

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

Course Title	Code	Semester	T+P	Credits	ECTS
Algology	0804625	3. semester/Spring	2+0	2	3

Prerequisite Courses	
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Language of Instruction	Turkish
Type of Course	Bachelor Degree
Course Coordinator	Asst. Prof. Göksal SEZEN
Teaching	Asst. Prof. Göksal SEZEN
Lecturer Assistants	
Purpose of Course	Understanding morphology, cytology, ecology and economic importance of algae
Learning Outcomes of the Course	<ol style="list-style-type: none"> 1. Define basic information concepts about algae. 2. Identify and locate algae species (taxa) using application tools and equipment and other scientific resources. 3. Gives the biology of algae. 4. It determines the contribution of these creatures to the ecosystem. 5. Introduces species of economic value. 6. It establishes the conservation of algae species to provide biodiversity. 7. It teaches to increase utilization by introducing useful types. 8. It teaches to protect against harm by introducing harmful species. 9. Learns knowledge of concepts related to algae culture. 10. The acquired knowledge teaches that biology is shared with other branches of science. 11. It determines the importance of these creatures for sustainable development. 12. In practice, it reaches the ability to get familiar with species.
Content of Course	Identification and location on the systematic of the algae, thallus structures, structures of prokaryotic and eukaryotic algae cells and cell organelles, association of algae with environment and usage areas.

Weeks	Subjects
1	Introduction, definition and systematic place of algae
2	Structure of eukaryotes and prokaryote algae cells
3	Origin of endosymbiosis and eukaryotic algae
4	Whip, cell wall and coccoliths in the algae
5	Structure of algae plastids
6	Midterm exam
7	Color substances in algae, storage nutrients and algae nutrition
8	Structure of organelles in eukaryotic algae cells
9	Tallus types in the algae
10	Ecology of freshwater algae
11	Ecology of marine algae
12	The materials obtained from the algae and their usage areas
13	Use of algae as food
14	Harmful effects of algae

Generic Competences

Resources

1. OlcayObalı, 2011, Kişiseldersnotu, Ankara Üniversitesi,
2. Graham L.E, (2000) Algae, Prentice- Hall, Inc.
3. Hoek C., Mann D.G., Jahns H.M., (1995) Algae. An introduction to phycology. Cambridge University Pres. U.K
4. Round F.E., (1973) The Biology of the Algae 2nd Edition Edward Arnold Limited. London
5. Zekeriya ALTUNER, 2002, TohumuzBitkilerSistematığı, I. Cilt, Gaziosmanpaşa Üniversitesi, Fen Edebiyat Fakültesi Yayınları No:2, Tokat.
6. Singh, Pande. 2016, A Text Book Of Botany (Fifth Edition), Jain Edition 17 9789350781296 Paperback

ASSESSMENT SYSTEM

Midterm Exam: 40%

Final: 60%