



Para-Medical Program

Specialization	Program Requirement
Course Number	21301123
Course Title	Medical Physics
Credit Hours	(3)
Theoretical Hours	(3)
Practical Hours	(0)





Brief Course Description:

- ❖ This course is designed to acquaint the students with knowledge about forces and units of forces, energy changes in the body, heat loss from the body, and breathing mechanism. It helps the students acquire knowledge about electric signals of the body, general properties of sound in the body as a drum (percussion in medicine) and vision defects and corrections. Moreover, it makes the students recognize sources of radioactivity, nuclear medicine imaging devices, and the dose in nuclear medicine and therapy with radioactivity.

Course Objectives:

At the end of this course students should understand:

1. Force, energy, work and power of the body.
2. Muscles and force pressure in the body
3. Electrical signals of the body
4. Sound in medicine,
5. Light and vision,
6. Atoms and atomic Excitation



General Description:

Unit Number	Unit Name	Unit Content	Time Needed
One.	Introduction	<ul style="list-style-type: none"> ▪ Measurements: <ul style="list-style-type: none"> - Measurements - Units 	
Two.	Force, Energy, Work and Power Of The Body	<ul style="list-style-type: none"> ▪ Mass and weight (and Units) ▪ Forces ad units of forces ▪ Newton's law of Motion ▪ Forces of Friction ▪ Energy changes in the body ▪ Heat loss from the body ▪ Heat loss by "radiations, convection and Respirations. ▪ Impulse and Momentum 	
Three.	Muscles And Force	<ul style="list-style-type: none"> ▪ forces affect the body <ul style="list-style-type: none"> - Gravity - Electrical force ▪ Frictional forces ▪ Forces during collisions (involving vehicles). ▪ Fall from heightS: <ul style="list-style-type: none"> - Effects of acceleration 	
Four.	Pressure in The Body	<ul style="list-style-type: none"> ▪ Density and specific gravity ▪ Pressure ▪ Pascal Principle ▪ Archimedes principle ▪ Flow of discharged and equation of continuity ▪ Laws of gases (Boyle's law & General law of gases) 	
Five.	Electric Signals Of The Body	<ul style="list-style-type: none"> ▪ Electric charge and electrostatic forces ▪ Electric current movement of charges (e-) ▪ Electric potential and electric potential of 	

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		<p>nerve:</p> <ul style="list-style-type: none"> - Electrical signal from muscles. EMG - Electrical signal from Heart. ECG - Electrical signal from Brain EEG - Electrical signal from eye ERG,EOG <ul style="list-style-type: none"> ▪ Biopotential of the heart ▪ Amplifier – Defibrillators and pacemakers ▪ Electrical shock ▪ High frequency & low frequency electricity in medicine 	
Six.	Sound In Medicine	<ul style="list-style-type: none"> ▪ General properties of sound ▪ Ultrasound pictures of the body ▪ 	
Seven.	Light And Vision	<ul style="list-style-type: none"> ▪ Measurements of light and its units: <ul style="list-style-type: none"> - Laws of Reflections - Laws of Refraction - Visible light in Medicine - Lasers - Ultraviolet and infrared light ▪ Lenses – kinds – formation of image: <ul style="list-style-type: none"> - Microscope application. 	
Eight.	Atoms And Atomic Excitation	<ul style="list-style-type: none"> ▪ Production of x-rays ▪ Kinds of Nuclear radiation ▪ Basic characteristic and units of radiopacity ▪ Sources of radioactivity ▪ Biological effects of ionizing radiation ▪ Radiation protection units and limits ▪ Radiation protection instrumentations 	



Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects		10%	--/--/----
Discussions and Lecture Presentations			

Teaching Methodology:

1. Lectures
2. Discussion
3. Homework's
4. Demonstration

Text Books & References:

1. Biomedical Instrumentation Technology and Application (2005) 1rst Edition Application (2005) R.S. Khandpur Tata McGraw – Hill Publishing Company limited 0-07-144784-9
2. University Physics (2002) last Edition Francis W. Sears Mark W. Zeamansky Hugh D. Young Addison – Wesley publishing Company ISBN 0-201-066947
3. Physics Of The Body (2000).2nd Edition John R. Cameron James G.Skofronick and Roderick M. Grant ISBN 0-044838-90-1.
4. Medical Physics “Instrumentation for Diagnosis And Therapy” (2002). 2nd Edition John R. Cameron James G. Skofronick And Roderick M.Grant ISBN 0-944838-90-2



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Para-Medical Program

Specialization	Program Requirement
Course Number	21301131
Course Title	Biochemistry
Credit Hours	(2)
Theoretical Hours	(2)
Practical Hours	(0)





Brief Course Description:

- ❖ Biochemistry course introduces the basic essential information to the college students to know the biomaterials which we deal with during over daily activities, classification, chemical structure, reactions and how the human body metabolizes such biomolecules work.

