



### Course Weekly Objective

Week	Date	Topics Covered	Lab. Experiment Assignment	Notes
1		Introduction and the historical development of microbiology	Introduction to microbiology laboratory and lab instruction and the microscope	
2		The bacteriology and classification of microorganisms	Bacterial shape , methods for examining of bacterial cells, simple stain	
3		The basic structure of bacteria	Microbial ecology	
4		The Physiology of bacteria	Staining techniques, gram stain, Zeil-Nelson stain	
5		Sterilization and Disinfection	Sterilization	
6		<b>First examination</b>	<b>First examination</b>	
7		Systematic bacteriology, classification of bacteria	Culture media	
8		Gram positive bacteria (cocci)	Isolation of pure culture, antibiotic sensitivity test	
9		Gram negative bacteria (cocci)	Gram +ve cocci (Staphylococci)	
10		Gram positive bacteria (bacilli)	Gram +ve cocci (Streptococci)	
11		Gram negative bacteria (bacilli)	Gram -ve bacteria	
12		<b>Second examination</b>	Enterobacteriaceae	
13		Body defense mechanisms	Gram +ve bacilli, corynebacteria	
14		Viruses and fungi	Gram +ve bacilli, mycobacteria	
15		<b>Final examination</b>	<b>Final examination</b>	
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**Instructor Signature:**

**Dean Signature:**



### **Course Weekly Objective**

<b>Course Instructor</b>	<b>Dr. Zahid Jasim Mohammed</b>
<b>E-mail</b>	<b>Zahid_jasim2000@yahoo.com</b>
<b>Title</b>	<b>Microbiology</b>
<b>Course Coordinator</b>	<b>Yasamen H. Ali , Assistant instructor</b>  <b>Ahmed khaleel ibrahim</b>  <b>Wasna'a juma'a</b>
<b>Course Objective</b>	<p>At the end of the course the student will be know:</p> <ul style="list-style-type: none"> <li>• The types of microorganisms the cause infectious diseases, general description of diagnostic methods and interpretation of the laboratory findings in order to make the ultimate diagnosis.</li> <li>• The principles and methods sterilization relative to nursing care.</li> <li>• How to use the microscope and the slide preparation processes.</li> <li>• Collection of clinical specimens and disposal of contaminated materials.</li> <li>• Kinds of body defense against infection and types of immunity.</li> </ul>

<b>Course Description</b>	<p>This course is designed to provide the nursing students with basic theoretical and laboratory knowledge in microbiology. The theoretical knowledge is: Introduction, the biology of microorganisms, disinfection and sterilization, systematic bacteriology, body defense against infections, viruses and pathogenic viruses, fungi and pathogenic fungi.</p>				
<b>Textbook</b>	<p><b>Gillies R.R. &amp; Dodds, 1984: Bacteriology illustrated, 5<sup>th</sup> edition. Long man group limited. USA.</b></p>				
<b>References</b>	<p>1- Jawetz, Melnick and Adelberg 1998. Medical microbiology 21st ed. Asimon &amp; Schuster company. Connecticut. USA.</p> <p>2- Prescott, Harley and Klein 1990. Microbiology. Wm. C. Brown publishers, Dubuque. USA.</p> <p>3- Inchhpujani, R.L., Rajesh Bhatia. 2002. Medical parasitology. 3ed ed. Jaypee Brothers Medical publishers Ltd, New Delhi, India.</p>				
<b>Course Assessment</b>	<b>Theory exam.</b>	<b>Lab. exam.</b>	<b>Final theory exam.</b>	<b>Final lab exam.</b>	<b>Total</b>
	<b>30 %</b>	<b>20 %</b>	<b>30 %</b>	<b>20 %</b>	<b>100 %</b>

