# ADIYAMAN UNIVERSITY FACULTY OF ENGINEERING

INTRODUCTION BOOKLET

2025 - 2026

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## About The Faculty

The main purpose of the Faculty of Engineering is to provide engineering education at both undergraduate and postgraduate level. The academic programs of the departments are prepared to train contemporary engineers equipped with research and development skills. There are common courses in all departments of the faculty, in addition to these, in each department, compulsory and elective courses are given according to their field of study and education program. In general, the programs of the departments have a very dynamic structure and they can follow new developments in engineering sciences and provide integration. Research opportunities are available within the faculty, research projects are prepared in various subjects in the departments and research activities are carried out in line with the needs of our country, region and city. Our faculty is open to any ideas that may be the subject of research from outside the university.

## Administiration

### Dean

Prof. Dr. Cem ONAT - Mechanical Engineering

### Vise Dean

Prof. Dr. İsmail BOZKURT - Mechanical Engineering

Assoc. Prof. Dr. Musa EŞİT - Civil Engineering

### Faculty Secretary

Mehmet Akif NERGİZ

## Mission&Vision

### Mission

To provide students with the knowledge and working skills required by the engineering profession, to produce contemporary and universal knowledge and technology, to present the information produced to the use of the society, to train well-equipped engineers who have adopted our core values.

### Vision

To have academic staff who have adopted research, lifelong learning and teaching with modern science and technology. Also our goals can be listed as follows; Constantly updating the research, development and teaching infrastructure,Developing projects that will transform knowledge into social and industrial benefits,Creating cleaner production awareness with the harmony of "Ecological - Technological - Economic"

components,Preferred in the first place,Putting the intellectual knowledge and interdisciplinary cooperation in the foreground,Respectful to ethical values.

Strategic Objectives

1-Improving the social and environmental conditions of our faculty.

2-Increasing efficiency in management and service processes.

3-Improving the quality of education and training.

4-Improving the opportunities to access information.

5-Development of Research and Development opportunities.

6-Effective promotion of the faculty.

7- To provide a better education at national level.

8- To produce knowledge by doing scientific research and publication.

9- To produce services that will contribute to society.

## Departments

The Faculty of Engineering currently has the following 7 Departments.

- Computer engineering
- Environmental engineering
- Electrical electronics Engineering
- The food Engineering
- Civil Engineering
- Mechanical Engineering
- Textile engineering

# ENGINEERING FACULTY

# CONTACT INFORMATION


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# ADIYAMAN UNIVERSITY
# FACULTY OF ENGINEERING
# DEPARTMENT OF
# COMPUTER ENGINEERING

INTRODUCTORY BOOKLET

2025 - 2026

## CONTENTS


- Our Department
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- The Importance of Department and Educational Objectives
- Why Computer Engineering?
- Job Opportunities for Graduates
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## Department of Computer Engineering

The department of computer engineering was established in 2012 and will continue to accept students from the 2022-2023 academic year. Computer Engineering Department provides service in the Faculty of Engineering building completed in 2016, the new building with a total area of 4000 $m^2$ has 8 classrooms for 50 people and one PC laboratory for 60 people other PC laboratory for 50 people.

As of 2024, there are a total of 7 faculty members working in our department, including 1 associate professor, 3 assistant professors, 1 lecturer and 2 research assistant.

## Head of Department

Assoc. Prof. Dr. Sercan YALÇIN

## Deputy Head of Department

Asst. Prof. Dr. Hüseyin VURAL

## Academic Staff

Assoc. Prof. Dr. Sercan YALÇIN

Asst. Prof. Dr. Ferdi DOĞAN

Asst. Prof. Dr. Hüseyin VURAL

Asst. Prof. Dr. Ersan YAZAN

Lec. Dr. Zeynel Abidin SAMAK

Rsc. Asst. Abuzer DOGAN

Rsc. Asst. Arzu SEVİNÇ

## Secretary of Department

Kadriye GÜNDÜZ

## Mission &Vision

### Mission

To train computer engineers who have the potential to shape the information age we are in and are well-equipped in basic computer and informatics subjects; to instil in them a sceptical approach and awareness of ethical behavior and to teach them lifelong learning. To undertake universal studies in all fields of computer engineering; To be an R&D partner where cooperation is sought in all kinds of scientific activities.

### Vision

To be a department where qualified academics train globally sought- after graduates in the field of computer engineering in cooperation with industry and government institutions in a synergetic framework, using a highly developed research and teaching infrastructure, and direct academic studies in the field with their publications.

## The Importance of Computer Engineering Department

Department of Computer Engineering, with the title of computer engineer gained on a solid foundation and engineering sciences background, can find a qualified job in national or international information institutions or in the academic field, analyze the functioning of an existing system, identify problems and find original and creative solutions, design and implement a new system, able to design projects, to make progress in business life, to make individual and team work, to express himself orally and in writing, to follow the sources written in a foreign language, to be open to innovations and self-confident, as well as sensitive to the problems of our age and fulfilling his profession with the responsibility required by this sensitivity, In order to train computer engineers who can act in accordance with ethical principles, it carries out an education plan that aims to train our students in the best way in both respects by reconciling theory and practice. The program includes compulsory courses related to both basic

engineering sciences and computer engineering. In addition to the compulsory courses in the education plan, there are also optional courses that students can choose according to their own preferences. Thus, the Department of Computer Engineering trains modern engineers who are equipped with the knowledge and skills to serve in all areas of the Computer Engineering profession on a national and international scale, develop themselves by following the developments in their field, are prone to teamwork, are inquisitive, and attach importance to ethical values.

Educational Objectives of the Department include;

- To train researcher graduates who can work in national and international universities and research institutions and do postgraduate studies.
- To train computer engineers who can pursue successful careers and reach leading positions in national and international organizations operating in the field of computer software/hardware.

- To train engineers who can produce professional and scientific projects and take an active role in these projects with the knowledge and skills they have acquired.
- To train engineers who follow current developments, have the ability to think critically and analytically, adopt ethical awareness, and have high communication power, to ensure that they can find qualified jobs in their field.

## Why Computer Engineering?

Having a degree in computer engineering gives you the benefits of a broad knowledge, problem-solving and logical thinking ability, no matter what field you're working in. Many universities and employers see success in a computer science course or field as an indicator of versatility.

## Job Opportunities for Graduates

Computer Engineering is a sought-after and in-demand field in all fields of technology. Our graduates can work in a wide range of positions, from software development to hardware design, from cyber security to data science.

Graduates of our department has the opportunity to work both in the public and private sectors as;

- Software / Hardware Specialist,
- Data Analyst,
- Database Specialist,
- Business analyst / System analyst
- Quality Control and Testing Specialist,
- Web Design Specialist,
- Graphic Design and Drawing,

- Information System Specialist
- Game engineer
- System programmer,
- Network administrator / System administrator

## The Highest and the Lowest Placement Scores According to the Central Placement Results

According to the central placement results announced by the Presidency of Measurement, Selection and Placement Center (OSYS) in 2024 undergraduate students were placed in our department with the highest score of 388.90627 and the lowest score of 300.84943. Our quota for 45 undergraduate students has been filled. A total of 141 undergraduate students continues their education in our department.

# Undergraduate Course Catalogue

## 1. Semester

| Course Code | Course Name | C/E | T | P | L | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| **AİİT101** | Ataturk's Principles and History of Revolutions I | C | 2 | 0 | 0 | 2 | 2 |
| **FİZ101** | Physics I | C | 2 | 0 | 2 | 3 | 4 |
| **KİM101** | Chemistry | C | 2 | 0 | 2 | 3 | 4 |
| **MAT101** | Calculus I | C | 3 | 1 | 0 | 4 | 5 |
| **TD101** | Turkish Language I | C | 2 | 0 | 0 | 2 | 2 |
| **YD101** | English Language I | C | 2 | 0 | 0 | 2 | 3 |
| **BIL101** | Algorithm and Programming I | C | 3 | 0 | 2 | 4 | 6 |
| **BIL103** | Introduction to Computer Engineering | C | 2 | 2 | 0 | 3 | 4 |
| **Total** | | | **18** | **3** | **6** | **23** | **30** |

## 2. Semester

| Course Code | Course Name | C/E | T | P | L | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| **AİİT102** | Ataturk's Principles and History of Revolutions II | C | 2 | 0 | 0 | 2 | 2 |
| **FİZ102** | Physics II | C | 2 | 0 | 2 | 3 | 4 |
| **MAT102** | Calculus II | C | 3 | 1 | 0 | 4 | 5 |
| **MAT104** | Linear Algebra | C | 2 | 0 | 0 | 2 | 3 |
| **TD102** | Turkish Language II | C | 2 | 0 | 0 | 2 | 2 |
| **YD102** | English Language II | C | 2 | 0 | 0 | 2 | 3 |
| **BIL102** | Algorithm and Programming II | C | 3 | 0 | 2 | 4 | 6 |
| **BIL104** | Computer Hardware | C | 2 | 1 | 0 | 3 | 5 |
| **Total** | | | **18** | **2** | **4** | **22** | **30** |

## 3. Semester

| Course Code | Course Name | C/E | T | P | L | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| **MUH201** | Statistics for Engineers | C | 2 | 0 | 0 | 2 | 3 |
| **BIL201** | Discrete Mathematics | C | 3 | 1 | 0 | 4 | 5 |
| **BIL203** | Database | C | 2 | 0 | 1 | 3 | 5 |
| **BIL205** | Object Oriented Programming | C | 3 | 0 | 1 | 4 | 6 |
| **BIL207** | Data Structures | C | 3 | 0 | 1 | 4 | 6 |
| **BİL209** | Professional English Language I | C | 3 | 0 | 0 | 3 | 3 |
| **SOSSEC1** | Social Elective Course | E | 2 | 0 | 0 | 2 | 2 |
| **Total** | | | **18** | **1** | **3** | **22** | **30** |