Course Objectives:

1. To study the following biomolecules and to know the basic information about them, saccharides, lipids, proteins, nucleic acids.
2. To study their chemical structure, reactions and classification.
3. To study enzymes, vitamins and how it works.
4. Acquire the knowledge about their characterization methods.
5. To study the metabolism of biomolecules.



General Description:

Unit Number	Unit Name	Unit Content	Time Needed
1.	Introduction	<ul style="list-style-type: none"> ▪ Constituents of biochemistry ▪ Main function groups in biochemistry 	
2.	Carbohydrates	<ul style="list-style-type: none"> ▪ Classification of carbohydrates: <ul style="list-style-type: none"> – Monosaccharide: Types, reactions and chemical structures – Disaccharides: types, chemical structure – Polysaccharides: types, chemical structures 	
3.	Proteins	<ul style="list-style-type: none"> ▪ Chemistry of amines acids, types, structure chemical and physical properties ▪ Peptides: Chemical structure ▪ Proteins: <ul style="list-style-type: none"> – Primary structure – Secondary structure – Tertiary structure 	
4.	Lipids	<ul style="list-style-type: none"> ▪ Classification of lipids: <ul style="list-style-type: none"> – Chemical structure – Chemical reactions – Steroids definition of structures 	
5.	Nucleic Acids	<ul style="list-style-type: none"> ▪ Definitions Chemical Structure of Nucleosides and nucleotides ▪ Nitrogen bases ▪ Chemical structure of DNA and RNA 	
6.	Enzymes	<ul style="list-style-type: none"> ▪ Properties and chemical structure: <ul style="list-style-type: none"> – Immobilized enzymes – Co-enzymes 	
7.	Vitamins	<ul style="list-style-type: none"> ▪ Definition 	

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	<ul style="list-style-type: none"> ▪ Chemical structure ▪ Classification <ul style="list-style-type: none"> - Water-soluble vitamins - Water-insoluble vitamins 	
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Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects		10%	--/--/----
Discussions and lecture Presentations			

Teaching Methodology:**Text Books & References:**

1. J. M. Berg, L. Stryer and J.L.Tumoczko, "Biochemistry", W. Freeman & Co, 2006.
2. D. Voet and J. Voet and C.W. Pratt., "Fundamentals of Biochemistry", D. Voet and J. Voet and C.W. Pratt, John-Wiley, 2005.
3. A. L. Lehninger, D. Le Nelson, M. M.Cox., "Principles of Biochemistry", W. Freeman & Co., 2004.
4. John Mc Murry, "Organic chemistry", John & Son Willy, New York, 5th edition, 2000.



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Para-Medical Program

Specialization	Program Requirement
Course Number	21301132
Course Title	Biochemistry Lab
Credit Hours	(1)
Theoretical Hours	(0)
Practical Hours	(3)



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Brief Course Description:

- ❖ This course deals with performing practical applications for the different classes of biomolecules including carbohydrates, lipids and proteins.

Course Objectives:

Toward the end of this course, the student should be able to:

1. Study some reactions of monosaccharide, disaccharides and polysaccharides.
2. Be able to measure the glucose level in blood.
3. Identify the methods of protein depositions.
4. Study some properties of lipids as well as some characteristic reaction.
5. Identify some methods of amino acids separation.



General Description:

Unit Number	Unit Name	Unit Content	Time Needed
One.	Carbohydrates	<ul style="list-style-type: none"> ▪ Benedict's test ▪ Tollen's test ▪ Molisch's test ▪ Determination of glucose level in blood ▪ Starch test 	
Two.	Lipids	1-Lipids Properties <ul style="list-style-type: none"> -Solubility of lipids -Unsaturation test -Specification test (soap formation) 2-Cholesterol Level Test 3-Triglyceride Level Test	
Three	Proteins And Amino Acids	1-Precipitation test <ul style="list-style-type: none"> - Precipitation with Ammonium sulphate - Precipitation with sodium chloride and magnesium sulphate 2-Colored reaction <ul style="list-style-type: none"> - Biuret Test - Total Protein Level Test - Uric Acid Level Test 	
Four	Vitamin	<ul style="list-style-type: none"> • Determination of vitamin C -In Blood -In Urine 	



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Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam Practical	20%	--/--/----
	Second Exam Practical	20%	--/--/----
	Final Exam Practical	50%	--/--/----
Homework and Projects		10%	--/--/----
Discussions and lecture Presentations			

Text Books & References:

1. J. M. Berg, L. Stryer and J.L.Tumoczko, "Biochemistry", W. Freeman & Co, 2006.
2. D. Voet and J. Voet and C.W. Pratt. "Fundamentals of Biochemistry", June-Wiley, 2005.
3. A. L. Lehninger, D. Le Nelson, M. M.Cox., « Principles of Biochemistry", W. Freeman &Co, 2004.
4. John McMurry , "Organic chemistry", ,NewYork,5th edition, 2000, John & Son Willy, 2000.



