number:	Course Name:	(3) Credit Hours	
31508491	Primary Health Care/		
	Medicine		
<u>*</u>	•	y Health Care (PHC) concepts, principles	
as well as different PHC programs including reproductive health and safe motherhood. Medical			
students will spend three week period in PHC-medicine rotation in PHC centers. Students during this			
rotation are exposed to different health problems commonly seen in these PHC centers. Their role			
includes communication with patients, physical examination and active participation in management			
plan. Lectures and seminars are conducted on common disease as well as on disease prevention and			
health promotion. These sessions will focus on learning clinical skills essential to medicine, and will			
include hands-on, team-based and case-based learning. Course Number: Course Name: (8) Credit Hours			
31509502	Pediatrics (1)	(8) Credit Hours (8 Weeks)	
	1 culatifics (1)	(O WEEKS)	
This course covers child development and growth both mentally and physically since birth, pediatric care and prevention and control of diseases of childhood. It also covers diseases affecting children, its			
care and prevention and contr	<u> </u>	ntally and physically since birth, pediatric	
	ol of diseases of childhood. It	ntally and physically since birth, pediatric also covers diseases affecting children, its	
etiology, mechanisms, symptom	ol of diseases of childhood. It atoms and signs, diagnosis, pre	ntally and physically since birth, pediatric also covers diseases affecting children, its evention and treatment of these diseases	
etiology, mechanisms, sympomedically or surgically throu	ol of diseases of childhood. It atoms and signs, diagnosis, pre	ntally and physically since birth, pediatric also covers diseases affecting children, its	
etiology, mechanisms, symptom	ol of diseases of childhood. It atoms and signs, diagnosis, pre	ntally and physically since birth, pediatric also covers diseases affecting children, its evention and treatment of these diseases	

51508512	Psychiatry	(4 Weeks)	
This course covers psychiatric disorders affecting humans, their etiology, mechanisms symptoms and			
		d psychiatric interventions. It also covers	
		and geriatric disorders, drug abuse and	
narcotic and alcohol addiction	n, and psycho-sexual disorders.	These topics are covered through clinical	
training for four weeks in ps	ychiatric outpatient clinics and	l hospitals through lectures, seminars and	
group discussions.			
Course Number:	Course Name:	(2) Credit Hours	
31506511	Ophthalmology	(2 Weeks)	
This course covers diseases of		Fractive errors and ways of their diagnosis	
	· · · · · · · · · · · · · · · · · · ·	riod of clinical training, lectures, seminars	
and group discussions.	r	6,	
Course Number:	Course Name:	(2) Credit Hours	
31506541	Otolaryngology	(2 Weeks)	
		ether with disturbances of hearing, speech	
		ogy and means of clinical, laboratory and	
	• • • • •	ing of balance, together with the ways of	
		ly, and prevention and control, through a	
		seminars and group discussions.	
two week period of programm	ned chinical training, lectures, s	emmars and group discussions.	
Course Number:	Course Name:	(2) Credit Hours	
31506561	Urology	(2 Weeks)	
		including infections, obstructive lesions,	
		d treatment through a two week clinical	
training, lectures and seminar		d treatment through a two week chilical	
Course Number:	Course Name:	(2) Credit Hours	
31508582		(2) Credit Hours	
	Dermatology	(2 Weeks)	
		es and pigmentation disorders involving	
		s well as their epidemiology through two	
	tures, seminars and group disci		
Course Number:	Course Name:	(2) Credit Hours	
31500591	Emergency Medicine	(2 Weeks)	
		cluding the principles of diagnosis and	
-	•	anagement of accidents and casualties and	
the legal aspects in medical p		(1) C 14 II	
Course Number:	Course Name:	(1) Credit Hours	
31504592	Forensic Medicine and	(1 Week)	
	Toxicology		
	This course covers training in management of accidents and casualties and the legal aspects in		
medical practice, medicolegal accidents, medicolegal death, medicolegal responsibilities as well as			
_	al accidents, medicolegal deatl	n, medicolegal responsibilities as well as	
criminal investigations and m	al accidents, medicolegal death methods of identification of the	n, medicolegal responsibilities as well as dead and the alive through two weeks of	
criminal investigations and m programmed clinical training	al accidents, medicolegal death nethods of identification of the s, lectures, seminars and group	n, medicolegal responsibilities as well as	
criminal investigations and me programmed clinical training agricultural, industrial and me	al accidents, medicolegal death nethods of identification of the t, lectures, seminars and group edical poisoning.	n, medicolegal responsibilities as well as dead and the alive through two weeks of discussions. It also covers occupational,	
criminal investigations and me programmed clinical training agricultural, industrial and me Course Number:	al accidents, medicolegal death nethods of identification of the lectures, seminars and group edical poisoning. Course Name:	n, medicolegal responsibilities as well as dead and the alive through two weeks of discussions. It also covers occupational, (2) Credit Hours	
criminal investigations and more programmed clinical training agricultural, industrial and more Course Number: 31512593	al accidents, medicolegal death aethods of identification of the properties, seminars and group edical poisoning. Course Name: Diagnostic Radiology	n, medicolegal responsibilities as well as dead and the alive through two weeks of discussions. It also covers occupational, (2) Credit Hours (2 Weeks)	
criminal investigations and more programmed clinical training agricultural, industrial and more Course Number: 31512593 This course is achieved through	al accidents, medicolegal death aethods of identification of the pedical poisoning. Course Name: Diagnostic Radiology agh lectures and seminars which	n, medicolegal responsibilities as well as dead and the alive through two weeks of discussions. It also covers occupational, (2) Credit Hours (2 Weeks) ch cover the principles of imaging and its	
criminal investigations and more programmed clinical training agricultural, industrial and more Course Number: 31512593 This course is achieved through	al accidents, medicolegal death aethods of identification of the pedical poisoning. Course Name: Diagnostic Radiology agh lectures and seminars which	n, medicolegal responsibilities as well as dead and the alive through two weeks of discussions. It also covers occupational, (2) Credit Hours (2 Weeks)	
criminal investigations and management clinical training agricultural, industrial and management course Number: 31512593 This course is achieved through clinical applications in the discourse is achieved.	al accidents, medicolegal death acthods of identification of the lectures, seminars and group edical poisoning. Course Name: Diagnostic Radiology agh lectures and seminars which agnosis of diseases and injuries.	n, medicolegal responsibilities as well as dead and the alive through two weeks of discussions. It also covers occupational, (2) Credit Hours (2 Weeks) ch cover the principles of imaging and its	

