

Course Code	Course Name	Teorical	Practice	Laboratory	Credits	ECTS
FZK-3026	Practical Astronomy II	3.00	0.00	0.00	3.00	6.00
Course Detail						
<b>Course Language</b>	: Turkish					
<b>Qualification Degree</b>	: Bachelor					
<b>Course Type</b>	: Optional					
<b>Preconditions</b>	: Not					
<b>Objectives of the Course</b>	: To learn the fundamental and important observations of astrophysics and analyze and interpret these observation data.					
<b>Course Contents</b>	: This course aims to give information about Some Physical Properties of Stars, The Method of Spectroscopic Parallax, The Color-Magnitude Diagram for the Hyades, The Distance and Absolute Magnitude of a Galactic Nova, The Wolf Diagram for the Horsehead Nebula, Properties of Milkyway Galaxy, The Distance to the Galaxy M87, The Rotation and Mass of the Andromeda Galaxy M31, A Determination of the Hubble Constant, Gravitational Bending of Starlight, The Crab Nebula Pulsar, Observations of a Quasar.					
<b>Recommended or Required Reading</b>	: An Introduction to Experimental Astronomy, Roger B. Culver, Printed Freeman and Company.					
<b>Planned Learning Activities and Teaching Methods</b>	: Lecturing, application/practice, presentation of some related slides					
<b>Recommended Optional Programme Components</b>	: -					
<b>Instructors</b>	: Res. Assist. Dr. Afşar Kabaş					
<b>Instructor's Assistants</b>	: -					
<b>Presentation Of Course</b>	: Face to face					

## Course Outcomes

## Upon the completion of this course a student :

- 1 Performs various applications in astrophysics
- 2 Understands the dynamics of a galaxy
- 3 Meets the basic principles of cosmology
- 4 Meets an observational application of general relativity
- 5 Gains experience on astrophysical observation data

## Preconditions

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## Weekly Contents

	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods
1.Week	*Related topics in astrophysics				
2.Week	*Some physical properties of stars				
3.Week	*The Method of Spectroscopic Parallax				
4.Week	*The Color-Magnitude Diagram for the Hyades				
5.Week	*The Distance and Absolute Magnitude of a Galactic Nova				
6.Week	*The Wolf Diagram for the Horsehead Nebula				
7.Week	*Properties of Milkyway Galaxy				
8.Week	*The Distance to the Galaxy M87				
9.Week	*Midterm				
10.Week	*The Rotation and Mass of the Andromeda Galaxy M31				
11.Week	*A Determination of the Hubble Constant				
12.Week	*Gravitational Bending of Starlight				
13.Week	*The Crab Nebula Pulsar				
14.Week	*Observations of a Quasar				

## Assesment Methods %

1 Md Term Exam 1 : 40.000

2 Final : 60.000

## ECTS Workload