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Para-Medical Program

Specialization	Program Requirement
Course Number	21102111
Course Title	Anatomy
Credit Hours	(3)
Theoretical Hours	(3)
Practical Hours	(0)





Brief Course Description:

- ❖ The course deals with structural anatomy of the body as a whole to provide the students with knowledge of the structure of the body of the human being. This course deals all the systems of the body in an attempt to make it easy for the paramedical students to recognize the organs of the body.

Course Objectives:

At the end of this course, the student should be able to :

1. Define anatomy.
2. Understand the structures of the body systems.
3. Describe the body organs.
4. Integrate the anatomy of the body with its physiology.



Detailed Course Description:

Unit Number	Unit Name	Unit Content	Time Needed
1.	An Introduction To The Human Body	<ul style="list-style-type: none"> ▪ Definition of Anatomy ▪ Levels of Body Organization ▪ Body Systems and their Organs ▪ Anatomical Terminology ▪ (Anatomical Position, directional Terms ,Body Regions, Planes and Cavities) 	(2 hours)
2.	The Cells And Tissues Of The Body	<ul style="list-style-type: none"> ▪ Structure Of Cell , Including <ul style="list-style-type: none"> - The Plasma Membrane (Cell Membrane) - The Cytoplasm And Cell Organelles - The Nucleus ▪ Epithelium Tissues ▪ Glandular Epithelium ▪ Connective Tissues ▪ Membranes of The Body ▪ Muscular Tissue ▪ Nervous Tissue 	(2 hours)
3.	Blood, Cardiovascular and Lymph System	<ul style="list-style-type: none"> ▪ Blood: <ul style="list-style-type: none"> - Composition of blood - Plasma - Erythrocytes(red blood cells) <ul style="list-style-type: none"> ○ Development of and life span of erythrocytes ○ Blood groups - Leukocytes(white blood cells) <ul style="list-style-type: none"> ○ Granulocytes polymorphonuclear Leukocytes ○ Granulocytes - Thrombocytes (platelets) ▪ Heart:- <ul style="list-style-type: none"> - Size and location of The heart - Structure of The heart. 	(4 hours)

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		<ul style="list-style-type: none"> - Flow of blood through the heart - Blood supply to the heart - Conducting system of the heart ▪ Blood Vessels: <ul style="list-style-type: none"> - Types of blood vessels: - Structure of blood vessels. - Major Blood Vessels - Circulatory routes of blood vessels ▪ Lymph: <ul style="list-style-type: none"> - Lymph vessels <ul style="list-style-type: none"> ○ lymphatic Capillaries ○ Large Lymph Vessels ○ Thoracic Duct ○ Right Lymph Duct ▪ Lymphatic Organs and Tissue <ul style="list-style-type: none"> - Lymph nodes(Structure) - Spleen <ul style="list-style-type: none"> ○ Organs associated with the spleen ○ Structure ○ Thymus Gland ○ Organs associated with thymus ○ Structure ○ Mucosa-associated lymphoid tissue 	
4.	The Nervous System	<ul style="list-style-type: none"> ▪ Structure of the Nervous System : <ul style="list-style-type: none"> - Neuron - Central Nervous System - Brain - Spinal Cord - Peripheral Nervous System - Autonomic Nervous System - The Meninges - The Fluid Spaces of the Brain - The Cerebrospinal Fluid (Formation 	(2 hours)

		and Circulation) – Main Features of Sympathetic And Parasympathetic System Nerves	
5.	The skin	<ul style="list-style-type: none"> ▪ Structure Of The Skin; <ul style="list-style-type: none"> – Epidermis – Dermis – Subcutaneous Layer ▪ Accessory Organs of the Skin:, : <ul style="list-style-type: none"> – Nails – Hair Follicles – Sebaceous Glands – Sweet Glands 	
6.	The Endocrine System	<ul style="list-style-type: none"> ▪ Location , Shape, Size And Structure of Endocrine Glands : <ul style="list-style-type: none"> – Pituitary Gland – Thyroid Gland – Parathyroid Glands – Adrenal Glands – Pancreatic Islets – Thymus Gland – Pineal Gland – Ovaries – Testes 	
7.	The Respiratory System	<ul style="list-style-type: none"> ▪ Nose and Nasal Cavity <ul style="list-style-type: none"> – Structure ▪ Pharynx, Larynx and the Trachea: <ul style="list-style-type: none"> – Position – Structure ▪ Bronchi and smaller air passages <ul style="list-style-type: none"> – Structure of bronchi and bronchioles – Structure of Respiratory bronchioles and alveoli ▪ Lungs: <ul style="list-style-type: none"> – Position, Structure and Organization – Pleura and pleural cavity ▪ Respiration: <ul style="list-style-type: none"> – Muscles of respiration 	

