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.
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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	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Success Grade	14	60.00
Total	100.00	

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

Course exam and 1 multiple choice final exam.

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**