## 4. Semester

| Course Code | Course Name | C/E | T | P | L | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| MAT202 | Differential Equations | C | 3 | 0 | 0 | 3 | 4 |
| MUH204 | Occupational Health and Safety | C | 2 | 0 | 0 | 2 | 3 |
| BIL202 | Electrical Circuits and Electronics | C | 3 | 0 | 1 | 4 | 5 |
| BIL204 | Digital Design | C | 3 | 0 | 1 | 4 | 5 |
| BIL206 | Principles of Programming Languages | C | 4 | 0 | 0 | 4 | 6 |
| BIL208 | Professional Foreign Language II | C | 3 | 0 | 0 | 3 | 3 |
| BIL210 | Internship I | C | 0 | 2 | 0 | 1 | 2 |
| SOSSEC2 | Social Elective Course | E | 2 | 0 | 0 | 2 | 2 |
| **Total** | | | **20** | **2** | **2** | **23** | **30** |

## 5. Semester

| Course Code | Course Name | C/E | T | P | L | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| BIL301 | Numerical Methods | C | 3 | 0 | 0 | 3 | 4 |
| BIL303 | Computer Organization and Architecture | C | 2 | 1 | 0 | 3 | 5 |
| BIL305 | Internet Programming | C | 3 | 1 | 0 | 4 | 5 |
| BIL307 | Formal Languages and Automata Theory | C | 3 | 0 | 0 | 3 | 5 |
| BIL309 | Software Engineering | C | 3 | 0 | 0 | 3 | 5 |
| BILSEC1 | Technical Elective Course | E | 3 | 0 | 0 | 3 | 4 |
| SOSSEC3 | Social Elective Course | E | 2 | 0 | 0 | 2 | 2 |
| **Total** | | | **19** | **2** | **0** | **21** | **30** |

## 6. Semester

| Course Code | Course Name | C/E | T | P | L | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| BIL302 | Algorithm Analysis | C | 3 | 0 | 0 | 3 | 4 |
| BIL304 | Computer Networks | C | 2 | 1 | 0 | 3 | 4 |
| BIL306 | Operating Systems | C | 3 | 0 | 0 | 3 | 4 |
| BIL308 | Microprocessors and Controllers | C | 2 | 0 | 1 | 3 | 5 |
| BILSEC2 | Technical Elective Course 1 | E | 3 | 0 | 0 | 3 | 4 |
| BILSEC2 | Technical Elective Course 2 | E | 3 | 0 | 0 | 3 | 4 |
| SOSSEC4 | Social Elective Course | E | 2 | 0 | 0 | 2 | 2 |
| BIL310 | Internship II | C | 0 | 2 | 0 | 0 | 3 |
| **Total** | | | **18** | **3** | **1** | **20** | **30** |

| 7. Semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Course Code** | **Course Name** | **C/E** | **T** | **P** | **L** | **Credit** | **ECTS** |
| **BIL401** | Graduation Project | C | 0 | 2 | 0 | 1 | 8 |
| **BIL403** | IT Law | C | 3 | 0 | 0 | 3 | 4 |
| **BILSEC3** | Technical Elective Course 1 | E | 3 | 0 | 0 | 3 | 4 |
| **BILSEC3** | Technical Elective Course 2 | E | 3 | 0 | 0 | 3 | 4 |
| **BILSEC3** | Technical Elective Course 3 | E | 3 | 0 | 0 | 3 | 4 |
| **BILSEC3** | Technical Elective Course 4 | E | 3 | 0 | 0 | 3 | 4 |
| **SOSSEC5** | Social Elective Course | E | 2 | 0 | 0 | 2 | 2 |
| **Total** | | | **17** | **2** | **2** | **18** | **30** |

| 8. Semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Course Code** | **Course Name** | **C/E** | **T** | **P** | **L** | **Credit** | **ECTS** |
| **BIL402** | Adaptation to Engineering | C | 0 | 2 | 0 | 1 | 15 |
| **MUHSEC** | Engineering Elective Course 1 | E | 2 | 0 | 0 | 2 | 5 |
| **MUHSEC** | Engineering Elective Course 2 | E | 2 | 0 | 0 | 2 | 5 |
| **MUHSEC** | Engineering Elective Course 3 | E | 2 | 0 | 0 | 2 | 5 |
| **Total** | | | **6** | **2** | **0** | **7** | **30** |

## Technical Elective Courses

| BILSEC1 (5. Semester) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Course Code** | **Course Name** | **C/E** | **T** | **P** | **L** | **Credit** | **ECTS** |
| **BIL311** | Signals and Systems | E | 3 | 0 | 0 | 3 | 4 |
| **BIL313** | Information Systems | E | 3 | 0 | 0 | 3 | 4 |
| **BIL315** | Data Mining | E | 3 | 0 | 0 | 3 | 4 |
| **BIL317** | Computer Graphics and Animation | E | 3 | 0 | 0 | 3 | 4 |
| **BIL319** | Research Methods and Techniques | E | 3 | 0 | 0 | 3 | 4 |
| **BIL321** | Simulation and Modeling | E | 3 | 0 | 0 | 3 | 4 |
| **BIL323** | Advanced Programming | E | 3 | 0 | 0 | 3 | 4 |
| **BIL325** | Human Computer Interaction | E | 3 | 0 | 0 | 3 | 4 |

| BILSEC2 (6. Semester) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Course Code** | **Course Name** | **C/E** | **T** | **P** | **L** | **Credit** | **ECTS** |
| **BIL312** | Artificial Intelligence | E | 3 | 0 | 0 | 3 | 4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **BIL314** | Data Science and Big Data Analysis | E | 3 | 0 | 0 | 3 | 4 |
| **BIL316** | Game Programming | E | 3 | 0 | 0 | 3 | 4 |
| **BIL318** | Wireless and Cellular Networks | E | 3 | 0 | 0 | 3 | 4 |
| **BIL320** | Deep Learning | E | 3 | 0 | 0 | 3 | 4 |
| **BIL322** | Automated Data Collection Techniques | E | 3 | 0 | 0 | 3 | 4 |
| **BIL324** | Graph Theory | E | 3 | 0 | 0 | 3 | 4 |
| **BIL326** | Cloud Computing | E | 3 | 0 | 0 | 3 | 4 |
| **BIL328** | System Programming | E | 3 | 0 | 0 | 3 | 4 |
| **BIL330** | Industrial Communication Systems | E | 3 | 0 | 0 | 3 | 4 |
| **BIL332** | Robotics | E | 3 | 0 | 0 | 3 | 4 |
| **BIL334** | Artificial Neural Networks | E | 3 | 0 | 0 | 3 | 4 |
| **BIL336** | Model Based Software Development | E | 3 | 0 | 0 | 3 | 4 |
| **BIL338** | Web Services | E | 3 | 0 | 0 | 3 | 4 |
| **BIL340** | Non-Relational Databases | E | 3 | 0 | 0 | 3 | 4 |
| **BIL342** | Electronic Commerce Applications | E | 3 | 0 | 0 | 3 | 4 |
| **BIL344** | Quantum Computing | E | 3 | 0 | 0 | 3 | 4 |
| **BIL346** | Server Based Operating Systems | E | 3 | 0 | 0 | 3 | 4 |
| **BIL348** | Open-Source Operating Systems | E | 3 | 0 | 0 | 3 | 4 |
| **BIL350** | Medical Image Processing | E | 3 | 0 | 0 | 3 | 4 |
| **BIL352** | Introduction to Cryptography | E | 3 | 0 | 0 | 3 | 4 |

**BILSEC3 (7. Semester)**

| Course Code | Course Name | C/E | T | P | L | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| **BIL405** | Distributed Systems and Parallel Programming | E | 3 | 0 | 0 | 3 | 4 |
| **BIL407** | Blockchain and Digital Currencies | E | 3 | 0 | 0 | 3 | 4 |
| **BIL409** | Sensor Networks | E | 3 | 0 | 0 | 3 | 4 |
| **BIL411** | Embedded Systems | E | 3 | 0 | 0 | 3 | 4 |
| **BIL413** | Information Retrieval Systems | E | 3 | 0 | 0 | 3 | 4 |
| **BIL415** | Natural Language Processing | E | 3 | 0 | 0 | 3 | 4 |
| **BIL417** | Text Classification | E | 3 | 0 | 0 | 3 | 4 |
| **BIL419** | Image Processing | E | 3 | 0 | 0 | 3 | 4 |
| **BIL421** | Bioinformatics | E | 3 | 0 | 0 | 3 | 4 |
| **BIL423** | Voice Processing and Recognition | E | 3 | 0 | 0 | 3 | 4 |
| **BIL425** | Social Network Analysis | E | 3 | 0 | 0 | 3 | 4 |
| **BIL427** | Pattern Recognition | E | 3 | 0 | 0 | 3 | 4 |
| **BIL429** | Internet of Things | E | 3 | 0 | 0 | 3 | 4 |
| **BIL431** | Machine Learning | E | 3 | 0 | 0 | 3 | 4 |
| **BIL433** | Forensics | E | 3 | 0 | 0 | 3 | 4 |
| **BIL435** | Mobile Programming | E | 3 | 0 | 0 | 3 | 4 |
| **BIL437** | Computer and Network Security | E | 3 | 0 | 0 | 3 | 4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **BIL439** | Advanced Internet Programming | E | 3 | 0 | 0 | 3 | 4 |
| **BIL441** | Autonomous Systems | E | 3 | 0 | 0 | 3 | 4 |
| **BIL443** | Python Programming | E | 3 | 0 | 0 | 3 | 4 |
| **BIL445** | Java Programming | E | 3 | 0 | 0 | 3 | 4 |
| **BIL447** | C# Programming | E | 3 | 0 | 0 | 3 | 4 |
| **BIL449** | .Net Programming | E | 3 | 0 | 0 | 3 | 4 |
| **BIL451** | Network Programming | E | 3 | 0 | 0 | 3 | 4 |

