University: Muthana University
College:college of science
Department:chemistry
Stage:fourth
Lecturer name:Muna Hasson
Academic Status;assistane lectural
Qualification:M.Sc in Biochemistry

Teaching plan for the semester form(Academic year 2018-2019)

Course Instructor	Muna Hasson Aboodi				
E_mail	Munaforever2004@mu.edu.iq				
Title	Biochemistry IV				
Course Coordinator	One semester				
Course Objective	Investigate the blood and urine assayed in the clinical laboratory, identify their common methods of analysis and relate laboratory results to clinical diagnosis. Examine the carbohydrates,lipids assayed in the clinical laboratory ,identify their common methods of analysis and laboratory results to clinical diagnosis.				
Course Description	Exhibit knowledge of the principles of the clinical chemistry ,function of organs under healthy or abnormal conditions. Emphasizing the endocrine, liver and pancreatic functions. Also includes diseases related with abnormalities of proteins, carbohydrates, lipids metabolism and body fluids.				
Textbook	-----				
References	Clinical Chemistry: Principals Procedures, Correlations , , Bishop, Michael L., Edward ,P. Fody, & Larry E. Schoeff Publisher: Lippincott, Williams & Wilkins ,Edition: 5th				
Course Assessment	Term Tests	Laboratory	Quizzes	Final Exam	Total score
	(24%)	(13%)	3%	(60%)	100%
General Notes	By the end of this course the student should be able to explain the principles of the clinical chemistry procedures and describe the clinical importance of abnormalities.				

Republic of Iraq
The Ministry of Higher Education & Scientific Research

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Teaching plan for the semester (Academic year 2018-2019)

week	Date	Topics Covered	Lab. Experiment Assignments	Note
1	18-2-2019	Introduction of clinical chemistry	Specimen Preparation	
2	25-2-**2019**	Carbohydrates metabolism,DM.	Essentials of Blood Group tests, Antigens and Antibodies	
3	4-3-**2019**	DM and ketone bodies,hypoglycemia	Estimation of blood glucose	
4	11-3-**2019**	Protein metabolism and disorder in aminoacids metabolism	Estimation of blood hemoglobin	
5	18-3-**2019**	Cholesterol related diseases.	Estimation of cholesterol	
6	25-3-**2019**	Lipid associated diseases	Estimation of bilirubin	
7	1-4-**2019**	Describe the structure and function of potassium, calcium, magnesium, phosphor, iron,	Methods of measure protein in urine.	
8	8-4-**2019**	Chemistry of blood	General Urine tests	
9	15-4-**2019**	Chemistry of blood groups	Microscopic examination of urine	
10	22-4-**2019**	Kidney disease	Calcium test	
11	29-4-**2019**	Liver disease	Saliva analysis	
12	6-5-**2019**	Hormones,mech; of hormones	Renal function tests	
13	13-5-**2019**	Thyroid hormones	Liver function tests	
14	20-5-**2019**	Growth hormon	Determination of uric acid	

Instructor Signature: Dean Signature: