# DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGIES
## COURSE SYLLABUS

| Course Details | | | | |
|---|---|---|---|---|
| **Code** | **Academic Year** | | | **Semester** |
| EBT401 | 4 | | | 7 |
| **Title** | **T** | **A** | **L** | **ECTS** |
| Project I (Thesis Preparation) | 4 | 1 | 0 | 6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **Language** | German | | | | | |
| **Level** | **Undergraduate** | **X** | **Graduate** | | **Postgraduate** | |
| **Department / Program** | Energy Science and Technology | | | | | |
| **Forms of Teaching and Learning** | Face-to-face | | | | | |
| **Course Type** | **Compulsory** | **X** | **Elective** | | | |
| **Objectives** | The course aims to develop students' academic writing skills as well as their project presentation and communication techniques. | | | | | |
| **Content** | It seeks to enhance students' professional academic writing abilities by encouraging them to brainstorm, write, classify, and organize their thoughts, while also using sources to integrate direct quotations, paraphrases, and summaries into their essays. By the end of the course, students are expected to be able to write two basic types of essays (Cause and Effect and Argumentative essays) based on their research findings. | | | | | |
| **Prerequisites** | | | | | | |
| **Coordinator** | Assist. Prof. Dr. Meltem Karaismailoğlu Elibol | | | | | |
| **Lecturer(s)** | Assist. Prof. Dr. Meltem Karaismailoğlu Elibol | | | | | |
| **Assistant(s)** | | | | | | |
| **Work Placement** | No | | | | | |

| Recommended or Required Reading | |
|---|---|
| **Books / Lecture Notes** | Course notes and slides |
| **Other Sources** | |

| Additional Course Material | |
|---|---|
| **Documents** | |
| **Assignments** | 1 Project |
| **Exams** | |

| Course Composition | | |
|---|---|---|
| **Mathematics und Basic Sciences** | | % |
| **Engineering** | | % |

## DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGIES
## COURSE SYLLABUS

| | | |
|---|---|---|
| **Engineering Design** | | % |
| **Social Sciences** | | % |
| **Educational Sciences** | 100 | % |
| **Natural Sciences** | | % |
| **Health Sciences** | | % |
| **Expert Knowledge** | | % |

### Assessment

| Activity | Count | Percentage (%) |
|---|---|---|
| **Midterm Exam** | | |
| **Quiz** | | |
| **Assignments** | | |
| **Attendance** | | |
| **Recitations** | | |
| **Projects** | 1 | 100 |
| **Final Exam** | | |
| | **Total** | **100** |

### ECTS Points and Work Load

| Activity | Count | Duration | Work Load (Hours) |
|---|---|---|---|
| **Lectures** | 14 | 4 | 56 |
| **Self-Study** | 14 | 2 | 28 |
| **Assignments** | - | - | - |
| **Presentation / Seminar Preparation** | 1 | 14 | 14 |
| **Midterm Exam** | - | - | - |
| **Recitations** | 1 | 14 | 14 |
| **Laboratory** | - | - | - |
| **Projects** | 8 | 7 | 56 |
| **Final Exam** | - | - | - |
| | | **Total Work Load** | **168** |
| | | **ECTS Points** (Total Work Load / Hours) | **6** |

### Learning Outcomes

| | |
|---|---|
| **1** | Students prepare study programs aimed at identifying and solving problems on a specific topic. |
| **2** | Students conduct in-depth research on theoretical knowledge and develop their unique perspectives through literature reviews. |
| **3** | Students enhance their skills in conducting their own analyses and proposing solutions. |
| **4** | Students learn data analysis and interpretation processes, gaining the ability to evaluate their findings in-depth by comparing them with the literature. |
| **5** | Students develop critical thinking skills and improve their ability to find innovative solutions to problems. |

## DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGIES
## COURSE SYLLABUS

| | |
|---|---|
| **6** | Students report each stage of the project process both in written and oral formats. |
| **Weekly Content** | |
| **1** | Introduction to Project Work |
| **2** | Project Methods |
| **3** | Project Methods |
| **4** | Literature Review |
| **5** | Literature Review |
| **6** | Examination of Sources |
| **7** | Discussion of Current Progress |
| **8** | Presentation |
| **9** | Discussion of Current Progress |
| **10** | Observation of Applications in the Study |
| **11** | Organization and Content Analysis of the Study |
| **12** | Organization and Content Analysis of the Study |
| **13** | Evaluation of the Final Version of the Study |
| **14** | Presentation |
| **15** | Presentation |
| **16** | Project |

**Contribution of Learning Outcomes to Program Objectives (1-5)**

| | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 |
|---|---|---|---|---|---|---|---|---|---|
| **1** | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 |
| **2** | 5 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 4 |
| **3** | 5 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 5 |
| **4** | 4 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 5 |
| **5** | 3 | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 4 |
| **6** | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 5 |

| | |
|---|---|
| **Contribution Level** | 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High |

**https://obs.tau.edu.tr/oibs/bologna/progLearnOutcomes.aspx?lang=EN&curSunit=5706**

| | |
|---|---|
| **Compiled by:** | Arş. Gör. Anıl Can Duman |
| **Date of Compilation:** | 24.01.2025 |

# DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGIES
## COURSE SYLLABUS