## Social Elective Courses

**SOSSEC1 (3. Semester)**

| Course Code | Course Name | C/E | T | P | L | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| **SOS201** | Communication | E | 2 | 0 | 0 | 2 | 2 |
| **SOS203** | Environment Management Systems | E | 2 | 0 | 0 | 2 | 2 |
| **SOS205** | Engineering Economy | E | 2 | 0 | 0 | 2 | 2 |
| **SOS207** | Critical Analytic Thinking | E | 2 | 0 | 0 | 2 | 2 |
| **SOS209** | History of Science | E | 2 | 0 | 0 | 2 | 2 |
| **SOS211** | Volunteering Study | E | 2 | 0 | 0 | 2 | 2 |

**SOSSEC2 (4. Semester)**

| Course Code | Course Name | C/E | T | P | L | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| **SOS202** | Public Relations | E | 2 | 0 | 0 | 2 | 2 |
| **SOS204** | First Aid | E | 2 | 0 | 0 | 2 | 2 |
| **SOS206** | Environmental Pollution and Control | E | 2 | 0 | 0 | 2 | 2 |
| **SOS208** | Artificial Intelligence Methods | E | 2 | 0 | 0 | 2 | 2 |
| **SOS210** | Research and Investigation Techniques | E | 2 | 0 | 0 | 2 | 2 |

**SOSSEC3 (5. Semester)**

| Course Code | Course Name | C/E | T | P | L | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| **SOS301** | Patent and Industrial Design | E | 2 | 0 | 0 | 2 | 2 |
| **SOS303** | Environment and Ecology | E | 2 | 0 | 0 | 2 | 2 |
| **SOS305** | History of Art | E | 2 | 0 | 0 | 2 | 2 |
| **SOS307** | Sign Language | E | 2 | 0 | 0 | 2 | 2 |
| **SOS309** | Operations Research | E | 2 | 0 | 0 | 2 | 2 |
| **SOS311** | Technology and Innovation Management | E | 2 | 0 | 0 | 2 | 2 |

| SOSSEC4 (6. Semester) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Course Code** | **Course Name** | **C/E** | **T** | **U** | **L** | **Credit** | **ECTS** |
| **SOS302** | Entrepreneurship | E | 2 | 0 | 0 | 2 | 2 |
| **SOS304** | Akhism and Professional Ethics | E | 2 | 0 | 0 | 2 | 2 |
| **SOS306** | Production Planning | E | 2 | 0 | 0 | 2 | 2 |
| **SOS308** | Ergonomics | E | 2 | 0 | 0 | 2 | 2 |
| **SOS310** | Climate Change and Sustainable Management | E | 2 | 0 | 0 | 2 | 2 |
| **SOS312** | Career Planning and Development | E | 2 | 0 | 0 | 2 | 2 |
| **SOS314** | International Relations | E | 2 | 0 | 0 | 2 | 2 |

| SOSSEC5 (7. Semester) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Course Code** | **Course Name** | **C/E** | **T** | **P** | **L** | **Credit** | **ECTS** |
| **SOS401** | Occupational Law | E | 2 | 0 | 0 | 2 | 2 |
| **SOS403** | Intellectual and Industrial Property | E | 2 | 0 | 0 | 2 | 2 |
| **SOS405** | Energy Saving in Industry | E | 2 | 0 | 0 | 2 | 2 |
| **SOS407** | Business Administration and Management | E | 2 | 0 | 0 | 2 | 2 |
| **SOS409** | Factory Organization and Facility Planning | E | 2 | 0 | 0 | 2 | 2 |
| **SOS411** | Productivity Measurement and Analysis | E | 2 | 0 | 0 | 2 | 2 |
| **SOS413** | Risk Management | E | 2 | 0 | 0 | 2 | 2 |
| **SOS415** | Energy and Environment | E | 2 | 0 | 0 | 2 | 2 |

## Engineering Elective Courses

| MUHSEC (7. Semester) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Course Code** | **Course Name** | **C/E** | **T** | **P** | **L** | **Credit** | **ECTS** |
| **MUH402** | Innovation and Product Development | E | 2 | 0 | 0 | 2 | 5 |
| **MUH404** | Quality Control and Standards | E | 2 | 0 | 0 | 2 | 5 |
| **MUH406** | Productivity Management | E | 2 | 0 | 0 | 2 | 5 |
| **MUH408** | Organizational Behavior for Engineers | E | 2 | 0 | 0 | 2 | 5 |
| **MUH410** | Business Establishment and Government Supports | E | 2 | 0 | 0 | 2 | 5 |

**C:** Compulsory **E:** Elective **T:** Theoretical **P:** Practical **L:** Laboratory **Credit:** National Credit **ECTS:** European Credit Transfer and Accumulation System

## Activities

The Computer Engineering Department organizes Tea Talk events annually, where informative seminars on new research topics are held. These Tea Talk seminars are open to all faculty and students. The goal is to increase students' interest in academia and to create a scientific discussion environment. In addition, Career Talks are held regularly every year, where experts in the field give seminars. The aim of these talks is to inform students about job opportunities and market conditions.

# FACULTY OF ENGINEERING

# DEPARTMENT OF COMPUTER ENGINEERING


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# ADIYAMAN UNIVERSITY
# ENGINEERING FACULTY
# DEPARTMENT OF
# ENVIRONMENTAL ENGINEERING

## DESCRIPTION BOOKLET

2025-2026

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## Department of Environmental Engineering

The Adyaman University Environmental Engineering Department was established in 2011 and started admitting students for the first time in the 2012-2013 academic year.

## Head of Department

Prof. Dr. Yavuz DEMİRCİ

## Vice Head of Department

Assist. Prof. Dr. Şeyma AKKURT

## Academic Staff

Prof. Dr. Özgür ÖZDEMİR

Prof. Dr. Yavuz DEMİRCİ

Prof. Dr. Harun TÜRKMENLER

Assoc. Prof. Dr. Fatih TUFANER

Assoc. Prof. Dr. Aysel ALKAN UÇKUN

Assoc. Prof. Dr. Müslüm ALTUN

Assist. Prof. Dr. Turgay DERE

Assist. Prof. Dr. Kâmil B. VARINCA

Assist. Prof. Dr. Şeyma AKKURT

## Department Secretary

Zübeyde GÜNEŞ

- **Mission & Vision**

## Mission

To raise people with the skills and equipment required to recognize and solve environmental issues in the 21st century with engineering methods and to perform quality research in the field of environmental engineering.

## Vision

To be a department that plays an active role in the sustainable development of our country, renews itself in line with the needs for the solution of universal and national environmental problems, and develops and implements contemporary education and research strategies in this regard.

## Importance of Departments of Environmental Engineering

In the world, water, wastewater, industrial wastewater treatment, solid waste management, and air pollution control have gained importance, as well as water supply, wastewater collection, and disposal. With the rapid increase in the population of Turkey, the increase in the rate of migration to big cities has also increased the need for environmental engineers. For this reason, the need for engineers who know, understand, and interpret environmental problems shows the importance of the Environmental Engineering Department.

## Why Department of Environmental Engineering?

Environmental engineering is an interdisciplinary branch of engineering that finds solutions to environmental problems. Environmental engineers develop engineering approaches to prevent pollution or clean up contaminated areas to protect the natural environment (air, water, and soil) and human health. It develops technologies for the best use of natural resources for a sustainable environment.

## Job Oportunities for Our Graduate Students

Our graduates can work in different fields, such as industrial facilities, public institutions, public health institutions, research and development centers and laboratories, as well as consultancy firms. Working areas of environmental engineering include water and wastewater treatment, air pollution control, solid waste disposal, soil pollution, and noise pollution. Below are some organizations where our graduates can work.

- The Ministry of Environment, Forestry, and Water Affairs and its affiliates
- The Ministry of Environment and Urbanization and its affiliates
- The Ministry of Health and its affiliates
- The State Planning Organization
- The State Water Works
- Iller Bank
- Laboratories for Public Health

- Universities
- Local Authorities
- Treatment companies
- Industry associations
- Environmental Consulting Firms
- Engineering and Project Firms

## Highest and Lowest Placement Scores According to Central Placement

Our department admits students with LYS (MF-4 score type) and DGS exams. However, our department has been closed to student admissions since the 2018–2019 academic year. The Master's Program was opened in our department in the 2022–2023 Fall Semester, and postgraduate education has started to be offered again.

# Course Catalogue

| 1. Class | | | | | |
|---|---|---|---|---|---|
| **First Semester** | | | | | |
| Course Code | Course Name | ECTS | WCH T+A/C | C/E | La. |
| CEV101 | Introduction to Environmental Engineering | 4 | 2+1/3 | C | T |
| CEV103 | Mathematics 1 | 4 | 2+2/3 | C | T |
| CEV105 | Physics 1 | 4 | 2+2/3 | C | T |
| CEV107 | Chemistry 1 | 4 | 2+2/3 | C | T |
| CEV109 | Technical Drawing and Descriptive Geometry | 4 | 2+2/3 | C | T |
| TD101 | Turkish I | 2 | 2+0/2 | C | T |
| YD101 | English I | 3 | 2+0/2 | C | T |
| AİİT101 | Ataturk's Principles and Turkish Revolution 1 | 2 | 2+0/2 | C | T |
| CEV1.. | University Elective Course 1 | 3 | 2+0/2 | E | T |
| | Fall Semester Total: | **30** | 18+9/ **23** | | |
| **Second Semester** | | | | | |
| Course Code | Course Name | ECTS | WCH T+A/C | C/E | La. |
| CEV102 | Environmental Microbiology 1 | 4 | 2+2/3 | C | T |
| CEV104 | Mathematics 2 | 4 | 2+2/3 | C | T |
| CEV106 | Physics 2 | 4 | 2+2/3 | C | T |
| CEV108 | Chemistry 2 | 4 | 2+2/3 | C | T |
| TD102 | Turkish II | 2 | 2+0/2 | C | T |
| YD102 | English II | 3 | 2+0/2 | C | T |
| AİİT102 | Ataturk's Principles and Turkish Revolution II | 2 | 2+0/2 | C | T |
| ENF102 | Introduction to Information Technologies and Applications | 4 | 2+0/2 | C | T |
| CEV1.. | University Elective Course 2 | 3 | 2+0/2 | E | T |
| | Spring Semester Total : | **30** | 18+8/ **22** | | |
| | YEAR TOTAL :: | **60** | | | |
| **2. Class** | | | | | |
| **Third Semester** | | | | | |
| Course Code | Course Name | ECTS | WCH T+A/C | C/E | La. |
| CEV201 | Environmental Chemistry 1 | 4 | 2+2/3 | C | T |
| CEV203 | Environmental Microbiology 2 | 4 | 2+2/3 | C | T |
| CEV219 | Materials in Environmental Engineering | 3 | 2+0/2 | C | T |
| CEV207 | Fluid Mechanics and Hydraulics | 4 | 2+2/3 | C | T |
| CEV209 | Computer Programming and Design | 3 | 2+2/3 | C | T |
| CEV215 | Professional English 1 | 3 | 2+0/2 | C | T |
| CEV2.. | University Elective Course 3 | 3 | 2+0/2 | E | T |
| CEV2.. | Faculty Elective Course 1 | 3 | 2+2/3 | E | T |
| CEV2.. | Vocational Elective Course 1 | 3 | 2+0/2 | E | T |
| | Fall Semester Total: | **30** | 18+10 /**23** | | |
| **Fourth Semester** | | | | | |
| Course Code | Course Name | ECTS | WCH T+A/C | C/E | La. |
| CEV202 | Environmental Chemistry 2 | 4 | 2+2/3 | C | T |
| CEV204 | Environmental Engineering Ecology | 3 | 2+0/2 | C | T |
| CEV220 | Static and Strength of Materials | 4 | 2+2/3 | C | T |

| | | | | | |
|---|---|---|---|---|---|
| CEV208 | Physical Unit Operations in Environmental Engineering | 4 | 2+2/3 | C | T |
| CEV216 | Professional English 2 | 3 | 2+0/2 | C | T |
| CEV210 | Computer Applications in Environmental Engineering | 3 | 2+2/3 | C | T |
| CEV2.. | University Elective Course 4 | 3 | 2+0/2 | E | T |
| CEV2.. | Faculty Elective Course 2 | 3 | 2+2/3 | E | T |
| CEV2.. | Vocational Elective Course 2 | 3 | 2+0/2 | E | T |
| | Spring Semester Total: | **30** | 18+10 /**23** | | |
| | YEAR TOTAL: | **60** | | | |

**3. Class**

**Fifth Semester**

| Course Code | Course Name | ECTS | WCH T+A/C | C/E | La. |
|---|---|---|---|---|---|
| CEV301 | Chemical Unit Operations in Environmental Engineering | 4 | 2+2/3 | C | T |
| CEV303 | Solid Waste Management | 3 | 2+1/3 | C | T |
| CEV305 | Water Supply | 4 | 2+2/3 | C | T |
| CEV307 | Water Quality and Management | 3 | 2+1/3 | C | T |
| CEV311 | Air Pollution | 3 | 2+1/3 | C | T |
| CEV343 | Reuse of Wastes | 3 | 2+0/2 | C | T |
| CEV3.. | University Elective Course 5 | 4 | 2+2/3 | E | T |
| CEV3.. | Faculty Elective Course 3 | 3 | 2+0/2 | E | T |
| CEV3.. | Vocational Elective Course 3 | 3 | 2+0/2 | E | T |
| | Fall Semester Total: | **30** | 18+9/**23** | | |

**Sixth Semester**

| Course Code | Course Name | ECTS | WCH T+A/C | C/E | La. |
|---|---|---|---|---|---|
| CEV302 | Biological Unit Operations in Environmental Engineering | 4 | 2+1/3 | C | T |
| CEV304 | Hazardous Waste Management | 3 | 2+1/3 | C | T |
| CEV306 | Sewerage | 3 | 2+2/3 | C | T |
| CEV308 | Water Treatment and Plant Design | 4 | 2+2/3 | C | T |
| CEV312 | Air Pollution Control | 3 | 2+1/3 | C | T |
| CEV344 | Industrial Microbiology | 3 | 2+0/1 | C | T |
| CEV3.. | University Elective Course 6 | 4 | 2+0/2 | E | T |
| CEV3.. | Faculty Elective Course 4 | 3 | 2+0/2 | E | T |
| CEV3.. | Vocational Elective Course 4 | 3 | 2+0/2 | E | T |
| | Spring Semester Total: | **30** | 18+7/**22** | | |
| | YEAR TOTAL: | **60** | | | |

**4. Class**

**Seventh Semester**

| Course Code | Course Name | ECTS | WCH T+A/C | C/E | La. |
|---|---|---|---|---|---|
| CEV401 | Industrial Pollution Control | 3 | 2+1/3 | C | T |
| CEV403 | Wastewater Treatment and Plant Design | 4 | 2+2/3 | C | T |
| CEV441 | Environmental Engineering Practices | 2 | 0+2/1 | C | T |
| CEV447 | Senior Design Project | 3 | 0+2/1 | C | T |
| CEV4.. | Faculty Elective Course 5 | 3 | 2+0/2 | E | T |
| CEV4.. | Vocational Elective Course 5 | 3 | 2+0/2 | E | T |
| CEV4.. | Vocational Elective Course 6 | 3 | 2+0/2 | E | T |
| CEV4.. | Vocational Elective Course 7 | 3 | 2+0/2 | E | T |
| CEV4.. | Vocational Elective Course 8 | 3 | 2+0/2 | E | T |

| | | | | | |
|---|---|---|---|---|---|
| CEV4.. | Vocational Elective Course 9 | 3 | 2+0/2 | E | T |
| | Fall Semester Total:: | **30** | 16+7/**20** | | |
| **Eight Semester** | | | | | |
| Course Code | Course Name | ECTS | WCH T+A/C | C/E | La. |
| CEV404 | Engineering Adaptation | 15 | 0+2/0 | C | T |
| MUHSEC 8 | Engineering Elective Course (3 Courses Will Be Elected) | 15 | 2+0/0 | E | T |
| Total: | Spring Semester | **30** | 6+2/0 | | |
| | YEAR TOTAL: | **60** | | | |
| | | | | | |
| | ECTS TOTAL :: | **240** | | | |

* For elective courses determined by the Rectorate T+A/C → 2+0/2

| | | | | | |
|---|---|---|---|---|---|
| **Elective Cources** | | | | | |
| | | | | | |
| **1. Class** | | | | | |
| **First Semester** | | | | | |
| University Elective Course 1 | | | | | |
| Course Code | Course Name | ECTS | WCH | C/E | La. |
| CEV111 | History of Science | 3 | 2+0/2 | E | T |
| CEV113 | First Aid | 3 | 2+0/2 | E | T |
| | | | | | |
| **Second Semester** | | | | | |
| University Elective Course 2 | | | | | |
| CEV110 | Critical Analytical Thinking | 3 | 2+0/2 | E | T |
| CEV112 | Communication | 3 | 2+0/2 | E | T |
| | | | | | |
| **2. Class** | | | | | |
| **Third Semester** | | | | | |
| University Elective Course 3 | | | | | |
| Course Code | Course Name | ECTS | WCH | C/E | La. |
| CEV221 | Sign Language | 3 | 2+0/2 | E | T |
| Faculty Elective Course 1 | | | | | |
| CEV223 | Soil Mechanics and Basic Construction | 3 | 2+2/3 | E | T |
| CEV225 | Differential Equations | 3 | 2+2/3 | E | T |
| Vocational Elective Course 1 | | | | | |
| CEV211 | Numerical Analysis | 3 | 2+0/2 | E | T |
| CEV217 | Reaction Kinetics | 3 | 2+0/2 | E | T |
| | | | | | |
| **Fourth Semester** | | | | | |
| University Elective Course 4 | | | | | |
| CEV222 | Scientific Research Methods | 3 | 2+0/2 | E | T |
| Faculty Elective Course 2 | | | | | |
| CEV224 | Surveying Techniques | 3 | 2+2/3 | E | T |
| Vocational Elective Course 2 | | | | | |
| CEV212 | Statistics for Engineers | 3 | 2+0/2 | E | T |
| CEV218 | Thermodynamics | 3 | 2+0/2 | E | T |
| | | | | | |
| **3. Class** | | | | | |
| **Fifth Semester** | | | | | |
| University Elective Course 5 | | | | | |