**Instructor Signature:**

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### Course Weekly Objective

Week	Date	Topics Covered	Lab. Experiment Assignment	Notes
1		Overview of nutrition and assessment of nutritional status .	--	
2		Dietary references and diet planning guides	--	
3		Food ( nutrient ) metabolism and energy balance	--	
4		Carbohydrates	--	
5		<b>First examination</b>	--	
6		Human nutritional lipids , fats , oils , phospholipids and sterols.	--	
7		Protein and aminoacids, malnutrition	--	
8		Vitamins (water soluble and fat soluble )	--	
9		The healthiest diet	--	
10		Nutrition and diet in diabetes mellitus.	--	
11		<b>Second examination</b>	--	
12		Nutrition during pregnancy and lactation.	--	
13		Water and minerals	--	
14		Concept of western diseases Cardiovascular diseases and obesity.	--	

**Instructor Signature:**

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### Course Weekly Objective

<b>Course Instructor</b>	<b>Dr. Nadeem M. Taher</b>
<b>E-mail</b>	<b>Nadeem_alkhayyt@yahoo.com</b>
<b>Title</b>	<b>Nutrition</b>
<b>Course Coordinator</b>	<b>--</b>
<b>Course Objective</b>	<p>After the Completion of the Course students should be able to</p> <ul style="list-style-type: none"> <li>• Know the fundamental principles of human nutrition.</li> <li>• Identify the relationship between nutrition and body energy.</li> <li>• Recognize the specification and functions of different nutritional elements.</li> <li>• Understand the importance of applied nutrition (curative) as an essential part of the nursing care.</li> </ul>
<b>Course Description</b>	<p>The course focuses on the fundamental principles of human nutrition and applied nutrition (curative). The importance and role of good nutrition in building the human body is emphasized.</p>
<b>Textbook</b>	<p>Nutrition and biochemistry for nurses.</p> <p>By Jacob anthikad , 1<sup>st</sup> ED 2009</p>

<b>References</b>	<p>1- Grodner, Anders on. De young, <u>Foundations and Clinical Application of Nutrition A Nursing Approach</u>, second Edition, Mosby, 2000.</p> <p>2- Grodner, Michele et.al, <u>Foundations and Clinical Applications of Nutrition A Nursing Approach</u>, St. Lweis, Mosby Inc,2004</p> <p>3- Williams, Sue Rodwel and Eleanor D. Schlenker, <u>Essentials of Nutrition and Diet Therapy</u>, 8<sup>th</sup> ed., London, Mosby Inc., 2003.</p>				
<b>Course Assessment</b>	<b>Theory exam.</b>	<b>Lab. exam.</b>	<b>Final theory exam.</b>	<b>Final lab exam.</b>	<b>Total</b>
	<b>50 %</b>	<b>--</b>	<b>50 %</b>	<b>--</b>	<b>100 %</b>
<b>General Notes</b>					

**Instructor Signature:**

**Dean Signature:**

**Republic of Iraq**  
**The Ministry of Higher Education**  
**& Scientific Research**



**University:** Baghdad  
**College:** Nursing  
**Department:** Basic Medical Sciences  
**Stage:** 1<sup>st</sup> year  
**Lecturer name:** Nadeem M. Taher Eman  
 A. Alwahab

**Academic status:** Professor  
 Instructor  
**Qualification:** Ph.D.

**Place of work:** College of Nursing  
 University of Baghdad

### Course Weekly Objective

<b>Course Instructor</b>	<b>Dr. Nedeem Mohamed Taher (Professor)</b> <b>Dr. Eman AbdAl Wahab Salman (Instructor)</b>
<b>E-mail</b>	<b>alqaisyeman@yahoo.com</b>
<b>Title</b>	<b>Biochemistry</b>
<b>Course Coordinator</b>	<b>Entisar Mudhafar</b> <b>Ibtihaj Khadum</b> <b>Dalia Khalis Abdul Latef</b> <b>Noor alhuda Khalil Ibrahim</b> <b>Ala'a shay'a shabrem</b>
<b>Course Objective</b>	It's necessary for nursing students to know about biochemistry and all laboratory tests.
<b>Course Description</b>	The biochemical studies introduce students to the fundamental Concepts compounds of biochemistry. The students look at both structure and role of abnormal carbohydrates, lipids, amino acids, proteins & enzymes with diseases . They also acquire the basic skill necessary for general laboratory analysis and operating, maintaining, and cleaning laboratory equipments.