scanning.

Course Number:	Course Name:	(4) Credit Hours	
31505594	Family Medicine	(4 Weeks)	
		ers family medicine involving the training	
	of students to provide comprehensive medical care for all family members utilizing available		
resources and consultative services with the aim to reach to a quality care. The course also covers			
		ntal health, school health, immunization	
programs as well as medical i	records and medical informatic	S.	
Course Number:	Course Name:	(8) Credit Hours	
31510562	Obstetrics and	(8 Weeks)	
	Gynecology (1)		
		roductive system, infertility, menstrual	
_	• • •	ods of diagnosis and evaluation, medical	
_		n and control. It also covers methods of	
		elivery, normal and instrumental delivery	
	<u> </u>	gnancy, fertility, ectopic and pathological	
<u> </u>	<u> </u>	e course is executed through programmed	
clinical training, lectures sem	<u> </u>	(2) 2 11 11	
Course Number:	Course Name:	(3) Credit Hours	
31503590	Therapeutics		
	- ·	rs will be comprehensively discussed by	
		actions and uses. It will emphasize the	
<u>=</u>		opriate treatment of the particular patient,	
-	_	ons. Emphasis will be given to drug-drug	
and drug-disease interactions.			
L'aurca Numbare	L'ource Name:	(3) Credit Hours	
Course Number: 31509595	Course Name: Primary Health care/	(3) Credit Hours	
Course Number: 31509595	Primary Health care/	(3) Credit Hours	
31509595	Primary Health care/ Pediatrics		
31509595 This course provides a kn	Primary Health care/ Pediatrics owledge base to understand	Primary Health Care (PHC) concepts,	
31509595 This course provides a kn principles as well as different	Primary Health care/ Pediatrics owledge base to understand on PHC programs including re		
This course provides a known principles as well as different child's health and immuniz	Primary Health care/ Pediatrics owledge base to understand at PHC programs including relation. Medical students spend	Primary Health Care (PHC) concepts, productive health and, safe motherhood,	
This course provides a knoprinciples as well as different child's health and immunization. Students during this	Primary Health care/ Pediatrics owledge base to understand on PHC programs including relation. Medical students spend rotation are exposed to different	Primary Health Care (PHC) concepts, productive health and, safe motherhood, d three week in pediatric PHC centers	
This course provides a kn principles as well as different child's health and immunizerotation. Students during this children's. Students will be only the children's	Primary Health care/ Pediatrics owledge base to understand at PHC programs including relation. Medical students spend rotation are exposed to different priented to comprehend the following primary to the state of	Primary Health Care (PHC) concepts, productive health and, safe motherhood, d three week in pediatric PHC centers at health problems commonly seen among	
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rooms covering clinical manifestations of diseases, their diagnosis and treatments in addition to postoperative follow-up. The course is delivered through clinical training, tutorials, lectures, seminars and discussions.

Course Number:	Course Name:	(8) Credit Hours
31509602	Pediatrics (2)	(8 Weeks)

This course covers pediatric diseases, methods of treatment and caring for the child through programmed clinical training in outpatient clinics, Intensive Care Unit, and Neonatal Intensive Care Unit, seminars and group discussions. Students are trained to deal with pediatric diseases through a problem solving approach.

Course Number:	Course Name:	(8) Credit Hours
31510662	Obstetrics and	(8 Weeks)
	Gynecology (2)	

This course covers the study of gynecological diseases, pregnancy, antenatal care, family planning and contraception through programmed clinical training for a period of four weeks in outpatient clinics, delivery room, and obstetrics operation room in addition to lectures, seminars and group discussions.

Course Number:	Course Name:	(6) Credit Hours
31500692	Graduation Project	

Each student will select a medical problem or topic and use either quantitative or qualitative research inquiry to deal with it under the supervision of a teaching staff member. The student must write a research paper at the end of the course about this project and discuss it with his supervisor to be submitted for approval.