| Course Code | Course Name | ECTS | WCH | C/E | La. |
|---|---|---|---|---|---|
| CEV 337 | Entrepreneurship | 4 | 2+2/3 | E | T |
| | Faculty Elective Course 3 | | | | |
| CEV339 | Quality Management Systems | 3 | 2+0/2 | E | T |
| CEV341 | Occupational Health and Safety | 3 | 2+0/2 | E | T |
| | Vocational Elective Course 3 | | | | |
| CEV313 | Environmental Laws | 3 | 2+0/2 | E | T |
| CEV315 | Environmental Sanitation | 3 | 2+0/2 | E | T |
| CEV317 | Soil Pollution and Control | 3 | 2+0/2 | E | T |
| CEV319 | Hydrology | 3 | 2+0/2 | E | T |
| CEV323 | Design in Environmental Engineering | 3 | 2+0/2 | E | T |
| CEV327 | Ecotoxicology | 3 | 2+0/2 | E | T |
| CEV329 | Noise Pollution and Control | 3 | 2+0/2 | E | T |
| CEV331 | Environmental Biotechnology | 3 | 2+0/2 | E | T |
| CEV333 | Waste Disposal Methods | 3 | 2+0/2 | E | T |
| CEV335 | Geographic Information Systems | 3 | 2+0/2 | E | T |
| **Sixth Semester** | | | | | |
| | University Elective Course 6 | | | | |
| CEV338 | Business Law | 4 | 2+0/2 | E | T |
| AHL302 | Ahi Community and Professional Ethics | 4 | 2+0/2 | E | T |
| | Faculty Elective Course 4 | | | | |
| CEV340 | Environmental Management Systems | 3 | 2+0/2 | E | T |
| CEV342 | Technology and Innovation Management | 3 | 2+0/2 | E | T |
| | Vocational Elective Course 4 | | | | |
| CEV314 | Environmental Economics | 3 | 2+0/2 | E | T |
| CEV316 | Water Pollution and Control | 3 | 2+0/2 | E | T |
| CEV318 | Integrated Watershed Management | 3 | 2+0/2 | E | T |
| CEV322 | Air Pollution Modeling | 3 | 2+0/2 | E | T |
| CEV324 | Climate Change | 3 | 2+0/2 | E | T |
| CEV328 | Groundwater Pollution and Control | 3 | 2+0/2 | E | T |
| CEV330 | Natural Treatment Systems | 3 | 2+0/2 | E | T |
| CEV332 | Biomonitoring | 3 | 2+0/2 | E | T |
| CEV334 | Planning of Environmental Resources | 3 | 2+0/2 | E | T |
| CEV336 | Renewable Energy Resources | 3 | 2+0/2 | E | T |
| | **4. Class** | | | | |
| **Seventh Semester** | | | | | |
| | Faculty Elective Course 5 | | | | |
| Course Code | Course Name | ECTS | WCH | C/E | La. |
| CEV443 | Risk Management | 3 | 2+0/2 | E | T |
| CEV445 | Project Management | 3 | 2+0/2 | E | T |
| | Vocational Elective Course 5-9 | | | | |
| CEV 407 | Environmental Impact Assessment | 3 | 2+0/2 | E | T |
| CEV 411 | Landfill Design | 3 | 2+0/2 | E | T |
| CEV 413 | Equipment and Operation of Treatment Plants | 3 | 2+0/2 | E | T |
| CEV 415 | Membrane Applications | 3 | 2+0/2 | E | T |
| CEV 417 | Biogas Production Technologies | 3 | 2+0/2 | E | T |
| CEV 421 | Operation of Solid Waste Plants | 3 | 2+0/2 | E | T |
| CEV 423 | Advanced Wastewater Treatment | 3 | 2+0/2 | E | T |
| CEV 425 | Pumping Plant and Transmission Lines | 3 | 2+0/2 | E | T |
| CEV 427 | Thermal Methods in Solid Waste Disposal | 3 | 2+0/2 | E | T |
| CEV 431 | Control of Treatment Sludges | 3 | 2+0/2 | E | T |
| CEV 433 | Anaerobic Treatment Technologies | 3 | 2+0/2 | E | T |
| CEV 435 | Environmental Modeling | 3 | 2+0/2 | E | T |
| CEV 437 | Biological Methods in Solid Waste Disposal | 3 | 2+0/2 | E | T |

| Eighth Semester | | | | | |
|---|---|---|---|---|---|
| MUH 402 | Innovation and Product Development | 5 | 2+0/0 | E | T |
| MUH 404 | Quality Control and Standards | 5 | 2+0/0 | E | T |
| MUH 406 | Productivity Management | 5 | 2+0/0 | E | T |
| MUH 408 | Organizational Behavior for Engineers | 5 | 2+0/0 | E | T |
| MUH 410 | Business Establishment and State Support | 5 | 2+0/0 | E | T |

**WCH:** Weekly Course Hours

**T+U/K:** Theorical + Application/Credit

**ECTS:** European Credit Transfer System

**C/E:** Compulsory/Elective

**La.**: Language (T: Turkish)

# Graduate Course Catalog

| 1. Semester | | | | | | |
|---|---|---|---|---|---|---|
| **Course Code** | **Course Name** | **T** | **U** | **National credit** | **ECTS** | **C/E** |
| BAT 550 | Scientific Research Techniques And Publication Ethics | 3 | 0 | 3 | 6 | C |
| CEMYU 501 | Directed Field Studies I | 4 | 0 | 0 | 6 | C |
| | Elective Course 1 | 3 | 0 | 3 | 6 | E |
| | Elective Course 2 | 3 | 0 | 3 | 6 | E |
| | Elective Course 3 | 3 | 0 | 3 | 6 | E |
| | | | **Total** | **12** | **30** | |
| **2. Semester** | | | | | | |
| **Course Code** | **Course Name** | **T** | **U** | **National credit** | **ECTS** | **C/E** |
| CEMYU 502 | Directed Field Studies II | 4 | 0 | 0 | 6 | C |
| CEMYS 502 | Master Seminar | 0 | 2 | 0 | 6 | C |
| | Seçmeli Ders 4 | 3 | 0 | 3 | 6 | E |
| | Seçmeli Ders 5 | 3 | 0 | 3 | 6 | E |
| | Seçmeli Ders 6 | 3 | 0 | 3 | 6 | E |
| | | | **Total** | **9** | **30** | |

| 3. Semester | | | | | | |
|---|---|---|---|---|---|---|
| **Course Code** | **Course Name** | **T** | **U** | **National credit** | **ECTS** | **C/E** |
| CEMYU 503 | Directed Field Studies III | 4 | 0 | 0 | 6 | C |
| CEMYT 503 | Thesis Studies I | 0 | 0 | 0 | 24 | C |
| | | | **Total** | **0** | **30** | |

| 4. Semester | | | | | | |
|---|---|---|---|---|---|---|
| **Course Code** | **Course Name** | **T** | **U** | **National Credit** | **ECTS** | **C/E** |
| CEMYU 504 | Directed Field Studies IV | 4 | 0 | 0 | 6 | C |
| CEMYT 504 | Thesis Studies II | 0 | 0 | 0 | 24 | C |
| | | | **Total** | **0** | **30** | |

| General | | |
|---|---|---|
| **Semester** | **Course Hour (T/U/K)** | **ECTS** |
| 1. Semester | 16/0/12 | 30 |
| 2. Semester | 13/2/9 | 30 |
| 3. Semester | 4/0/0 | 30 |
| 4. Semester | 4/0/0 | 30 |
| **Total** | **37/2/21** | **120** |

## 1. Semester Elective Courses

| Course Code | Course Name | T | U | K | ECTS |
|---|---|---|---|---|---|
| CEM 501 | Advanced Environmental Engineering Microbiology | 3 | 0 | 3 | 6 |
| CEM 503 | Environmental Biotechnology-I | 3 | 0 | 3 | 6 |
| CEM 505 | Advanced Wastewater Treatment Technologies | 3 | 0 | 3 | 6 |
| CEM 507 | Environmental Biophysics | 3 | 0 | 3 | 6 |
| CEM 509 | Drought and Water Management | 3 | 0 | 3 | 6 |
| CEM 511 | Computer Aided Drawing for Scientific Studies | 3 | 0 | 3 | 6 |
| CEM 513 | Integrated Waste Management and Zero Waste | 3 | 0 | 3 | 6 |
| CEM 515 | Geographic Information System (GIS) in Environmental Monitoring and Assessment | 3 | 0 | 3 | 6 |
| CEM 517 | Adsorption and Ion Exchange in Environmental Engineering | 3 | 0 | 3 | 6 |
| CEM 519 | Soil Pollution and Control | 3 | 0 | 3 | 6 |
| CEM 521 | Global Climate Change | 3 | 0 | 3 | 6 |
| CEM 523 | Waste Management in Industries | 3 | 0 | 3 | 6 |
| CEM 525 | Radioactive Contamination | 3 | 0 | 3 | 6 |
| CEM 527 | Energy Efficiency in Wastewater Treatment | 3 | 0 | 3 | 6 |
| CEM 529 | Natural Systems in Wastewater Treatment | 3 | 0 | 3 | 6 |
| CEM 531 | Industrial Air Pollutants | 3 | 0 | 3 | 6 |
| CEM 533 | Particle Control in Air Pollution | 3 | 0 | 3 | 6 |
| CEM 535 | Flue Gas Measurement and Analysis | 3 | 0 | 3 | 6 |
| CEM 537 | Filtration | 3 | 0 | 3 | 6 |
| CEM 539 | Air Pollution Modeling | 3 | 0 | 3 | 6 |
| CEM 541 | Fuzzy Logic Modelling in Engineering | 3 | 0 | 3 | 6 |
| CEM 543 | Wastewater Treatment Technologies | 3 | 0 | 3 | 6 |
| CEM 545 | Novel Materials for Environmental Applications | 3 | 0 | 3 | 6 |
| CEM 547 | Life Cycle Analysis Principles | 3 | 0 | 3 | 6 |