<b>Textbook</b>	Jacob Anthikad, Nutrition and Biochemistry for Nurses, 1 <sup>st</sup> Ed., 2009.				
<b>References</b>	1. Kassarla rajeshwar, Medical Biochemistry for Nurses, 2 <sup>nd</sup> Ed., 2008 2. MN chatterjea and Rana Shinde , textbook of medical biochemistry , 4 <sup>th</sup> Ed. 2000. 3. Pamela C.Champe, Richard A.Harvey. Biochemistry (Lippencott's illustrated reviews ) 4 <sup>th</sup> ED. 2008.				
<b>Course Assessment</b>	<b>Term theory</b>	<b>laboratory</b>	<b>Final lab</b>	<b>Final- theory</b>	<b>total</b>
	<b>30%</b>	<b>20%</b>	<b>20%</b>	<b>30%</b>	<b>100%</b>
<b>General Notes</b>					

**Instructor Signature:**

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Week	Date	Topics Covered	Lab. Experiment Assignment	Notes
1		Chemistry of Carbohydrates , Definition, Classification and Chemical properties	General information about laboratory tests	
2		Metabolism of Carbohydrates. Glycogenesis, Glycogenolysis and Glycolysis.	Instrumentation of visible light spectrophotometer	
3		Krebs Cycle, Metabolic disorder of carbohydrate metabolism and Diabetes mellitus.	Blood sugar test	
4		Chemistry of Lipids , Definition, Classification and Chemical properties, Cholesterol and Bile acids.	Serum Cholesterol	
5		Lipids Metabolism, Fatty acid oxidation ATP production,	Total Protein	
6		1 <sup>st</sup> Examination	1 <sup>st</sup> Examination	
7		Metabolic disorder of lipid metabolism, Ketogenesis and Fatty liver	Serum Creatinine Serum Uric acid	
8		Chemistry of amino acids and proteins , Classification and Some properties of proteins. Protein metabolism,	Blood Urea	
9		Disorder of protein metabolism and blood proteins Non protein compounds , Ammonia and Uric acid synthesis	Alkaline phosphatase	
10		Chemistry of Enzymes , Definition , Inhibition and Coenzyme.	Acid phosphatase	

<b>11</b>		Activity of Enzyme , Classification and properties of enzymes.	Glutamate oxaloacetate transferase ( GOT)	
<b>12</b>		Plasma Enzymes, Amylase and Lactate dehydrogenase.	Glutamate pyruvate transferase (GPT)	
<b>13</b>		2 <sup>nd</sup> examination	2 <sup>nd</sup> examination	
<b>14</b>		Renal function, Blood urea formation cycle and Creatinine	Serum Creatinine	
<b>15</b>		General examination of urine.	Normal and abnormal urine	

**Instructor Signature:**

**Dean Signature:**



## Course Weekly Objective

Course Instructor	<b>Majed Ali Attia</b>
E-mail	--
Title	<b>Pharmacology I</b>
Course Coordinator	--
Course Objective	<p>1- by the end of the semester, the students will be able to Differentiate between various types of drug group</p> <p>2- Understand the essential information concerning different types of drugs, such as doses, side effect and methods of administration.</p> <p>3 - Know the responsibility of the graduate nurse in giving drugs through the therapeutic process.</p> <p>4- Teaching the students different types of drugs</p> <p>5- Identify the basic principles of pharmacology and its application in nursing practice.</p> <p>6- Demonstrate administration of medications preventing medication errors, medication systems , drug preparations ,dosage forms and routes of drug administration</p>
Course Description	<p>This course is designed to assist the 3<sup>rd</sup> year students to acquire the basic knowledge, concepts and understanding of the therapeutic use of each drug according to the causative agent of the disease and provides the opportunity to the students to deal with different component of the drugs.</p>

