# Course Information

## COURSE INFORMATION

| Course Title | Code | Semester | L+U Hour | Credits | ECTS |
|---|---|---|---|---|---|
| Academic Foreing Language IV | FZK368.2 | 6. Semester | 3 + 0 | 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** | Assist. Prof. Dr. Gülnur GÜN |
| **Instructors** | |
| **Assistants** | |
| **Course Objectives** | The aim of this course is to translate the selected physics texts that are written in English to Turkish and presents them. |
| **Course Content** | The translation text – I : Galileo Galilei, Isaac Newton, Daniel Bernoulli, The translation text – II : Benjamin Thompson,James Prescott Joule, Lord, The translation text – III : Sadi Carnot,Rudolph Clausius,Charles Coulomb, The translation text – IV : Adiabatic process for an ideal gas, The translation text - V: Relativistic Momentum, The translation text – VI : Binding Energy, The translation text – VII : Classification of particles, The translation text - VIII : Atomic transitions, The translation text - IX : Bohr's Quantum model of Atom, The translation text - X : Images formed by Spherical mirrors, The translation text - XI : Interference in thin films, The translation text - XII : Diffraction of X-rays by crystals, The translation text - XIII : Lasers and holography, The translation text - XIV : Energy gap measurements |
| **Course Learning Outcomes** | 1) Understand when read a physics text which is written in English.<br>2) Analyse a physics text which is written in English.<br>3) write a physics text in English<br>4) Present a physics text in English<br>5) Summarize physics texts that are written in English. |

## WEEKLY COURSE CONTENT

| Week | Topics | Teaching and Learning Methods and Techniques | Study Materials |
|---|---|---|---|
| 1. Week | The translation text – I : Galileo Galilei, Isaac Newton, Daniel Bernoulli | Face to face lecture and translate the relevant course materials, Others (Question-Answer)Lecture | |

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

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|---|---|---|---|
| 2. Week | The translation text – II : Benjamin Thompson,James Prescott Joule, Lord | Face to face lecture and translate the relevant course materials, Others (Question-Answer)Lecture | |
| 3. Week | The translation text – III : Sadi Carnot,Rudolph Clausius,Charles Coulomb | Face to face lecture and translate the relevant course materials, Others (Question-Answer)Lecture | |
| 4. Week | The translation text – IV : Adiabatic process for an ideal gas | Face to face lecture and translate the relevant course materials, Others (Question-Answer)Lecture | |
| 5. Week | The translation text - V: Relativistic Momentum | Face to face lecture and translate the relevant course materials, Others (Question-Answer)Lecture | |
| 6. Week | The translation text – VI : Binding Energy | Face to face lecture and translate the relevant course materials, Others (Question-Answer)Lecture | |
| 7. Week | The translation text – VII : Classification of particles | Face to face lecture and translate the relevant course materials, Others (Question-Answer)Lecture | |
| 8. Week | Midterm exam | (Written or test exam)Lecture | |
| 9. Week | The translation text - VIII : Atomic transitions | Face to face lecture and translate the relevant course materials, Others (Question-Answer)Lecture | |
| 10. Week | The translation text - IX : Bohr’s Quantum model of Atom | Face to face lecture and translate the relevant course materials, Others (Question-Answer)Lecture | |
| 11. Week | The translation text - X : Images formed by Spherical mirrors | Face to face lecture and translate the relevant course materials, Others (Question-Answer)Lecture | |
| 12. Week | The translation text - XI : Interference in thin films | Face to face lecture and translate the relevant course materials, Others (Question-Answer)Lecture | |
| 13. Week | The translation text - XII : Diffraction of X-rays by crystals | Face to face lecture and translate the relevant course materials, Others (Question-Answer)Lecture | |
| 14. Week | The translation text - XIII : Lasers and holography | Face to face lecture | |

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|---|---|---|---|
| | | and translate the relevant course materials, Others (Question-Answer)Lecture | |
| 15. Week | The translation text - XIV : Energy gap measurements | Face to face lecture and translate the relevant course materials, Others (Question-Answer)Lecture | |
| 16. Week | Final exam | (Written or test exam)Lecture | |

## RESOURCES

| Recommended Sources |
|---|
| Edis, P. (1983), Reading and Exercises in Technical English, ITU Dil ve Inkilap Tarihi Bölümü |
| Serway, R.A., Beichner, R.J., Jevett, J.W., (2000), Physics for Scientist and Engineers,Saunders College Publishing. |
| Ozturk, C. (1997), Building Skills for Proficiency, METU, Hacettepe-Tas. METU Department of Basic English (1987),Grammer Supplementary Material and Exercises, Ankara |

## ASSESSMENT

| Measurement and Evaluation Methods and Techniques |
|---|
| Midterm exam + Presentation ( 40 %), Final exam ( 60 %) |

## COURSE CATEGORY

| Course Category | Percentage |
|---|---|
| Core Courses | % 100 |

## CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES

| Programme Outcomes | Contribution Level | DK1 | DK2 | DK3 | DK4 | DK5 |
|---|---|---|---|---|---|---|
| PY1 | 5 | 5 | 5 | 5 | 5 | 5 |
| PY2 | 3 | 3 | 3 | 3 | 3 | 3 |
| PY3 | 1 | 1 | 1 | 1 | 1 | 1 |
| PY4 | 3 | 3 | 3 | 3 | 3 | 3 |
| PY5 | 2 | 2 | 2 | 2 | 2 | 2 |
| PY6 | 4 | 4 | 4 | 4 | 4 | 4 |
| PY7 | 1 | 1 | 1 | 1 | 1 | 1 |
| PY8 | 2 | 2 | 2 | 2 | 2 | 2 |
| PY9 | 5 | 5 | 5 | 5 | 5 | 5 |
| PY10 | 5 | 5 | 5 | 5 | 5 | 5 |
| PY11 | 3 | 3 | 3 | 3 | 3 | 3 |
| PY12 | 5 | 5 | 5 | 5 | 5 | 5 |
| PY13 | 3 | 3 | 3 | 3 | 3 | 3 |
| PY14 | 5 | 5 | 5 | 5 | 5 | 5 |
| PY15 | 1 | 1 | 1 | 1 | 1 | 1 |

*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) | 14 | 3 | 42 |
| Final Exam Preparation | 1 | 22 | 22 |
| Mid Term Exam Preparation | 1 | 13.5 | 13.5 |
| Final Exam | 1 | 2 | 2 |
| Mid Term Exam 1 | 1 | 1 | 1 |
| Preliminary Study | 14 | 3 | 42 |
| Further Study | 14 | 3 | 42 |
| Presentation/Seminar | 1 | 14 | 14 |
| | | **Total Workload** | 178.5 |
| | | **Total Workload / 25.5 (s)** | 7.00 |
| | | **ECTS Credit of the Course** | 7 |