## 2. Semester Elective Courses

| Course Code | Course Name | T | U | K | ECTS |
|---|---|---|---|---|---|
| CEM 504 | Biochemical Processes in Wastewater Treatment Systems | 3 | 0 | 3 | 6 |
| CEM 506 | Water Chemistry | 3 | 0 | 3 | 6 |
| CEM 508 | Energy Production from Waste and Biomass | 3 | 0 | 3 | 6 |
| CEM 510 | Biological Nitrogen and Phosphorus Removal from Wastewater | 3 | 0 | 3 | 6 |
| CEM 512 | Physico-Chemical Processes of Wastewater Treatment Systems | 3 | 0 | 3 | 6 |
| CEM 514 | Advanced Oxidation Processes | 3 | 0 | 3 | 6 |
| CEM 516 | Statistics in Environmental Engineering | 3 | 0 | 3 | 6 |
| CEM 518 | Environmental Applications of Remote Sensing | 3 | 0 | 3 | 6 |
| CEM 520 | Assessment and Management of Environmental Noise | 3 | 0 | 3 | 6 |
| CEM 522 | Recycling and Reuse of Wastewater | 3 | 0 | 3 | 6 |
| CEM 524 | Eutrophication | 3 | 0 | 3 | 6 |

| | | | | | |
|---|---|---|---|---|---|
| CEM 526 | Membrane Processes for Wastewater Treatment | **3** | **0** | **3** | **6** |
| CEM 528 | Environmental Micropollutants | **3** | **0** | **3** | **6** |
| CEM 530 | Gaining Matter and Energy from Solid Waste | **3** | **0** | **3** | **6** |
| CEM 532 | Environmental Biotechnology-II | **3** | **0** | **3** | **6** |
| CEM 534 | Emission-Immission Sampling Systems of Industrial Air Pollutants | **3** | **0** | **3** | **6** |
| CEM 536 | Management of Special Wastes | **3** | **0** | **3** | **6** |
| CEM 538 | Greenhouse Gas Emissions and Monitoring | **3** | **0** | **3** | **6** |
| CEM 540 | Zero Waste Approaches and Sustainable Resource Recovery | **3** | **0** | **3** | **6** |
| CEM 542 | Applications of Prediction Models in Environmental Engineering | **3** | **0** | **3** | **6** |
| CEM 544 | Advanced Techniques in Sedimentation Pools | **3** | **0** | **3** | **6** |
| CEM 546 | Waste Gas Control | **3** | **0** | **3** | **6** |
| CEM 548 | Dispersion Models of Air Pollution | **3** | **0** | **3** | **6** |
| CEM 550 | Agro-industrial Waste Valorization | **3** | **0** | **3** | **6** |
| CEM 552 | Water and Carbon Footprint in the Context of Environmental Sustainability | **3** | **0** | **3** | **6** |
| CEM 554 | Losses in Water Networks and Prevention Methods | **3** | **0** | **3** | **6** |

## Activities

The workshop on the subject of "biogas," which has been emphasized and researched in recent years as a renewable energy source by our department, was held at the Adiyaman University Central Research Laboratory.

Another scientific event organized by our department was the Environmental Engineering Education and Research Workshop in Turkey in 2018. The current situation and future of education in Environmental Engineering Departments in Turkey were discussed, along with suggestions.

The latest scientific event organized with the contributions of our department is the 1st Adiyaman Water Workshop, in cooperation with Adiyaman University and Adiyaman Municipality, on Tuesday, March 22, 2022, at the Adiyaman University Rectorate conference hall. In the workshop, which was held in three different sessions, the importance of water resources and water pollution issues were discussed through oral presentations.

Classrooms;

Laboratories;

Some of the devices in our laboratory;

- Atomic Absorption Spectrophotometry (AAS)
- Total Organic Carbon Analyzer (TOC)
- UV Spectrophotometer
- Incubator
- Distilled Water Device
- COD Heater Unit
- Oven
- Ash Furnace
- Jar Test Unit
- pH Meter
- Magnetic Stirrer
- Precision scales
- Microscope etc.

# ENGINEERING FACULTY

# ENVIRONMENTAL ENGINEERING DEPARTMENT


**Address**

Adıyaman University (ADYU)

Engıneerıng Faculty

Envıronmental Engıneerıng Department
A Block Floor: 1
02040, City center / ADIYAMAN
**Telephone:** +90 (416) 223 38 00-01
**Fax:** +90 (416) 223 38 43
**Internet:** https://muhendislik.adiyaman.edu.tr/tr/bolumler/cevre-muhendisligi-bolumu

# ADIYAMAN UNIVERSITY
# FACULTY OF ENGINEERING
# DEPARTMENT OF ELECTRICAL-ELECTRONICS ENGINEERING

## PROMOTIONAL BOOKLET

2025-2026

## CONTENTS


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## Department

Adıyaman University Faculty of Engineering was established by the Council of Ministers' Decision No. 2011/1595 dated 04.04.2011, which was published in the Official Gazette on 15.04.2011. The Department of Electrical and Electronics Engineering within the Faculty of Engineering has an academic staff consisting of 7 faculty members (1 Professor, 2 Associate Professors, 1 Assistant Professor, 1 Visiting Assistant Professor), 1 Research Assistant with a Ph.D., and 1 Research Assistant.

## Head of Department

Assoc. Prof. Dr. Abdurrahman ÖZBEYAZ

(aozbeyaz@adiyaman.edu.tr)

## Academic Staff

### Division of Control and Command Systems

Prof. Dr. Seydi Vakkas ÜSTÜN

Res. Asst. Dr. Hazin İNCİ

Res. Asst. Mustafa KAYA

### Division of Electrical Machines

Assoc. Prof. Dr. Mehmet BÜYÜK

### Division of Telecommunications

Assoc. Prof. Dr. Abdurrahman ÖZBEYAZ

### Division of Electrical Installations

Asst. Prof. Dr. Faruk KÜRKER

**Visiting Faculty Member**

Asst. Prof. Dr. M. İsmail GÜRSOY

**Department Secretary**

Fatma ÇELEBİ (ftekkanat@adiyaman.edu.tr)

## MISSION & VISION

### Mission

To educate well-qualified Electrical and Electronics Engineers who possess the knowledge and skills required by the era, who can compete at the international level, develop solutions to societal problems, are sensitive to universal values, uphold professional ethics, and have strong problem-solving abilities. Additionally, to conduct research that contributes to the advancement of technology.

## Vision

To become a respected Department of Electrical and Electronics Engineering that is recognized both nationally and internationally through its high-quality education, research, and practical applications, and that plays a leading role in developing the technologies of the future.

## IMPORTANCE OF OUR DEPARTMENT OF ELECTRICAL-ELECTRONICS ENGINEERING

The domestic and national initiatives that our country has undertaken in the field of technology in recent years have been a source of great excitement for all of us. We proudly witness the achievements of our nation's brilliant minds. As the Department of Electrical and Electronics Engineering, we have updated our curriculum and infrastructure in line with the renewed national vision, aiming to contribute to this movement and to better serve you, our esteemed youth.

Dear young people, the guarantors of our future;

To help you become individuals who generate added value for our country, we have established a strong and modern laboratory infrastructure tailored to current needs. We have also assembled a highly qualified academic staff committed to your success.

We would be honored to see you among us on this journey we have embarked on for our nation. Since the 2015–2016 academic year, we have been supporting the National Technology Initiative with over 200 graduates and approximately 170 current students. We warmly invite you to become a part of our family and to consider the Department of Electrical and Electronics Engineering at Adıyaman University Faculty of Engineering in your university preferences.

Wishing you a future filled with health and technology.

## JOB OPPORTUNITIES OF GRADUATES

The electrical and electronics sector encompasses a broad spectrum of technologies—including energy, electronics, communications, information technology, automotive, and the defense industry—and serves as a driving force for nearly all industries. There will always be a demand for well-equipped electrical and electronics engineers who can understand, apply, supervise, and further develop these technologies.

The Department of Electrical and Electronics Engineering aims to meet the growing need for engineers in both the public and private sectors. In the final year of the program, students have the

opportunity to specialize in their areas of interest by choosing from a variety of elective courses.

Graduates of the department can pursue careers in a wide range of fields based on their interests, specializations, and individual competencies.

## HIGHEST AND LOWEST PLACEMENT SCORES BY CENTRAL PLACEMENT

According to the results of the Higher Education Institutions Exam (YKS) placement announced by the Student Selection and Placement Center (ÖSYM), the lowest score for admission to our department was 298.85 in 2022. In 2023, the lowest placement score was 308.33, and in 2024 it was 290.52. The department continues its educational activities with an annual admission quota of 15 students and a total of approximately 170 enrolled students.

## GRADUATE STUDY OPPORTUNITY

The Graduate Program in Electrical and Electronics Engineering was launched as of September 2024. The program offers opportunities for advanced research and academic studies in various fields of Electrical and Electronics Engineering, including digital signal processing, artificial intelligence, power systems, and control and automation.

Student admissions to the program will begin in August 2025.

