# Course Information

## COURSE INFORMATION

| Course Title | Code | Semester | L+U Hour | Credits | ECTS |
|---|---|---|---|---|---|
| Astronomy of Solar System | FZK375 | 5. Semester | 2 + 2 | 3.0 | 7.0 |

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| **Prerequisites** | None |

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| **Language of Instruction** | Turkish |
| **Course Level** | Bacheclor's Degree (First Cycle) |
| **Course Type** | Elective |
| **Mode of delivery** | Face to face |
| **Course Coordinator** | Prof. Dr. Osman DEMİRCAN |
| **Instructors** | |
| **Assistants** | |
| **Course Objectives** | The aim of this course formation theories of the solar system. İnternal structures, surface properties, orbit planes, atmospheres of planets in the solar systems. The comets, meteors, kuiper blet, Oort nebula. |
| **Course Content** | Formation theories of solar system,Spent during the bombardment of the surfaces of the planet f of the first ormation process,The orbits of the nine planets in our system Internal structures of the nine planets in our system,Surface properties of the nine planets in our system,Atmospheres of the nine planets in our system ,The orbits of the nine planets natural satellites, internal structure, surface shapes and atmospheres,Location-like planets in the greenhouse effect,Small planets and comets,Meteors and falling stars,Interplanetary medium, Oort cloud and kupier band,Other stars have the planet. |
| **Course Learning Outcomes** | 1) Explains what the formation of the solar system is.<br>2) Describes how the orbits, internal structure, surface properties, atmospheres of planets in the solar systems are.<br>3) Explains to small planets and comets.<br>4) Gives some informations about interplanetary medium, Oort nebula and Kuiper belt. |

## WEEKLY COURSE CONTENT

| Week | Topics | Teaching and Learning Methods and Techniques | Study Materials |
|---|---|---|---|
| 1. Week | Formation theories of solar system | | |
| 2. Week | Spent during the bombardment of the surfaces of the planet f of the first ormation process | | |
| 3. Week | The orbits of the nine planets in our system | | |
| 4. Week | Internal structures of the nine planets in our system. | | |

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

| | | | |
|---|---|---|---|
| 5. Week | Surface properties of the nine planets in our system - I | | |
| 6. Week | Surface properties of the nine planets in our system - II | | |
| 7. Week | Atmospheres of the nine planets in our system - I | | |
| 8. Week | Atmospheres of the nine planets in our system - II | | |
| 9. Week | Midterm Exam | | |
| 10. Week | The orbits of the nine planets natural satellites, internal structure, surface shapes and atmospheres. | | |
| 11. Week | Location-like planets in the greenhouse effect. | | |
| 12. Week | Small planets and comets. | | |
| 13. Week | Meteors and falling stars. | | |
| 14. Week | Interplanetary medium, Oort cloud and kupier band. | | |
| 15. Week | Other stars have the planet. | | |
| 16. Week | Final Exam | | |

## RESOURCES

| Recommended Sources |
|---|
| "Universe,"R.A. Freedman, W.J. Kaufmann,W.H. Freeman and Company,, 6th ed., 2002 |
| "An introduction to modern astrophysics", B.W. carroll, D.A., Ostlie, Addison Wesley,1995 |

## ASSESSMENT

| Measurement and Evaluation Methods and Techniques |
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| Midterm Exam (40%), Final Exam (60%) |

## CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES

| Programme Outcomes | Contribution Level | DK1 | DK2 | DK3 | DK4 |
|---|---|---|---|---|---|
| PY1 | 4 | 4 | 4 | 5 | 5 |
| PY2 | 5 | 5 | 5 | 5 | 5 |
| PY3 | 4 | 5 | 5 | 4 | 4 |
| PY4 | 5 | 5 | 5 | 4 | 5 |
| PY5 | 4 | 4 | 4 | 4 | 4 |
| PY6 | 4 | 5 | 4 | 4 | 4 |
| PY7 | 4 | 5 | 4 | 4 | 4 |
| PY8 | 3 | 4 | 4 | 4 | 4 |
| PY9 | 5 | 5 | 4 | 4 | 4 |
| PY10 | 4 | 4 | 4 | 4 | 4 |
| PY11 | 0 | 0 | 0 | 0 | 0 |
| PY12 | 0 | 0 | 0 | 0 | 0 |
| PY13 | 0 | 0 | 0 | 0 | 0 |
| PY14 | 0 | 0 | 0 | 0 | 0 |
| PY15 | 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) |
|---|---|---|---|
| Class Hours (14 weeks) | 15 | 4 | 60 |
| Final Exam Preparation | 1 | 7 | 7 |
| Mid Term Exam Preparation | 1 | 6 | 6 |
| Assignment 1 | 8 | 8 | 64 |
| Application/Practice | 14 | 3 | 42 |
| | | **Total Workload** | 179 |
| | | **Total Workload / 25.5 (s)** | 7.02 |
| | | **ECTS Credit of the Course** | 7 |