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8.	The Digestive System	<ul style="list-style-type: none"> - Cycle of respiration ▪ Organs of the Digestive system <ul style="list-style-type: none"> - Structure of The Alimentary Tract - Mouth and Salivary glands - Pharynx and Esophagus - Stomach - Small and Large intestines - Pancreas - Liver - Biliary Tract ▪ Digestion and Absorption 	
9.	The Genitourinary System	<ul style="list-style-type: none"> ▪ Urinary System:- <ul style="list-style-type: none"> - Kidneys - Ureters - Urinary Bladder - Urethra ▪ Female Reproductive System <ul style="list-style-type: none"> - External Genitalia - Internal Genitalia <ul style="list-style-type: none"> ○ Vagina ○ Uterus ○ Fallopian tubes ○ Ovaries ○ Puberty in Female ○ The Menstruation Cycle - Breast and Mammary glands ▪ Male Reproductive System <ul style="list-style-type: none"> - Scrotum - Testes - Spermatic Cords - Seminal Vesicles - Ejaculatory Ducts - Prostate Gland - Urethra and Pens - Puberty in Male 	
10.	The Skeletomuscular	<ul style="list-style-type: none"> ▪ Skeletal System: <ul style="list-style-type: none"> - Bones: 	

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	System	<ul style="list-style-type: none">○ Structure of Bones :○ Types of Bones.○ The Main Division of the Skeleton○ The Main Features of the Bones of the Skeleton:<ul style="list-style-type: none">- Shape- Position- Number○ Structural of Joints○ Structure of Synovial Joints○ Types of Synovial Joints.- Axial Skeleton:<ul style="list-style-type: none">○ Skull○ Vertebral Column○ Thoracic Cage○ Appendicular Skeleton○ Shoulder girdle and upper Limb○ Pelvic girdle and lower Limb- Articulation and movement▪ Muscular System:<ul style="list-style-type: none">- Muscles of the face- Muscles of the back- Muscles of the abdominal wall- Muscles of the pelvic floor	



Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects		10%	
Discussions and lecture Presentations			

Teaching Methodology:

1. Lectures.
2. Slides and posters and computers.
3. Models
4. Practice inside labs

Text Books & References:

1. Ross and Nilson, "Anatomy and physiology in health and illness", Churchill Livingstone. 10th edition, 2006.
2. Asfour, Nouredin Essentials of Anatomy 2nd edition, Amman- Jordan, dartsneem, 2009
- 3-Saladin, Kenneth S, "Anatomy and physiology", 4th Edition, 2006.
- 4David Shier, Jackie Bulter and Ricki Lewis, "Hole's Essentials of Human Anatomy & Physiology", 9th edition, 2006. Mc GRAW.Hill.
- 5Clark, Robert K, "Anatomy and physiology", 1st Edition, 2005.
- 6"Mosby' s hand book of Anatomy and Physiology Patton and Thibodeau", . 2000.



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Para-Medical Program

Specialization	Program Requirement
Course Number	21102113
Course Title	Physiology
Credit Hours	(3)
Theoretical Hours	(3)
Practical Hours	(0)





Brief Course Description:

- ❖ This course is designed to provide the students with the knowledge of the functions performed by the various parts and organs of the human body. It also deals with the integrity of the body systems as a whole to let the student recognize the physiological changes that happen within the human body and how the body systems work.

Course Objectives:

At the end of this course the students should be able to:

1. Define physiology and its importance in homeostasis.
2. Identify the functions tissues.
3. Understand the functions and the mechanisms of all body organs



General Description:

Unit Number	Unit Name	Unit Content	Time Needed
One	The body as a Whole	<ul style="list-style-type: none"> ▪ Define physiology ▪ Homeostasis:- <ul style="list-style-type: none"> - Intercellular fluid - Extracellular fluid - Interstitial fluid - Component of extracellular fluid - Na & water balance - Acid base balance - Acid – base balance 	
Two	The Tissue	<ul style="list-style-type: none"> ▪ Cell division ▪ Physiology of the cell :- <ul style="list-style-type: none"> - Movement of substances through the cell membrane, diffusion, osmosis, active and passive transport ▪ General functions of: <ul style="list-style-type: none"> Epithelial tissue - Connective tissue - Muscular tissue - Nervous tissue ▪ Tissue regeneration 	
Three	Blood and Cardiovascular System	<ul style="list-style-type: none"> ▪ Functions of blood component ▪ Blood vessels ▪ Heart function <ul style="list-style-type: none"> - cardiac cycle - cardiac out put - blood presses ▪ Function of Circulatory System in General 	
Four	Lymphatic System	<ul style="list-style-type: none"> ▪ Function of lymphatic system in general ▪ Function of Lymph Nodes ▪ Lymph Gland 	
Five	Nervous System	<ul style="list-style-type: none"> ▪ Nerve impulse (Action potential) ▪ Function of the poring ▪ Function of cerebrospinal fluid 	