Textbook	Hahn, A.B., Barkin L.B., and Oestreich S. (1982)  Pharmacology in nursing. 15 th edition. USA.	
References	1- Richard A. Lehne. Pharmacology for Nursing Care, 4th edition, Saunders, 2001. 2- Anne Collins Abrams, Clinical Drug Therapy: Rationales for Nursing Practice, 6th edition, Lippincott, 2001.	
Course Assessment	Term exam.	Final Exam
	50%	50%
General Notes	Increase the credit hours for covering all the important topics.	

**Instructor Signature:**

**Dean Signature:**



### Course Weekly Objective

Week	Date	Topics Covered	Lab. Experiment Assignment	Notes
1		Introduction to Pharmacology	<b>NO LABARATORY</b>	
2		Application of Pharmacology in nursing practice	--	
3		Basic principles of Pharmacology	--	
4		Drug therapy across the life span	--	
5		Responsibilities in drug administration	--	
6		Autonomic Pharmacology. Cholinergic and Adrenergic	--	
7		First examination	--	
8		Drugs acting on the CNS, sedative hypnotic, antidepressant, anti-epilyptic drugs	--	
9		Analgesic drugs, narcotic and non-narcotic analgesic drugs	--	
10		Drugs acting on the GIT	--	
11		Second examination	--	
12		Drugs acting on the pulmonary tract	--	
13		Antihistamin drugs	--	
14		Anticoagulant drugs	--	
15		Final examination	--	

**Instructor Signature:**

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**University:** Baghdad  
**College:** Nursing  
**Department:** Basic Medical Sciences  
**Stage:** 2<sup>nd</sup> year  
**Lecturer name :** Majed A. Attia  
**Qualification:** M.Sc.  
**Place of work:** College of Nursing  
 University of Baghdad

### Course Weekly Objective

Course Instructor	<b>Majed Ali Attia</b>
E-mail	--
Title	<b>Pharmacology II</b>
Course Coordinator	--
Course Objective	<p>1- by the end of the semester, the students will be able to Differentiate between various types of drug group</p> <p>2- understand the essential information concerning different types of drugs, such as doses, side effect and methods of administration.</p> <p>3 - Know the responsibility of the graduate nurse in giving drugs through the therapeutic process.</p> <p>4-teaching the students different types of drugs</p> <p>5- Identify the basic principles of pharmacology and its application in nursing practice.</p> <p>6- Demonstrate administration of medications preventing medication errors, medication systems , drug preparations ,dosage forms and routes of drug administration</p>
Course Description	<p>This course is designed to assist the 3<sup>rd</sup> year students to acquire the basic knowledge, concepts and understanding of the therapeutic use of each drug</p>

	according to the causative agent of the disease and provides the opportunity to the students to deal with different component of the drugs.	
Textbook	Nursing 1997, drug handbook  Cynthia C., Braningar , et.al.	
References	1- Richard A. Lehne. Pharmacology for Nursing Care, 4th edition, Saunders, 2001. 2- Anne Collins Abrams, Clinical Drug Therapy: Rationales for Nursing Practice, 6th edition, Lippincott, 2001. 3. Wilson shanon . shields. PEARSON nurses drug guide 2010	
Course Assessment	Term exam.	Final Exam
	50%	50%
General Notes	Increase the credit hours for covering all the important topics.	

