ECOSYSTEM ECOLOGY

1	Course Title:	ECOSYSTEM ECOLOGY	
2	Course Code:	BIO6605	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	6.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. GÜRCAN GÜLERYÜZ	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi, Fen – Edebiyat Fakültesi, Biyoloji Bölümü, 16059, Nilüfer-Bursa 0224 2941799 arslanh@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	The course is designed to give detailed knowledge on ecosystem concept.	
19	Contribution of the Course to Professional Development:	Explaining the functioning of ecosystems and revealing the dependence of these processes on living species.	
20	Learning Outcomes:		
		1	Relating the system concept to biological hyerachy.
		2	Comparing the natural and human-based ecosystems.
		3	Understanding the gradeint and ecotone concepts.
		4	Learning the methods used for ecosystem diversity.
		5	Understanding the energy flow in ecosystems.
		6	Understanding the biogeochemical cycles.
		7	Understanding the ecosystem development characteristics.
		8	Relating the ecosystem development and human ecology.
		9	
		10	
21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Ecosystem concept and management	
2	Trophic structure of ecosystems	
3	Gradeints and ecotons.	
4	Examples of ecosystems.	

5	Ecosystem diversity.	
6	Energy share in food chain and food web.	
7	Energy flow model.	
8	Sibernetics in ecosystem.	
9	Biogeochemical cycles.	
10	Biogeochemical cycles in a watershed	
11	Biogeochemical cycles in tropical areas.	
12	The rules of ecosytem development.	
13	Climax concept.	
14	Relations between ecosystem development and human ecology	

22	Textbooks, References and/or Other Materials:	Ekolojinin Temel İlkeleri. E.P Odum, G.W. Barret (Çeviri Ed. K. Işık), Palme Yayıncılık (2008) Ekosistem Ekolojisi ve Coğrafyası Cilt I, İ. Atalay, META Basım, İzmir (2008) Ekosistem Ekolojisi ve Coğrafyası Cilt II, İ. Atalay, META Basım, İzmir (2008)
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	0	0.00
Quiz	0	0.00
Success Grade	1	100.00
Total		100.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	3.00	42.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	4	20.00	80.00
Final Exams	1	16.00	16.00
Total Work Load			180.00
Total work load/ 30 hr			6.00
ECTS Credit of the Course			6.00

Course the Rules & Regulations of Bursa Uludag University on Undergraduate Education.

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	0	5	0	0	0	0	0	5	4	5	5	0	0	0	0	0
ÖK2	0	5	0	0	0	3	0	5	4	5	5	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	5	4	0	0	0	0	0
ÖK4	4	5	4	4	4	0	4	0	0	5	5	0	0	0	0	0

ÖK5	4	5	4	4	4	0	4	0	0	5	5	0	0	0	0	0
ÖK6	4	5	4	4	4	0	4	0	0	5	5	0	0	0	0	0
ÖK7	4	5	4	4	4	0	4	0	0	5	5	0	0	0	0	0
ÖK8	0	5	4	4	4	0	4	0	0	5	5	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**