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		<ul style="list-style-type: none"> ▪ Function of cerebellum ▪ Function of pons ▪ Function of spinal cord ▪ Function of cranial nerves ▪ Function of Autonomic nervous system ▪ Sympathetic ▪ Parasympathetic 	
Sex	Special Senses	<ul style="list-style-type: none"> ▪ physiology of vision ▪ physiology of hearing ▪ physiology of olfactory ▪ physiology of taste 	
Seven	Endocrinology	<ul style="list-style-type: none"> ▪ Function of Pituitary Glands and Hypothalamus ▪ Function of the Thyroid ▪ Function of Parathyroid ▪ Function of Adrenal Gland ▪ Function of Endocrine Pancreas 	
Eight	Respiratory System	<ul style="list-style-type: none"> ▪ Function of the Nose ▪ Function of larynx and Pharynx ▪ Function of Bronchus of bronchioles ▪ Function of pleura ▪ Function of cycle of ▪ Physiology of respiration: <ul style="list-style-type: none"> - Control of Respiration - Gaseous exchange 	
Nine	Digestive System	<ul style="list-style-type: none"> ▪ Function of mouth and salvia ▪ Function of esophagus, stomach ▪ small intestine, and large intestine ▪ Control of Digestion ▪ Absorption ▪ Function of the Liver 	
Ten	Genitor Urinary System	<ul style="list-style-type: none"> ▪ Function of the kidneys ▪ Function of the ureter ▪ Bladder and urethra ▪ Function of the ovary and fallopian tube ▪ Function the uterus and Vagina ▪ Menstrual cycle 	

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		<ul style="list-style-type: none"> ▪ Puberty in female ▪ Function of breast ▪ Function of the testis ▪ Function of epididymis ▪ Function of seminal vesicle ▪ Function of prostate gland ▪ Process of ejaculation ▪ Puberty in male 	
Eleven	The Skin	<ul style="list-style-type: none"> ▪ Function of the Skin ▪ Wound healing 	
Twelve	Skeletomuscular System	<ul style="list-style-type: none"> ▪ Mechanism of bone formation ▪ Function of skeleton ▪ Function of bones ▪ Function of cavities ▪ Healing of bones ▪ Function of joints ▪ Function of muscle ▪ Energy sources for muscle ▪ Mechanism of muscle contraction ▪ Healing of the muscle ▪ Repair of nerves supply muscle 	

Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects		10%	--/--/----
Discussions and lecture Presentations			

Teaching Methodology :

1. Lectures.
2. Discussion.
3. Homework's.
4. Demonstration



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Text Books & References:

1. Ross and Wilson, "Anatomy and physiology in health and illness", 10th edition, Churchill Livingstone 2006.
2. Asfour, Nouredin physiology 3rd edition, dartsneem, amman, Jordan, 2009
3. Saladin, Kenneth S, "Anatomy and Physiology", 4th edition, 2006.
4. David Shier, Jackie Bulter and Ricki Lewis, "Hole's Essentials of Human Anatomy & Physiology", 9th edition. Mc GRAW.Hill.
5. Robert K, "Anatomy and Physiology Clark", 1st Edition, 2005.
6. "Mosby's hand book of Anatomy and Physiology Patton and Thibodeau", . 2000.



البرنامج المهن الطبية المساعدة	
التخصص	متطلبات البرنامج
رقم المادة الدراسية	21102115
اسم المادة الدراسية	علم الاجتماع الطبي
عدد الساعات المعتمدة	(3)
عدد الساعات النظرية	(3)
عدد الساعات العملية	(0)



وصف المادة الدراسية:

❖ يتناول هذا المساق المضمون المعرفي لعلم الاجتماع من حيث الفكر الاجتماعي والرعاية الصحية. فيقدم عرضاً لمفاهيم: الصحة، المرض، الرعاية الصحية، الخدمة الصحية والسلوك المرضي. وكذلك يتناول الدور الذي يمارسه المجتمع في الخدمة الصحية والسياق الاجتماعي للصحة والمرض وانعكاسات مفهوم الصحة والمرض على الخدمات الصحية. ثم يتناول المساق أهم الميادين الدراسية في العلوم الاجتماعية والسلوكية وذلك لفهم السلوك الاجتماعي على المستوى النظري والعملي من التطرق إلى مفاهيم: المعايير، الاتجاهات و القيم.

أهداف المادة الدراسية:

بعد دراسة هذه المادة يتوقع من الطالب أن يكون قادراً على تحقيق الأهداف التالية:

1. ماهية علم الاجتماع الطبي.
2. مفاهيم الصحة والمرض وسلوك المرض.
3. الأبعاد الاجتماعية للخدمة الصحية.
4. الأبعاد الثقافية للخدمة الصحية.
5. التنظيم الاجتماعي للمؤسسة الصحية.
6. مفاهيم المعايير، الاتجاهات و القيم.
7. أخلاقيات المهنة التي سيمارسه.



