Fizik Bölümü / PHYSICS /											
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											
Course Language	: Turkish										
Qualification Degree	: Bachelor										
Course Type	: Optional										
Preconditions	: Not										
Objectives of the Course	: To learn the fundamental and important observations of astrophysics and analy	ze and interpret these	e observation	data.							
Course Contents	Hyades, The Distance and Absolute Magnitude of a Galactic Nova, The Wolf D	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.									
Recommended or Require Reading	: An Introduction to Experimental Astronomy, Roger B. Culver, Printed Freeman	and Company.									
Planned Learning Activitie Teaching Methods	s and : Lecturing, application/practice, presentation of some related slides										
Recommended Optional Programme Components	: -										
Instructors	: Res. Assist. Dr. Afşar Kabaş										
Instructor's Assistants	:-										
Presentation Of Course	: 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

Course Code Course Name Teorical Practice Laboratory Credits ECTS

Weekly Co	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									
3.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

Activities	Count	Time(Hour)	Sum of Workload
Theoretical Lecturing	13	3.00	39.00
Mid Term Exam 1	1	3.00	3.00
Final Exam	1	3.00	3.00
Class Hours (14 weeks)	14	3.00	42.00
Final Exam Preparation	1	50.00	50.00
Mid Term Exam Preparation	1	30.00	30.00
		Total	: 167.00
		Sum of Workload / 30 (Hour)	: 6

ECTS: 6.00

Program And OutcomeRelation

	P.O.	1 P.O. 2	2 P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22	P.O. 23	P.O. 24
L.O. 1	5	5	4	4	4	5	4	3	4	3	3	5	4	4	3	0	0	0	0	0	0	0	0	0
L.O. 2	5	4	3	3	4	5	4	3	3	3	3	4	4	4	3	0	0	0	0	0	0	0	0	0
L.O. 3	5	4	3	3	3	4	4	3	3	3	3	4	4	4	3	0	0	0	0	0	0	0	0	0
L.O. 4	5	4	4	4	4	5	4	3	3	3	3	4	4	4	3	0	0	0	0	0	0	0	0	0
L.O. 5	4	4	4	4	4	4	4	3	4	4	3	4	4	4	3	0	0	0	0	0	0	0	0	0
4																								•

Ders/Program Çıktıları İlişkisi

P.O. 1 P.O. 2 P.O. 3 P.O. 4 P.O. 5 P.O. 6 P.O. 7 P.O. 8 P.O. 9 P.O. 10 P.O. 11 P.O. 12 P.O. 13 P.O. 14 P.O. 15 P.O. 16 P.O. 17 P.O. 18 P.O. 19 P.O. 20 P.O. 21 P.O. 22 P.O. 23 P.O. 24 P.O. 2