**Instructor Signature:**

**Dean Signature:**

Republic of Iraq  
The Ministry of Higher Education  
& Scientific Research



**University:** Baghdad  
**College:** Nursing  
**Department:** Basic Medical Sciences  
**Stage:** 2<sup>nd</sup> year  
**Lecturer name :** Majed A. Attia  
**Qualification:** M.Sc.  
**Place of work:** College of Nursing  
University of Baghdad

### Course Weekly Objective

Week	Date	Topics Covered	Lab. Experiment Assignment	Notes
1		Diuretic drugs	<b>NO LABARATORY</b>	
2		Drugs acting on the cardiovascular system	--	
3		Antihypertwnsive drugs	--	
4		Drugs foe angina pectoris	--	
5		Drugs for CHF	--	
6		<b>First examination</b>	--	
7		Chemotherapy	--	
8		Antimicrobial drugs	--	
9		Antiprotozoal and antihelminthic drugs	--	
10		Antiviral, antifungal drugs	-	
11		Second examination	--	
12		Hormones pharmacology	--	
13		Drugs acting on the gonads	--	
14		Toxicology, anti-aenemic and vitamins	--	
15		Final examination	--	

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### Course Weekly Objective

Week	Date	Topics Covered	Lab. Experiment Assignment	Notes
1		<b>Introduction to Parasitology.</b>	Classification of human parasite	
2		<b>Protozoa</b> <i>Entamoeba histolytica</i>	Macroscopic and microscopic examination of stool	
3		<b>Non pathogenic amoebae</b>	<i>Entamoeba histolytica</i>	
4		<b>Intestinal flagellates:</b> <i>Giardia lamblia:</i>	Other Amoeba	
5		<b>Atrial flagellates:</b> <i>Trichomonas vaginalis</i>	Intestinal flagellates <i>Trichomonas</i> sp.	
6		<b>First examination</b>	<b>First examination</b>	
7		Tissue flagellates: <i>Leishmania</i> spp.	Blood flagellates	
8		<b>Sporozoa:</b> <b>Plasmodium spp.</b>	Diagnostic method of blood flagellates	
9		<i>Toxoplasma gondii</i>	Class sporozoa	
10		Helminthes: Cestoda	Class Cestoda	
11		Nematoda	Class Nematoda	
12		Intestinal nematode	Intestinal nematode	
13		Second examination	2 <sup>nd</sup> examination	
14		Trematoda	Class Trematoda	
15		Body defense against parasite.	Revision	

Instructor Signature:

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### **Course Weekly Objective**

<b>Course Instructor</b>	<p><b>Zaman A.A. Ibrahim</b></p> <p><b>Ahmed Khaleel Ibrahim</b></p>
<b>E-mail</b>	<b>Zamanbrahim@yahoo.com</b>
<b>Title</b>	<b>Medical Parasitology</b>
<b>Course Coordinator</b>	<p><b>Salwa Gazi Tyrke \ Assistant lecturer</b></p> <p><b>Yasamin Hasan Ali \Assistant lecturer</b></p> <p><b>Wasna'a Juma'a Mohammad\ Assistant lecturer</b></p>
<b>Course Objective</b>	<p>At the end of the course the student will be know:</p> <ul style="list-style-type: none"> <li>• The types of parasites that cause infectious diseases, general description of it.</li> <li>• The structures, figures, hosts, lifecycle, pathogenic effects, methods of diagnostic and treatment.</li> <li>• How to use the microscope and the slide preparation processes.</li> <li>• Collection of clinical specimens and disposal of contaminated materials.</li> <li>• Kinds of body defense against infection and types of immunity.</li> </ul>
<b>Course Description</b>	<p>This course is designed to provide the nursing students with basic theoretical and laboratory knowledge in parasitology. Types of parasites, their structures and habitat and life cycle. The most important diseases that cause by parasites and how to recognize them in the laboratory.</p>

