

**HARRAN UNIVERSITY FACULTY OF SCIENCE AND ARTS
DEPARTMENT OF BIOLOGY**

Course Name	Code	Semester	T+P	Credits	ECTS
BIOCHEMISTRY-I	0804509	1 (Fall)	3+0	3	4

Prerequisite Course(s)	-
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Language of Instruction	Turkish
Type of Course	Compulsory
Coordinator	Prof. Dr. Faruk SÜZERGÖZ
Instructor	Prof. Dr. Faruk SÜZERGÖZ
Co-instructors	
Course Objectives	The aim of the lesson is to teach the importance of the carbonhydrates and lipids in our life.
Course Outcomes	Student will be informed about sturcture of carbonhydrates adn lipids. Students will get information about basics of the reactions for energy metabolism of carbonhydrates. Students will get information about basics of the reactions for energy metabolism and structural functions of lipids. Student will get information about molecular mechanizm of photosynthesis.
Course Contents	Atom and molecule concept, basic structures of carbonhydrates, digesiton of carbonhydrates, glycolysis, TCA cycle, glyconeogenesis, basic structures of lipids, digestion of lipids, synthesis and oxydation of fatty acides.

Weeks	Topics
1	Meloculeconcept
2	Basic structure of Carbonhydrates
3	Classification of carbonhydrates
4	Digestion, absorption of carbonhydrates
5	Glycolysis, TCA cycle
6	Glycogenes, Glycogenolys, glyconeogenesis
7	Midtermexam
8	Basic structure of lipids
9	Classification of lipids
10	Digestion, absorption of lipids
11	Lipogenesis
12	De novosynthesis of lipids
13	Keton bodies
14	Photosynthesis

General Capabilities
Teaching and disseminating practical information about the regular work of the body, by getting general information about the occurrence of biochemical events in the body, and communicating them primarily to their students and their immediate surroundings.

Recommended or Required Reading
1. NesrinEmekli, Basic and Applied Biochemistry Nobel, 2003 2. Gözükara EM. Biyokimya Nobel 2001 3. Tüzün C. Biyokimya Palme yayıncılık. İstanbul 4. Mehmetoğlu İ. KlinikBiyokimyaLaboratuvarıİnciOfset. Konya. 5. Adam B, Göker Z, Ardiçoğlu Y. TemelveKlinikBiyokimya. Atlas Kitapçılık. Ankara

Form of Assessment
Mid-term exam : 40% Final exam : 60% Projects : Homework :

