Course Information

COURSE INFORMATION

Course Title	Code	Semester	L+U Hour	Credits	ECTS
General Astronomy I	FZK369	5. Semester	2 + 2	3.0	7.0

Prerequisites	None

Language of Instruction	English
Course Level	Bacheclor's Degree (First Cycle)
Course Type	Elective
Mode of delivery	Face to face
Course Coordinator	Prof. Dr. Osman DEMİRCAN
Instructors	Prof. Dr. Osman DEMİRCAN
Assistants	
Course Objectives	The aim of the course is understanding the basic astronomical concepts and some celestical events. Learning about apparent motion of celestial syphere and orbits in the solar system.
Course Content	Basic concepts in astronomy, visible motions of heavinly bodies, daily motion, description of horison circle, meridian plane and celestial sphere, visible motion of the Sun, the moon and planets. Kepler laws, Coordinate systems, time, events happened on celestial sphere, motion of Earth, paralactic motion of stars, annual regular motion in stars radial velocity, the Moon and its distance, size and mass. The Moon's rotational motion and orbital motion.
Course Learning Outcomes	1) Explains the basic concepts of astronomy. 2) Interprets apparent motions of celestial bodies, circle of the horizon and the meridian plane by drawing 3) Interprets of the distance, size and mass of the Moon. 4) Explains movements of members of the solar system using Kepler’s laws. 5) Describes the coordinate systems.

WEEKLY COURSE CONTENT

Week	Topics	Teaching and Learning Methods and Techniques	Study Materials
1. Week	Basic concepts of astronomy		
2. Week	Apparent motions of the celestial bodies		
3. Week	Daily motion, the horizon		
4. Week	Meridian plane		

Quick Access

Physics
- Qualification Awarded
- Level of Qualification
- Qualification Requirements and Regulations
- Specific Admission Requirements
- Recognition of Prior Learning
- Profile of the Program
- Program Key Learning Outcomes
- Occupational Profile of Graduates
- Access to Further Studies
- Course Structure & Credits
- Exam Regulations & Assessment & Grading
- Graduation Requirements
- Mode of Study
- Programme Director(or Equivalent)
- Evaluation Questionnaire
- TYYÇ

Course Information
- Course Information
- Weekly Course Content
- Resources
- Assessment
- CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES
- ECTS credits and course workload

5. Week	Describing and drawing of the celestial sphere		
6. Week	Apparent motions of the Sun.		
7. Week	Moon, distance, size and mass of the Moon		
8. Week	Rotational and orbital motion of the Moon.		
9. Week	Midterm Exam		
10. Week	Apparent motions of the Moon.		
11. Week	Apparent motions of the planets.		
12. Week	Motion of the Earth, Kepler’s laws.		
13. Week	Coordinate systems		
14. Week	Time		
15. Week	Events in the acting on the celestial coordinates		
16. Week	Final Exam		

RESOURCES

Recommended Sources
"Genel Astronomi I", Prof.Dr. Salih Karaali, İstanbul Üniversitesi Yayınları, 1985
"Astronomi ve Uzay Bilimleri", Z.Aslan, C.Aydın, O.Demircan, E. Derman, H.Kırbıyık, Kriter Yayınları, 2012
"Astronomi ve Astrofizik", Eds: S.Özdemir, B.Gürol, O.Demircan, Asil Yayıncılık, 2005

ASSESSMENT

Measurement and Evaluation Methods and Techniques		
Midterm Exam (40%), Final Exam (60%)		
In-Term Studies	**Quantity**	**Percentage**
Mid Term Exam 1	1	40
Total	1	40
End-Term Studies	**Quantity**	**Percentage**
Final Exam	1	60
Total	1	60
Contribution Of In-Term Studies To Overall Grade		40
End-Term Studies		60
Total		100

CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES

Programme Outcomes	Contribution Level	DK1	DK2	DK3	DK4	DK5
PY1	3	0	0	0	0	0
PY2	2	0	0	0	0	0
PY3	4	0	0	0	0	0
PY4	2	0	0	0	0	0
PY5	4	0	0	0	0	0
PY6	4	0	0	0	0	0
PY7	3	0	0	0	0	0

PY8	2	0	0	0	0	0
PY9	1	0	0	0	0	0
PY10	4	0	0	0	0	0
PY11	4	0	0	0	0	0
PY12	3	0	0	0	0	0
PY13	2	0	0	0	0	0
PY14	1	0	0	0	0	0
PY15	2	0	0	0	0	0

*DK = Course's Contrubution.

	0	1	2	3	4	5
Level of contribution	None	Very Low	Low	Fair	High	Very High

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ECTS CREDITS AND COURSE WORKLOAD

Event	Quantity	Duration (Hour)	Total Workload (Hour)
Final Exam	1	2	2
Mid Term Exam 1	1	1	1
Mid Term Exam 2	1	1	1
Quiz 1	0	0	0
Quiz 2	0	0	0
Assignment 1	8	8	64
Application/Practice	8	4	32
Class Hours (14 weeks)	16	4	64
Mid Term Exam Preparation	1	5	5
Final Exam Preparation	1	8	8
		Total Workload	177
		Total Workload / 25.5 (s)	6.94
		ECTS Credit of the Course	7