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الوصف العام:

الزمن	محتويات الوحدة	اسم الوحدة	الوحدة
	<ul style="list-style-type: none"> ▪ نشأة علم الاجتماع الطبي ▪ تعريف علم الاجتماع الطبي ▪ فروع علم الاجتماع الطبي ▪ مستقبل علم الاجتماع الطبي 	علم الاجتماع الطبي	الأولى.
	<ul style="list-style-type: none"> ▪ مفهوم الصحة ▪ مفهوم المرض ▪ مفهوم الرعاية الصحية ▪ مفهوم الخدمة الصحية ▪ مفهوم سلوك المرض 	علم الاجتماع الطبي (المفاهيم)	الثانية.
	<ul style="list-style-type: none"> ▪ السياق الاجتماعي والخدمة الصحية ▪ الأسرة والخدمة الصحية ▪ سلوك المرض واللجوء إلى الخدمة الصحية ▪ الطبقة الاجتماعية والخدمة الصحية ▪ المهنة والمرض والخدمة الصحية 	الأبعاد الاجتماعية للخدمة الصحية	الثالثة.
	<ul style="list-style-type: none"> ▪ المجتمع والثقافة ▪ الثقافة والصحة والمرض ▪ العادات والتقاليد والخدمة الصحية ▪ المعتقدات الطبية الشعبية والخدمة الصحية ▪ الحكم والأمثال الشعبية والخدمة الصحية ▪ المفاهيم والتصورات الشعبية والخدمة الصحية 	الأبعاد الثقافية للخدمة الصحية	الرابعة.
	<ul style="list-style-type: none"> ▪ المؤسسة الصحية: الموقع والنشأة والإمكانيات ▪ المؤسسة الصحية والمجتمع للمؤسسة الصحية ▪ الدور الوقائي والعلاجي للمؤسسة الصحية ▪ الأدوية بالمؤسسة وعلاقتها بالأداء المهني ▪ أقسام المؤسسة الصحية والأداء المهني ▪ الأطباء والأداء المهني للخدمة ▪ الممرضات والخدمة الصحية ▪ الفنيين والخدمة الصحية 	التنظيم الاجتماعي للمؤسسة الصحية	الخامسة.
	<ul style="list-style-type: none"> ▪ المعايير: – معنى المعيار – أنواع المعايير 	الثقافة والسلوك الصحي والمرضي:	السادسة.

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	<ul style="list-style-type: none"> - الالتزام بالمعايير ▪ الاتجاهات <ul style="list-style-type: none"> - مفهوم الاتجاه - قياس الاتجاهات - تغيير الاتجاهات ▪ القيم <ul style="list-style-type: none"> - مفهوم القيم - أنواع القيم - القيم الصحية 		
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طرق التقييم المستخدمة :

التاريخ	نسبة الامتحان من العلامة الكلية	الامتحانات
/ / : التاريخ	%20	الأول
/ / : التاريخ	%20	الثاني
/ / : التاريخ	%10	أعمال الفصل
/ / : التاريخ	%50	الامتحانات النهائية
		المشروع و الوظائف
		المناقشات و تقديم المحاضرات

طرق التدريس:

1. محاضرات
 2. مناقشة وامتحانات قصيرة
 3. شرائح تعليمية
- يحدد عضو هيئة التدريس الطريقة المستخدمة من خلال (محاضرة، عرض، مناقشات، مختبرات).



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الكتب و المراجع :

1. أبو مدين، سليمان، 2006 ، التصورات الاجتماعية للصحة والمرض في الجزائر.اريد: جامعة اليرموك
2. محمد، علي محمد، 2004، دراسات في علم الاجتماع الطبي،الإسكندرية: دار المعرفة الجامعية
3. صالح، عبد المحي محمود حسن، 2003 ، الصحة العامة بين البعدين الاجتماعي والثقافي. الإسكندرية :دار المعرفة الجامعية
4. زعبي، احمد محمد، 2001، أسس علم النفس الاجتماعي:عمان دار زهران
5. المكاوي، علي 1998، الجوانب الاجتماعية والثقافية للخدمة الصحية، الإسكندرية: دار المعارف الاجتماعية.
6. زهران ، حامد عبد السلام، 1992 علم النفس الاجتماعي: القاهرة: عالم الكتب
7. السهيلي، محمد توفيق وآخرون، 1990، المعتقدات الشعبية في التراث العربي، عمان: دار الجليل
8. بشير، إقبال، 1989، الرعاية الطبية ودور الخدمة الاجتماعية، الإسكندرية: المعهد العالي للخدمة الاجتماعية.
9. محمود السيد أبو النيل. 1985، علم النفس الاجتماعي (الجزئين: الأول والثاني) القاهرة : دار النهضة العربية.
10. خليفة، إبراهيم، 1984، علم الاجتماعي في مجال الطب، الإسكندرية، المكتب الجامعي.
11. سعد جلال، 1984، علم النفس الاجتماعي، الإسكندرية – دار المعارف.
12. عبد الستار إبراهيم، 1984، الإنسان وعلم النفس (من سلسلة عالم المعرفة) الكويت.

English References

13. Paul. Benjamin P. "The Role of Beliefs and Customs In Sanitation."
14. Landy David (ed), "Programs Culture, Disease and Healing", New York: Macmillan Co. Inc 2006.
15. Cocker ham, William . , Medical Sociology, 1998, Prentic-Hall,New York.
16. Morley David etal., Practicing Health For All, 1987, London Oxford University press.