# COURSE CATALOG

| 1. Year | | | | | |
|---|---|---|---|---|---|
| Code | Title | ECTS | WCH T+L/C | M/S | Lang |
| **1. Semester** | | | | | |
| MAT101 | Mathematics I | 5 | 3+1/4 | Z | T |
| FİZ101 | Physics I | 4 | 2+2/3 | Z | T |
| KİM101 | Chemistry | 4 | 2+2/3 | Z | T |
| AİİT101 | Principles of Atatürk and History of Turkish Revolution I | 2 | 2+0/2 | Z | T |
| TD101 | Turkish Language I | 2 | 2+0/2 | Z | T |
| YD101 | Foreign Language I | 3 | 2+0/2 | Z | T |
| EEM109 | Algorithms and Computer Programming I | 5 | 2+2/3 | Z | |
| EEM103 | Introduction Electrical and Electronics Engineering | 5 | 2+2/3 | Z | T |
| | Semester Total : | **30** | 17+9/**22** | | |
| **2. Semester** | | | | | |
| MAT102 | Mathematics II | 5 | 3+1/4 | Z | T |
| FİZ102 | Physics II | 4 | 2+2/3 | Z | T |
| MAT104 | Linear Algebra | 3 | 2+0/2 | Z | T |
| AİİT102 | Principles of Atatürk and History of Turkish Revolution II | 2 | 2+0/2 | Z | T |
| TD102 | Turkish Language II | 2 | 2+0/2 | Z | T |
| YD102 | Foreign Language I | 3 | 2+0/2 | Z | T |
| EEM 112 | Algorithms and Computer Programming II | 6 | 2+2/3 | Z | T |
| EEM 114 | Computer Aided Design | 5 | 2+1/3 | Z | T |
| | Semester Total: | **30** | 17+6/**21** | | |
| | Year Total : | **60** | | | |

| 2. Year | | | | | |
|---|---|---|---|---|---|
| Code | Title | ECTS | WCH T+L/C | M/ S | La ng |
| **3. Semester** | | | | | |
| MUH201 | Statistics for Engineers | 3 | 2+0/2 | Z | T |
| EEM201 | Circuit Analysis I | 6 | 4+0/4 | Z | T |
| EEM203 | Introduction to Logic Circuits | 4 | 3+0/3 | Z | T |
| EEM205 | Material Knowledge for Electrical Engineering | 3 | 3+0/3 | Z | T |
| EEM215 | Complex Analysis | 4 | 3+0/3 | Z | T |
| EEM209 | Circuit Analysis Laboratory I | 3 | 0+2/1 | Z | T |
| EEM211 | Logic Circuit Laboratory | 2 | 0+2/1 | Z | T |
| EEM213 | Technical English I | 3 | 3+0/3 | Z | T |
| SOSSEC1 | Social Elective Course 1 | 2 | 2+0/2 | S | T |
| | Semester Total : | **30** | 20+4/**19** | | |
| **4. Semester** | | | | | |
| EEM200 | Internship 1 | 0 | 0+0/0 | Z | T |
| MAT202 | Differential Equations | 4 | 3+0/3 | Z | T |
| MUH204 | Occupational Health and Safety | 3 | 2+0/2 | Z | T |
| EEM212 | Circuit Analysis II | 5 | 4+0/4 | Z | T |
| EEM216 | Probability Theory For Engineering | 3 | 3+0/3 | Z | T |
| EEM218 | Electromagnetic Field Theory | 4 | 4+0/4 | Z | T |
| EEM210 | Circuit Analysis Laboratory II | 2 | 0+2/1 | Z | T |
| EEM214 | Technical English II | 3 | 3+0/3 | Z | T |
| EEM220 | Numerical Analysis in Electrical and Electronics Engineering | 4 | 3+1/4 | Z | T |
| SOSSEC2 | Social Elective Course 2 | 2 | 2+0/2 | S | T |
| | Semester Total : | **30** | 28+3/**26** | | |
| | YIL TOPLAMI : | **60** | | | |

| 3. Year | | | | | |
|---|---|---|---|---|---|
| Code | Title | ECTS | WCH T+L/C | M/ S | La ng |
| **5. Semester** | | | | | |
| EEM301 | Analog Electronics | 5 | 3+0/3 | Z | T |
| EEM303 | Electrical Machines I | 4 | 3+0/3 | Z | T |
| EEM315 | Signals And Systems | 3 | 3+0/3 | Z | T |
| EEM317 | Introduction To Microprocessors | 4 | 3+2/4 | Z | T |
| EEM319 | Electromagnetic Wave Theory | 4 | 4+0/4 | Z | T |
| EEM311 | Analog Electronics Labratory | 2 | 0+2/1 | Z | T |
| EEM313 | Electrical Machines Labratory I | 2 | 0+2/1 | Z | T |
| EEMSEC1 | VOCATIONAL ELECTIVE COURSE (1 COURSE) | 4 | 2+1/3 | S | T |
| SOSSEC3 | Social Elective Courses 3 | 2 | 2+0/2 | S | T |
| | Semester Total : | **30** | 20+7/**24** | | |
| **6. Semester** | | | | | |
| EEM300 | Intership 2 | 0 | 0+0/0 | Z | T |
| EEM302 | Digital Electronics | 4 | 3+0/3 | Z | T |
| EEM304 | Electrical Machines II | 4 | 3+0/3 | Z | T |
| EEM306 | Control Systems | 4 | 3+0/3 | Z | T |
| EEM308 | Digital Electronics Laboratory | 2 | 0+2/1 | Z | T |
| EEM314 | Electrical Machines Laboratory II | 2 | 0+2/1 | Z | T |
| EEM328 | Microcontrollers And Applications | 4 | 3+2/4 | Z | T |
| EEM312 | Power Electronics | 4 | 3+1/4 | Z | T |
| EEMSEC2 | VOCATIONAL ELECTIVE COURSE (1 COURSE) | 4 | 3+0/3 | S | T |
| SOSSEC4 | Social Elective Courses 4 | 2 | 2+0/2 | S | T |
| | Semester Total : | **30** | 20+7/**24** | | |
| | YIL TOPLAMI : | **60** | | | |

| 4. Year | | | | | |
|---|---|---|---|---|---|
| Code | Title | ECTS | WCH T+L/C | M/S | Lang |
| **7. Semester** | | | | | |
| EEM401 | Senior Design Project | 2 | 0+2/1 | Z | T |
| EEM469 | Electrıcal Energy Generation | 3 | 3+0/3 | Z | T |
| EEM471 | Electrical Power Transmission And Distribution | 3 | 3+0/3 | Z | T |
| EEM467 | Programmable Logic Controllers | 4 | 3+0/3 | Z | T |
| EEMSEC3 | VOCATIONAL ELECTIVE COURSE | 4 | 3+0/3 | S | T |
| EEMSEC3 | VOCATIONAL ELECTIVE COURSE | 4 | 3+0/3 | S | T |
| EEMSEC3 | VOCATIONAL ELECTIVE COURSE | 4 | 3+0/3 | S | T |
| EEMSEC3 | VOCATIONAL ELECTIVE COURSE | 4 | 3+0/3 | S | T |
| SOSSEC5 | Social Elective Courses 5 | 2 | 3+0/3 | S | T |
| | Semester Total : | **30** | 24+2/**25** | | |
| **8. Semester** | | | | | |
| EEM404 | Engineering Adaptation | 15 | 0+2/1 | Z | T |
| EEM406 | Special Topics in Electrical-Electronics Enegineering | 5 | 2+0/2 | Z | T |
| EEM408 | Database Programming for Internet | 5 | 2+0/2 | Z | T |
| EEM410 | Industrial Electronics | 5 | 2+0/2 | Z | T |
| | Semester Total : | **30** | 6+2/**7** | | |
| | Year Total: | **60** | | | |
| | | | | | |
| | ECTS TOTAL : | **240** | | | |
| | NATIONAL GRADUATION CREDIT : | **153** | | | |

| Elective Courses | | | | | |
|---|---|---|---|---|---|
| | | | | | |
| **2. Year** | | | | | |
| Code | Title | ECTS | WCH T+L/C | M/S | Lang |
| **3. Semester** | | | | | |
| SOS201 | COMMUNICATION | 2 | 2+0/2 | S | T |
| SOS203 | ENVIRONMENTAL MANAGEMENT SYSTEMS | 2 | 2+0/2 | S | T |
| SOS205 | ECONOMY FOR ENGINEERING | 2 | 2+0/2 | S | T |
| SOS207 | CRITICAL ANALYTIC THINKING | 2 | 2+0/2 | S | T |
| SOS209 | HISTORY OF SCIENCE | 2 | 2+0/2 | S | T |
| SOS211 | VOLUNTEERING WORKS | 2 | 2+0/2 | S | T |
| **4. Semester** | | | | | |
| SOS202 | PUBLIC RELATIONS | 2 | 2+0/2 | S | T |
| SOS204 | FIRST AID | 2 | 2+0/2 | S | T |

