Course Information

COURSE INFORMATION

Course Title	Code	Semester	L+U Hour	Credits	ECTS
Practical Astronomy	FZK379	5. Semester	2 + 2	3.0	7.0

Prerequisites	None

Language of Instruction	Turkish
Course Level	Bacheclor's Degree (First Cycle)
Course Type	Elective
Mode of delivery	Face to face
Course Coordinator	Assoc. Prof. Dr. İbrahim BULUT
Instructors	
Assistants	
Course Objectives	This course aims to give information about transit of Venüs and Uranus, movement in space of Bardard star, colour-brightness diagram of Hyades, absolute brightness, properties of Milky Way and Andromeda galaxies, determination of Hubble space constant,, observation of puslar and quasar .
Course Content	A determination of the Speed of Light,Positional Astronomy,Photometric Astronomy,The Distance Between the Earth and Sun ,Observational of an Artificial Satellite,The Atmospheres of Venus and Mars,The Continuous Spectrum of the Sun,The Space Motion of Barnard's Star,Some Physical Properties of Stars,The Method of Spectroscopic Paralax,The Color-Magnitude Diagram for the Hyades,Properties of the Milky Way Galaxy,The Distance to the Galaxy M87,A Determination of the Hubble Constant
Course Learning Outcomes	1) Explains to properties of Uranus, Venus and Mars planets. 2) Calculates movement of Barnard star, brightness and distance of nova. 3) Interprets colour-brightness diagram of Hyades and Wolf diagram of Horsehead nebula. 4) Gives some information about properties of Milky Way and Andromeda galaxies. 5) Calculates Hubble space constant. 6) Explains how can do observations of pulsar and quasar.

WEEKLY COURSE CONTENT

Week	Topics	Teaching and Learning Methods and Techniques	Study Materials
1. Week	A determination of the Speed of Light	Lesson Application, Pratic	
2. Week	Positional Astronomy	Lesson Application, Pratic	

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
- CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES
- ECTS credits and course workload

3. Week	Photometric Astronomy	Lesson Application, Pratic	
4. Week	The Distance Between the Earth and Sun	Lesson Application, Pratic	
5. Week	Observational of an Artificial Satellite	Lesson Application, Pratic	
6. Week	The Atmospheres of Venus and Mars	Lesson Application, Pratic	
7. Week	The Continuous Spectrum of the Sun	Lesson Application, Pratic	
8. Week	The Space Motion of Barnard's Star	Lesson Application, Pratic	
9. Week	Some Physical Properties of Stars	Lesson Application, Pratic	
10. Week	The Method of Spectroscopic Paralax	Lesson Application, Pratic	
11. Week	The Color-Magnitude Diagram for the Hyades	Lesson Application, Pratic	
12. Week	Properties of the Milky Way Galaxy	Lesson Application, Pratic	
13. Week	The Distance to the Galaxy M87	Lesson Application, Pratic	
14. Week	A Determination of the Hubble Constant	Lesson Application, Pratic	
15. Week	Review of the Semester	Lesson Application, Pratic	
16. Week	Final	Exam	

RESOURCES

Recommended Sources
An Introduction to Experimental Astronomy, Roger B. Culver, Printed Freeman and Company.

ASSESSMENT

Measurement and Evaluation Methods and Techniques
Midterm exam, final exam

CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES

Programme Outcomes	Contribution Level	DK1	DK2	DK3	DK4	DK5	DK6
PY1	3	3	3	3	4	2	5
PY2	4	3	3	4	4	5	5
PY3	4	3	3	4	4	4	4
PY4	3	2	2	3	3	4	4
PY5	3	3	2	4	5	5	4
PY6	4	4	4	4	4	4	4
PY7	3	4	4	3	3	3	4
PY8	4	3	3	4	4	4	4
PY9	3	2	3	4	4	4	3
PY10	4	4	3	3	4	4	4

PY11	3	3	4	4	4	3	5
PY12	3	4	4	4	4	4	4
PY13	2	2	3	4	5	4	3
PY14	2	2	2	2	3	3	3
PY15	3	4	3	3	3	4	4

*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)
Class Hours (14 weeks)	16	4	64
Final Exam Preparation	1	5	5
Mid Term Exam Preparation	1	5	5
Assignment 1	8	8	64
Application/Practice	14	3	42
		Total Workload	180
		Total Workload / 25.5 (s)	7.06
		ECTS Credit of the Course	7