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Para-Medical Program

Specialization	Program Requirement
Course Number	21102117
Course Title	Medical Terminology
Credit Hours	(3)
Theoretical Hours	(3)
Practical Hours	(0)



Brief Course Description:

- ❖ This course is designed to develop a working knowledge of the language of medicine to let students acquire word building skills by learning word roots, suffixes, prefixes and abbreviations. By relating terms to body systems, students should identify the proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to communicate and practice his/her work successfully on the purpose of providing health services.

Course Objectives:

Upon completion of this course, students will meet the following objectives:

1. Identify the basic structure of medical words.
2. Construct terms from medical word elements.
3. Define any medical term by dividing it into its elements, identifying and defining each part.
4. Correctly spell, pronounce, define and use words related to each body system studied.
5. Recognise incorrect spelling and usage of medical terms studies.
6. Acquire knowledge of disease processes which affects body organs.
7. Acquire an awareness of laboratory tests, clinical procedures, and abbreviations
8. Accurately interpret, transcribe and communicate vocabulary related to health care services, translate medical terms to contestation of language to facilitate communication





General Description:

Unit Number	Unit Name	Unit Content	Time Needed
One.	Introduction to medical Terminology	<ul style="list-style-type: none"> ▪ Discuss the four parts of medical terms ▪ Recognize the word roots and the combining vowel form. ▪ Identify the most common prefixes and suffixes. ▪ Studying the methods of word buildings 	
Two.	Integumentary system	<ul style="list-style-type: none"> ▪ Identify the organs of the integumentary system and the word root for each organ: Derm/o, Dermat/o, kerat/o, pillo, seb/o, Onch /o ▪ Construct terms related to skin, hair, nail and sebous glands and sweat glands ▪ Discuss the four purposes of the skin ▪ Identifies the terms of colour. ▪ Build terms related to disease of skin ▪ Build terms related to treatment and disorders of skin ▪ Practice exercises related to integumentary system 	
Three.	Musculoskeletal system	<ul style="list-style-type: none"> ▪ Identify the organs of the musculoskeletal system and the word root for each organ: <ul style="list-style-type: none"> - My/o Rhabd/o, Muscul/o, Kines/o Ten /o Tend/o, Orth/o Oste/o Arthr/o, Synovi/o Chondr/o Spondyl /o Disc/o, Meyl /o ▪ Build medical terms related to the musculoskeletal system ▪ Identify pathology related to this system 	

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		<ul style="list-style-type: none"> ▪ Symptoms and signs ▪ Recognition of terms related to the treatment of musical osculated diseases and disorders ▪ Recognition of the surgical prosecuting related to this systems 	
Four.	Digestive system	<ul style="list-style-type: none"> ▪ Identify the organs of the digestive system and the word root for each organ: Oesophag/o, Gastr/o Pylor /o Entr/o Duoden/o , Jejun/o , Ile/o Caec/o Appendico/o Sigmoid /o Rect/o , Proct /o, Hepat/o Pancreat /o , Peritone /o Cyst/o Lapar/o ▪ Build terms related to the digestive system ▪ Identify and discuss the terms related to the pathology of the digestive system. ▪ Recognition of the terms related to the surgical diagnostic procedures done to this system. ▪ Recognition of the terms used in the treatment of this system 	
Five.	The Respiratory system	<ul style="list-style-type: none"> ▪ Identify the organs of the Respiratory systems and the word roots for each organ. <ul style="list-style-type: none"> – Nas/o, Rhin/o, Laryng/o, Pharyng/o Trache/o Bronch/o, Pneumon/o, Lob/o, Pulmon/o, Pleur/o, Phren/o, Cost/o and Chondr/o ▪ Build terms related to the respiratory system <ul style="list-style-type: none"> – Related to the disorders of the respiratory system. – Surgical and diagnostic procedures of the respiratory system 	

❖ تطبق هذه الخطة الدراسية اعتباراً من بداية العام الجامعي 2009/2008

		<ul style="list-style-type: none"> - Treat men's of the respiratory system - Interpret abbreviation used in the students 	
Six.	The cardiovascular system	<ul style="list-style-type: none"> ▪ Identify the organs of the cardiovascular systems and the word roots for each organ. <ul style="list-style-type: none"> - Cardi/o, Valv/o, Atri/o,ventricul/o, Myocardi/o Pericardi/o, Ven/o Phleb/o, Venacav/o, Aort/o, arteri/o, Angi/o ▪ Build terms related to the cardiovascular system: <ul style="list-style-type: none"> - Discusses of the system - Surgical and diagnostic procedures of this system. - Treatment of this system. - Interpret abbreviations used in the study of this system 	
Seven.	Haematology	<ul style="list-style-type: none"> ▪ Identify the parts of Haematology and the word roots for each part ▪ List the word roots and the combining forms of Haematology system: <ul style="list-style-type: none"> - Hem/o Heamat/o, Emia, Hemia Micr/o, Reticul/o Eryth/o leuk/o, Myel/o, Plasma, Phag/o, Cyst/o, Globin/o, Thromb/o ▪ Build terms related to Haematology system: <ul style="list-style-type: none"> - Disuse of blood - Surgical and diagnostic procedures - Treatment of blood diseases and disorders - Interpret abbreviations used is the study of blood 	
Eight.	Endocrine system	<ul style="list-style-type: none"> ▪ Identify the organs of the endocrine system and the word roots for each 	

