

ASTRONOMY AND SPACE

1	Course Title:	ASTRONOMY AND SPACE	
2	Course Code:	OTPS047	
3	Type of Course:	Optional	
4	Level of Course:	Short Cycle	
5	Year of Study:	0	
6	Semester:	0	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
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:	Öğr. Gör. Dr. ARZU ÖDEN ACAR	
15	Course Lecturers:	Yok/None	
16	Contact information of the Course Coordinator:	arzuodenacar@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	The aim of this course is to teach basic terms, concepts and definitions in astronomy.	
19	Contribution of the Course to Professional Development:	This course contributes to the student in establishing space-time relationships, creative and three-dimensional thinking, scientific processes and principles in the process of learning the basic concepts in astronomy.	
20	Learning Outcomes:		
		1	Explain the basic concepts in astronomy,
		2	Explain the development of astronomy science,
		3	Recognize the magnitudes in astronomy,
		4	Explain the solar system and its structure,
		5	Distinguish current views on the existence of the universe,
		6	Distinguish current information about space technologies.
		7	
		8	
		9	
		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Course content introduction		
2	Basic concepts in astronomy, units and sub-branches of astronomy		
3	Historical development of astronomy and tools used in astronomy		
4	Celestial coordinate system		
5	The law of gravitation		

6	Solar system	
7	Earth, Moon and Sun	
8	Movements of the Earth, Moon and Sun and their consequences	
9	Stars	
10	Galaxies	
11	Universe models	
12	Space technologies	
13	Scientists who contributed to astronomy	
14	General evaluation of the course	
22	Textbooks, References and/or Other Materials:	1. Kurnaz, M.A. (2021). Astronomi. Ankara: Pegem Academy. 2. Chaisson, E. & Mcmillan S. (2016). Astronomi: Bir bakışta evren. (Trans. Yıldız, M.). İstanbul: Nobel Publishing.
23	Assesment	
TERM LEARNING ACTIVITIES		NUMBE R
		WEIGHT
Midterm Exam		1
		40.00
Quiz		0
		0.00
Home work-project		0
		0.00
Final Exam		1
		60.00
Total		2
		100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Students are evaluated with 1 multiple choice midterm exam and 1 multiple choice final exam.
24	ECTS / WORK LOAD TABLE	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	2.00	28.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	14.00	14.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			104.00
Total work load/ 30 hr			3.00
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	3	1	1	1	1	1	1	1	3	1	1	3	0	0	0	0
ÖK2	3	1	1	1	1	1	1	1	3	1	1	3	0	0	0	0
ÖK3	3	1	1	1	1	1	1	1	3	1	1	3	0	0	0	0
ÖK4	3	1	1	1	1	1	1	1	3	1	1	3	0	0	0	0
ÖK5	3	1	1	1	1	1	1	1	3	1	1	3	0	0	0	0
ÖK6	3	1	1	1	1	1	1	1	3	1	1	3	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low			3 Medium			4 High			5 Very High				