

Course Code	Course Name	Teorical	Practice	Laboratory	Credits	ECTS
FZK-3039	Introduction to Space Physics	3.00	0.00	0.00	3.00	6.00
Course Detail						
Course Language	: Turkish					
Qualification Degree	: Bachelor					
Course Type	: Optional					
Preconditions	: Not					
Objectives of the Course	: It contains general information about space, near space and far space concepts, plasma definition.					
Course Contents	: Introduction to the concept of space. Planets and solar system concept. Information about the definition of exoplanets. Near space and far space concepts. What are stars and galaxies? Contains information on human space exploration.					
Recommended or Required Reading	: Introduction to Space Physics. MG Kivelson, 1995. Astronomy ve Astrophysics. S.Özdemir vd.2005 Solar and Space Physics: A Science for a Technological Society, 2013 by Nasa.					
Planned Learning Activities and Teaching Methods	: Lecture, Homework, Application					
Recommended Optional Programme Components	: Current reserach topics for student.					
Instructors	: Prof. Dr. Caner Çiçek					
Instructor's Assistants	: No					
Presentation Of Course	: Face to Face					

Course Outcomes

Upon the completion of this course a student :

- 1 Learns the concept of space and sky. Knows the definition of planet and satellite. Learn up-to-date information about the sun.
- 2 Learns solar and lunar edipses. Learns about telescopes. Knows by entering the star definition
- 3 It receives information about distant stars, Galaxies, and other planets. Learns the end of the stars.
- 4 Gains knowledge of Manned Space exploration.

Preconditions

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Weekly Contents

	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods
1.Week	*Space concept and Celestial sphere.				
2.Week	*Near Space and Far Space concepts and definition.				
3.Week	*Planetary movements, Close Planets.				
4.Week	*Distant Planets and the Astreoid Belt.				
5.Week	*The closest star: the sun and its properties				
6.Week	*Overview of solar and lunar eclipses.				
7.Week	*The concept of the other planet and life in the universe.				
8.Week	*Exam				
9.Week	*Ground-based telescopes and satellite telescopes				
10.Week	*Distant stars and interstellar medium.				
11.Week	*Galaxy Concept, Milky Way galaxy and its properties				
12.Week	*White dwarf, Black hole and Neutron star. End of the stars.				
13.Week	*Dark Matter, dark energy and the Universe				
14.Week	*Space flights and the exploration history of space.				

Assesment Methods %

1 Md Term Exam 1 : 40.000

2 Final : 60.000