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		<p>organ</p> <ul style="list-style-type: none"> ▪ List the word roots related to the endocrine system: <ul style="list-style-type: none"> – Pitutar, Thyr/o, Parathyr/o, Adren/o, Pancreat/o, Ovari/o, Orchid/o, Cortic/o.etc ▪ Build terms related to the: <ul style="list-style-type: none"> – disorders and diseases of the endocrine system – treatment of the endocrine system (Surgical procedures and diagnostic). – Identify procedures related to the endocrine system – Interpret abbreviations used in the study of the endocrine system 	
Nine.	The Genitourinary system	<ul style="list-style-type: none"> ▪ Identify the organs of the genitourinary system and the word roots for each organ ▪ List the word roots related to the Genitourinary system: <ul style="list-style-type: none"> ▪ Ren/o, Nephr/o, Pyel/o, Cyst/o, Vesic/o, Urethr/o, Urin/o, Orchid/o, Scort/o, Phall/o, Ballan/o, Epididym/o, Visic/o, Vesicu/o, Prostat/o, Semin/o, Test/o, Colp/o, Culd/o, Hystr/o, Metr/o, Ovari/o Oophor/o, Salping/o, lacent/o, ... etc. ▪ Build terms using word root, prefixes and suffixes related to the: <ul style="list-style-type: none"> – Pathology of the genitourinary system – Disorders of the genitourinary system. 	

		<ul style="list-style-type: none"> - Surgical and diagnostic procedures of the genitourinary system. - Treatment of the diseases of the genitourinary system. - Interpret abbreviators used in the study of this system 	
Ten.	The Nervous system.	<ul style="list-style-type: none"> ▪ Identify the organs of the nervous system and the word roots for each organ. ▪ List the word roots and the combining forms related to the nervous system: <ul style="list-style-type: none"> - Neur/o, Plex/o, Cephal/o, Encephal/o, Cerebr/o, Crani/o, Vertebr/o, etc. ▪ Build terms related to the nervous system. <ul style="list-style-type: none"> - Related the disease and disorders of the nervous system - Related to diagnostic and surgical procedures of the nervous system. - Related to the treatment of the diseases disorders of the nervous system - Interpret abbreviations related to the study of the nervous system 	
Eleven.	Special senses : The Eye and the Ear	<ul style="list-style-type: none"> ▪ Identify the organs of special senses and the word roots for each organ. ▪ List the word roots and the combining forms related to the special senses: <ul style="list-style-type: none"> - Blephar/o, Blenn/o Choroid/o, Chromato ,Conjunctiv/o, Cor/o Corle/o, Cycl/o, Dacry/o, Goni/o ,Helc/o Ir/o, Irid/o Lacrim/o,Irid/o,Kerat/o,Ocul/o,Opthalm/o ,Ooptic/o, Papill/o, Pupill/o, Phac/o, Phak, , Retin/o, 	

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		<p>and Scot/o, Scler/o. Sten/o Ton/o,Uve/o</p> <ul style="list-style-type: none"> - Audi/o Auricul/o, cochle/o ,Incud/o Labyrinth/o,Laryng/o,Malle/o,Mas toid/o,Myc/o,Myring/o,Ossicul/o, Ot/o,Salping/oStapedio,Ten/o, Tympan/o,and Vestibul/o ▪ Build terms related to: <ul style="list-style-type: none"> - The disease and disorders of the special senses. - The diagnostic and surgical procedure related to the special senses. - Treatment of the disease and disorders of the special senses - Interpret abbreviations used in the a study of the special senses 	
Twelve.	Medical Abbreviations	<ul style="list-style-type: none"> ▪ International Medical Abbreviations ▪ Abbreviations related to body systems ▪ Abbreviations related to time, location, and number 	

Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects		10%	--/--/----
Discussions and lecture Presentations			



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Teaching Methodology:

5. Lectures
6. Discussion
7. Homework's
8. Demonstration

Text Books & References:

1. Chabner, David-Ellen, "The Language of Medicine", 7th Edition, W.B. Saunders Company, Philadelphia, PA. Copyright 2004.
2. Stedman, Thomas Lathrop. Stedman's Medical Dictionary. Lippincott Williams, & Wilkins. Maryland. 27th Edition, 2000.
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4. Andrew R.Hutton., "An Introduction To Medical Terminology", 1998, (A self – Teaching Package), London Churchill Livingstone.
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