Republic of Iraq
The Ministry of Higher Education
& Scientific Research

University: Diyala
College: Agriculture
Department: Animal Production
Stage: 2nd
Lecturer name: Ziad Tariq Sedrah
Academic Status: Ass. Prof.
Qualification: Ph.D.
Place of work: Univ. of Diyala

Flow up implementation celli pass play (Biochemistry)

Course Instructor	Dr. Ziad Tariq Sedrah				
E_mail	dr.ziad_sedrah@agriculture.uodiyala.edu.iq				
Title	Biochemistry				
Course Coordinator					
Course Objective					
Course Description					
Textbook	Hassan, A.M. and Shihab, S.K. Agricultural Biochemistry. Baghdad Univ.				
References	– Kuchel, W.P. 2009. Schaum,s outlines Biochemistry. 3ed ed. McGraw Hill. London. – Nelson, L.D. and Cox, M.M. 2004. Lehninger Principles of Biochemistry. 4th ed. University of Wisconsin–Madison. – Internet				
Course Assessment	Term (40%)			Final (60%)	
	Term Tests	Laboratory	Quizzes	Laboratory	Final Exam
	(20%)	(15%)	(5%)	20%	40%
General Notes					

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Course weekly Outline (Biochemistry)

week	Date	**Topics Covered**	**Lab. Experiment Assignments**	**Notes**
1		The Foundations of Biochemistry	PH and buffers	
2		Carbohydrates: definition, classification	Molisch test, Seliwenoff test	
3		Carbohydrates: cyclic structure, isomerism	Bial test, Aniline test, Anthrone test	
4		Lipids: definition, Physiologic Significance,	Fehling test,	
5		Lipids: fatty acids, glycerides, phospholipids, waxes, sterols	Benedict test	
6		Proteins: definition, functions, classification	Barfoed test, Picric acid test, Iodine test for starch	
7		The Structure of Proteins	Unknown sugar	
8		Enzymes	Acrolein test, Copper acetat test	
9		Nucleotides and Nucleic Acids	Iodine test for lipids, Acid number	
10		Vitamins	Saponification number, Iodine number	
11		Bioenergetics: The Role of ATP, Biologic Oxidation,	Biuret test, Xanthoprotein test	
12		Glycolysis, Gluconeogenesis and the Pentose Phosphate Pathway	Millon test, Rosenheim test	
13		The Citric Acid Cycle	Sakaguchi test	
14		Fatty Acid Catabolism	Micro-Kjeldahl	
15		Amino Acid Oxidation and the Production of Urea	α- amylase test	

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