INTRODUCTION TO ASTROBIOLOGY

1	Course Title:	INTRODUCTION TO ASTROBIOLOGY	
2	Course Code:	BYL2405	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	2	
6	Semester:	3	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	1.00	
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. ÖZER YILMAZ	
15	Course Lecturers:	-	
16	Contact information of the Course Coordinator:	Prof. Dr. Özer YILMAZ ozery@uludag.edu.tr 0 224 29 41 865 / 896 Bursa Uludağ Üniversitesi Fen Edebiyat Fakültesi Biyoloji Bölümü, 16059, Nilüfer-BURSA	
17	Website:	http://bilgipaketi.uludag.edu.tr/Programlar/Detay/28?AyID=30	
18	Objective of the Course:	This course aims to recognize the study areas of Astrobiology, the origin and evolution of life, the transition from the formation of the Universe to cellular life, and the recognition of different life forms and conditions	
19	Contribution of the Course to Professional Development:	Learns the basic and current concepts related to the course	
20	Learning Outcomes:		
		1	Defines the basic concepts of astrobiology;
		2	Explain the formation of the Universe and Stars
		3	Explain the characteristics of the habitable planet and the evolution of life on Earth
		4	Interpret conditions for supporting life in the Solar System
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21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Theoretical	
2	Introduction	
3	Historical Development of Astrobiology	

4	Stellar Evolution and Characteristics of Life Supporting Stars	
5	Formation of the Solar System	
6	Habitable Planet Characteristics - Habitable generations	
7	The Origin of Life	
8	Conditions on Early Earth Period	
9	Life on Earth	
10	Organisms in Extreme Environments	
11	Life in the Solar System	
12	Mars and Life	
13	Jupiter Moons and Life	
14	The Kepler Space Telescope and the Search for Life	

22	Textbooks, References and/or Other Materials:	Astrobiology Lecture Notes – Özer Yılmaz Catling, D. Astrobiyoloji, Dünyada ve Evrende Yaşam Jeffrey Bennet and Seth Shostak, Life in the Universe 3rd edition
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBE**	**WEIGHT**
Theoretical	1	100
Practicals/Labs		
Self-study and preperation	3	100
Homeworks		
Projects		
Field Studies		
Midterm exams	1	100
Others		
Final Exams	1	100
Total		100.00
Success Grade		
Total		
Course		

Activites	Number	Duration (hour)	Total Work Load (hour)
Home work-project	14	1.00	14.00
Practicals/Labs	0	0.00	0.00
Self-study and preperation	14	3.00	42.00
Homeworks	14	2.00	28.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	1.00	1.00
Others	0	0.00	0.00
Final Exams	1	1.00	1.00
24 ECTS / WORK LOAD TABLE			
Total Work Load			86.00
Total work load/ 30 hr			2.87
ECTS Credit of the Course			3.00

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	4	5	4	4	4	4	5	4	5	5	5	5	5	5	5	5
ÖK2	4	4	4	4	4	4	5	4	5	4	4	5	4	4	4	5
ÖK3	4	4	4	4	4	4	5	4	5	4	5	5	4	4	4	5
ÖK4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5

LO: Learning Objectives PQ: Program Qualifications

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