<b>Textbook</b>	Nil				
<b>References</b>	1. John DT, Petri WA, editors. Markell and Voge's. Medical Parasitology. 9th ed. Philadelphia: Saunders; 2006. 2-Arora,DR. and Arora,B. Medical parasitology.2 <sup>nd</sup> e.CBS Publishers and distributors. NEW DELHI.BANGALORE (INDIA), 2000.				
<b>Course Assessment</b>	<b>Theory exam.</b>	<b>Lab. exam.</b>	<b>Final theory exam.</b>	<b>Final lab exam.</b>	<b>Total</b>
	<b>30 %</b>	<b>20 %</b>	<b>30 %</b>	<b>20 %</b>	<b>100 %</b>
<b>General Notes</b>					

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### Course Weekly Objective

Week	Date	Topics Covered	Lab. Experiment Assignment	Notes
1		Definition, Cell, disease, cellular adaptation, cell injury and necrosis	Cell	
2		Genes and Genetic Diseases	Cytoplasmic organelles	
3		Inflammation (definition, types, acute inflammation, outcome)	DNA	
4		<b>First examination (only for one hour)</b> Chronic inflammation. Repair and Healing	Cell death	
5		Neoplasia	Cellular adaptation	
6		Immunopathology	Slide preparation	
7		AIDS	Inflammation	
8		<b>Second examination (only for one hour)</b> Disorders in blood flow	<b>First exam</b>	
9		Disorder in WBC	Neoplasia	
10		Disorder in RBC and alteration in cardiac function	Disorders in blood vessels	
11		Disorder in kidney	Anemia	
12		<b>Third examination</b>	Film about embryonic development	
13		Bone diseases	Bone disorders	
14		Alteration in respiratory function	Respiratory Disorders	
15		<b>Final examination</b>	<b>Final examination</b>	

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### **Course Weekly Objective**

<b>Course Instructor</b>	<b>Ala'a Hassan Mirza Hussain</b>
<b>E-mail</b>	<b>Alaa_merza@yahoo.com</b>
<b>Title</b>	<b>Pathophysiology</b>
<b>Course Coordinator</b>	<b>Suzan Ibraheem/ Assistant lecturer</b>  <b>Wasna'a Juma'a Mohammad\ Assistant lecturer</b>
<b>Course Objective</b>	<p>At the end of the course the student will be able to:</p> <ul style="list-style-type: none"> <li>• Understand what is pathophysiology (complex nature of disease)</li> <li>• Recognize types of stressors, injuries and infectious agent.</li> <li>• Understand the mechanism of diseases (mechanism of body responses) which includes: Genetic abnormalities, Inflammation, infection and Neoplasia.</li> <li>• Identify disorders related to major human body functions.</li> </ul>
<b>Course Description</b>	<p>This course is designed to provide the nursing students with basic in pathophysiology. Introduction, cell, cellular adaptation, cell injury, genes and gene abnormalities, inflammatory processes, neoplasia, mechanisms of hypersensitivity and immunodeficiency disease, lymphoproliferative disorders, infectious processes, alternation in - blood flow-blood pressure and cardiac function, heart failure, anemia and defects in RBC, alteration in renal functions, alteration in respiratory function.</p>

<b>Textbook</b>	There is no textbook				
<b>References</b>	<ul style="list-style-type: none"> <li>○ Porth, C.M. 2009. Pathophysiology concepts of altered health. Lippincott.</li> <li>○ Kumar,v. Abbas, A. Fausto, N.; Mitchell, R. (2007) Robbin Basic Pathology. Elsevier.</li> <li>○ Anderson, J. R. 2000 Muir's textbook of pathology.</li> <li>○ Junqueira and Carneiro 2004, Basic histology, Lange</li> </ul>				
<b>Course Assessment</b>	<b>Theory exam.</b>	<b>Lab. exam.</b>	<b>Final theory exam.</b>	<b>Final lab exam.</b>	<b>Total</b>
	<b>30 %</b>	<b>20 %</b>	<b>30 %</b>	<b>20 %</b>	<b>100 %</b>
<b>General Notes</b>					

**Instructor Signature:**

**Dean Signature:**