



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Astronomy							
Course Code		FBÖ402		Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit	5	Workload	125 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To learn basic concepts of astronomy.							
Course Content		Keppler Rules and Structure of Solar System: characteristics of the planets, satellites, General structure of Universe: galaxies, formation of stars, neutron star, red giants, white dwarfs, blackholes.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Prof Dr. Ömür AKYÜZ Fizik I and Fizik II
2	Prof Dr. Gengiz YALÇIN, Fiziğin Temelleri I and II
3	Ertaş, İ. (1996). "Denel Fizik: Cilt I, II". Ege Üniversitesi Basımevi.
4	Halliday, D & Resnick, R. (1986). "Fiziğin Temelleri". Arkadaş Yayınları
5	Keller F. J. & Getlys, W.E. & Skove, M. J. (1996) "Fizik I".Mc Graw Hill Publications.

Week	Weekly Detailed Course Contents	
1	Theoretical	Basic concepts of astronomy
	Preparation Work	Problem solving from Fiziğin Temelleri I and II
2	Theoretical	Keppler Rules
	Preparation Work	Problem solving from Fiziğin Temelleri I and II
3	Theoretical	Structure of Solar System
	Preparation Work	Problem solving from Fiziğin Temelleri I and II
4	Theoretical	Characteristics of planets, satellites
	Preparation Work	Problem solving from Fiziğin Temelleri I and II
5	Theoretical	Other members of Solar System (meteors, comets)
	Preparation Work	Problem solving from Fiziğin Temelleri I and II
6	Theoretical	General Structure of Universe
	Preparation Work	Problem solving from Fiziğin Temelleri I and II
7	Theoretical	Galaxies
	Preparation Work	Problem solving from Fiziğin Temelleri I and II
8	Theoretical	Formation of Stars Binary Stars
	Preparation Work	Problem solving from Fiziğin Temelleri I and II
9	Preparation Work	Problem solving from Fiziğin Temelleri I and II
	Intermediate Exam	Midterm Exam
10	Theoretical	The end of stars (red giants),
	Preparation Work	Problem solving from Fiziğin Temelleri I and II
11	Theoretical	Neutron stars
	Preparation Work	Problem solving from Fiziğin Temelleri I and II
12	Theoretical	White dwarfs
	Preparation Work	Problem solving from Fiziğin Temelleri I and II
13	Theoretical	Black Holes
	Preparation Work	Problem solving from Fiziğin Temelleri I and II
14	Theoretical	Space research and laws



14	Preparation Work	Problem solving from Fiziğin Temelleri I and II
15	Theoretical	Seasons and the cycle of day and night
	Preparation Work	Problem solving from Fiziğin Temelleri I and II
16	Preparation Work	Problem solving from Fiziğin Temelleri I and II
	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	14	0	2	28
Reading	14	0	2	28
Midterm Examination	1	16	1	17
Final Examination	1	23	1	24
Total Workload (Hours)				125
[Total Workload (Hours) / 25*] = ECTS				5
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Learns basic concepts about space and astronomy.
2	Learns how to teach about space and astronomy.
3	Follows current developments in astronomy.
4	Increases the interest and concern.
5	know the properties of planets.

Programme Outcomes (Science Teacher Education)

1	To be able to gain subject knowledge of profession in theory and practice in the learning process.
2	To be able to gain the competence of using the appropriate approach, strategy, method and technique for the instructional plans to be prepared in the learning process.
3	To be able to gain the skills of the teaching profession in the learning process.
4	To be able to implement teaching profession knowledge, skills, attitudes and habits related to the subject-matter in a real teaching and learning environment in the learning process.
5	To be able to comprehend contemporary approaches of education and the philosophy they are based on.
6	To be able to gain the basic skills such as comprehending, expressing, commenting, evaluating, being aware and enterprising, communicating, acknowledging the individual related to the subject-matter.
7	To be able to become individuals faithful to the Principles and Revolutions of Atatürk, be modern democratic, secular, protecting and developing one's country, being alive to the nation, respecting human rights, preserving the nature, not being discriminatory, giving importance to the traditions and customs, protecting the values
8	To be able to improve oneself in terms of sport, art and culture.
9	To be able to become individuals believing in lifelong learning.
10	To be able to gain the vision of being individuals who keep up with developments in social, economic, technological and scientific areas, who investigate the main reasons of World problems and try to contribute to the solutions of these problems.

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4
P1	3			
P2	5			
P3		3		
P4		3		
P6				4
P9			3	4
P10			3	4