| | | | | | |
|---|---|---|---|---|---|
| SOS206 | ENVIRONMENTAL POLLUTION AND CONTROL | 2 | 2+0/2 | S | T |
| SOS208 | ARTIFICIAL INTELLIGENCE METHODS | 2 | 2+0/2 | S | T |
| SOS210 | RESEARCH AND INVESTIGATION TECHNIQUES | 2 | 2+0/2 | S | T |
| **3. Year Vocational Elective Courses** | | | | | |
| Code | Title | ECTS | WCH T+L/C | M/ S | La ng |
| **5. Semester** | | | | | |
| EEM393 | Object Oriented Software | 2 | 2+1/3 | S | T |
| EEM395 | Web Based Programming | 2 | 2+1/3 | S | T |
| **6. Semester** | | | | | |
| EEM330 | Electric Power Quality | 3 | 3+0/3 | S | T |
| EEM332 | Safety in Electric Plants | 3 | 3+0/3 | S | T |
| **3. Year Social Elective Courses** | | | | | |
| Code | Title | ECTS | WCH T+L/C | M/ S | La ng |
| **5. Semester** | | | | | |
| SOS301 | PATENT AND INDUSTRIAL DESIGN | 2 | 2+0/2 | S | T |
| SOS303 | ENVIRONMENT and ECOLOGY | 2 | 2+0/2 | S | T |
| SOS305 | HISTORY of ART | 2 | 2+0/2 | S | T |
| SOS307 | SIGN LANGUAGE | 2 | 2+0/2 | S | T |
| SOS309 | OPERATIONS RESEARCH | 2 | 2+0/2 | S | T |
| SOS311 | ADMINISTRATION OF TECHNOLOGY AND INNOVATION | 2 | 2+0/2 | S | T |
| **6. Semester** | | | | | |
| SOS302 | ENTREPRENEURSHIP | 2 | 2+0/2 | S | T |
| SOS304 | AHI COMMUNITY AND PROFFESIONAL ETHICS | 2 | 2+0/2 | S | T |
| SOS306 | PRODUCTION PLANNING | 2 | 2+0/2 | S | T |
| SOS308 | ERGONOMY | 2 | 2+0/2 | S | T |
| SOS310 | CLIMATE CHANGE AND SUSTAINABLE ADMINISTRATION | 2 | 2+0/2 | S | T |
| SOS312 | CAREER PLANNING AND DEVELOPMENT | 2 | 2+0/2 | S | T |
| SOS314 | INTERNATIONAL RELATIONS | 2 | 2+0/2 | S | T |
| **4. Year Vocational Elective Courses** | | | | | |
| Code | Title | ECTS | WCH T+L/C | M/ S | La ng |
| **7. Semester** | | | | | |
| EEM421 | Embedded Systems | 4 | 3+0/3 | S | T |
| EEM423 | Medical Electronics | 4 | 3+0/3 | S | T |
| EEM425 | Optoelectronics | 4 | 3+0/3 | S | T |
| EEM427 | Illumination Technic | 4 | 3+0/3 | S | T |
| EEM429 | Air Conditioning And Cooling | 4 | 3+0/3 | S | T |

| | | | | | |
|---|---|---|---|---|---|
| EEM431 | Introduction Artificial Neural Networks | 4 | 3+0/3 | S | T |
| EEM433 | Design Of Analog Integrated Circuits | 4 | 3+0/3 | S | T |
| EEM435 | Microwave Circuits | 4 | 3+0/3 | S | T |
| EEM437 | Electromagnetic Compatibility | 4 | 3+0/3 | S | T |
| EEM439 | High Voltage Techniques | 4 | 3+0/3 | S | T |
| EEM441 | Basis Of Biomedical Engineering | 4 | 3+0/3 | S | T |
| EEM445 | Digital Signal Processing | 4 | 3+0/3 | S | T |
| EEM447 | Digital Communication | 4 | 3+0/3 | S | T |
| EEM449 | Electrical Installation Project | 4 | 3+0/3 | S | T |
| EEM451 | Non-Linear Circuits And Systems | 4 | 3+0/3 | S | T |
| EEM455 | Introduction To Programmable Logic Components | 4 | 3+0/3 | S | T |
| EEM457 | Data Communication | 4 | 3+0/3 | S | T |
| EEM461 | Wireless Communication | 4 | 3+0/3 | S | T |
| EEM465 | Power System Analysis | 4 | 3+0/3 | S | T |

**4. Year Social Elective Courses**

| Code | Title | ECTS | WCH T+L/C | M/S | Lang |
|---|---|---|---|---|---|
| **7. Semester** | | | | | |
| SOS401 | OCCUPATIONAL LAW | 2 | 2+0/2 | S | T |
| SOS403 | INTELLECTUAL AND INDUSTRIAL PROPERTY | 2 | 2+0/2 | S | T |
| SOS405 | POWER SAVINGS IN INDUSTRY | 2 | 2+0/2 | S | T |
| SOS407 | BUSINESS ADMINISTRATION AND MANAGEMENT | 2 | 2+0/2 | S | T |
| SOS409 | PLANT ORGANIZATION AND PLANNING | 2 | 2+0/2 | S | T |
| SOS411 | PRODUCTIVITY MEASUREMENT AND ANALYSIS | 2 | 2+0/2 | S | T |
| SOS413 | RISK MANAGEMENT | 2 | 2+0/2 | S | T |
| SOS415 | ENERGY AND ENVIRONMENT | 2 | 2+0/2 | S | T |

**WCH:** Week Course Hour

**T+L/C:** Theory + Laboratory/Credit

**ECTS:** European Credit Transfer System

**M/S:** Mandatory/Selective

## LABORATORY AND CLASSROOM INFRASTRUCTURE

### LABORATORY FACILITIES

There are 4 laboratories: Basic Electrical-Electronics Laboratory, Digital Electronics Laboratory, Electrical Machines and Power Electronics Laboratory, Communication and Project Laboratory.

### Basic Electrical-Electronics Laboratory

Circuit Analysis I and II Laboratory Experiments are carried out. There are 15 tables and each table has a power supply, multimeter, 50 Mhz oscilloscope, signal generator, breadboard and circuit elements.

## Digital Electronics and Microprocessors Laboratory

Introduction to Logic Circuits, Digital Electronics, Analog Electronics, Microcontrollers and Applications Laboratory Experiments are carried out. There are 15 tables and each table has a power supply, 100 Mhz Oscilloscope, Multimeter, Signal Generator, breadboard and circuit elements.

## Electrical Machines and Power Electronics Laboratory

Electrical Machines I and II Laboratory experiments are carried out. Electrical Machines and Control Training Set are available.

**Communication and Project Laboratory**

Students can do laboratory experiments and project applications of various courses.

## CLASSROOM FACILITIES

There are 1 blackboard, 1 projection, 1 moving projection screen and internet connection in our classrooms in the Faculty of Engineering.

Electrical-Electronics Engineering classrooms

## ACTIVITIES

## TÜBİTAK PROJECTS

The Department of Electrical and Electronics Engineering actively participates in scientific projects with the contributions of both students and academic staff, and has successfully carried out numerous projects funded by TÜBİTAK (The Scientific and Technological Research Council of Türkiye). These projects not only demonstrate the department's R&D capacity but also provide students with opportunities to engage in hands-on research and innovation.

### Faculty Member TÜBİTAK Projects

Our faculty members have participated in a total of 9 projects under various TÜBİTAK funding programs, including 1001, 1002, 1005, 1512, and 2219. Among these, 5 projects have been completed, while 4 are currently ongoing. A

total of four different academic staff members from our department have contributed to these projects.

**Undergraduate TÜBİTAK Projects**

At the undergraduate level, our students—under the supervision of faculty advisors—have applied to TÜBİTAK's 2209-A and 2242 programs and secured funding for 4 projects. One of these projects, titled "SMTP-Based Air Pollution Warning System," won third place in the regional finals of the 2021 TÜBİTAK 2242 competition. The other three projects received 2209-A support under the 2024 call.

**Adıyaman University Electronics and Software Society (IEEE Student Branch)**

The Electronics and Software Society at Adıyaman University, affiliated with the IEEE Student Branch, encourages students to keep up with the latest advancements in science and communication technologies. To this end, the society organizes seminars and training sessions led by experts in emerging technologies.

Its core objectives include increasing student interest in electrical-electronics and software-related projects, providing technical support and improved environments for student development, and enhancing learning opportunities. The society aims to strengthen students' engineering knowledge, support their technical growth, and foster peer interaction. It also seeks to help students

showcase their talents, express themselves, and build confidence in their abilities.

In addition, the society serves as a bridge between students and university administration by conveying student-driven suggestions, promoting the effective use of university resources, and contributing to research and project development within Adıyaman University.


IEEE ADYU introductory conference

IEEE ADYU Tea Talk Event

**Technical Trips and Seminars**

As the Department of Electrical and Electronics Engineering, we organize various technical trips to contribute to the professional development of our students. During the technical visit to the Atatürk Dam and Hydroelectric Power Plant in 2025, our students gained in-depth knowledge about the dam's technical infrastructure and control center. In the same year, a visit to the ETİ Copper Mining Facility provided students with practical insights into both underground and above-ground

electrical-electronic systems and automation infrastructure. Students also had the opportunity to exchange information with the facility's technical staff.

All these activities play a significant role in helping students transform their theoretical knowledge into practice and in increasing their awareness of the industry.




Technical trips organized as departments

## ERASMUS + ACTIVITIES

Our department has signed a 7-year mutual learning agreement with the AGH UST (Krakow, Poland) university, which is ranked between 500-600 in the world. Currently;

Siauliai State College (Lithuania),

Rezekne Academy of Technologies (Latvia)

"1 Decembrie 1978" Universtiy Of Alba Iulia (Romania)

Universitatea "Constantin Brancushi" religion Targu-Jiu (Romania)

The Technical University of Varna (Varna, Bulgaria)

It has bilateral Erasmus + learning and internship mobility agreements with universities.

# PHOTOS

FACULTY of ENGINEERING DEPARTMENT of ELECTRICAL-ELECTRONICS ENGINEERING
DESCRIPTION BOOKLET 2025-2026

FACULTY of ENGINEERING DEPARTMENT of ELECTRICAL-ELECTRONICS ENGINEERING
DESCRIPTION BOOKLET 2025-2026

FACULTY OF ENGINEERING
DEPARTMENT of ELECTRICAL and ELECTRONICS ENGINEERING

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# ADIYAMAN UNIVERSITY
# FACULTY OF ENGINEERING
# DEPARTMENT OF FOOD ENGINEERING

## INTRODUCTORY BOOKLET

2025-2026

## CONTENTS


- Department of Food Engineering
- Mission & Vision
- About Food Engineering
- About Department of Food Engineering
- Job Opportunities for Graduates
- Highest and Lowest Placement Scores According to Central Placement
- Course Catalogue

## DEPARTMENT OF FOOD ENGINEERING

In 2011, Adıyaman University, Department of Food Engineering started student admissions in the 2012-2013 academic year. It was closed to student admission in 2019.

## Head of Department

Prof. Dr. Şükrü KURT

## Academic Staff

**Department of Food Technology**

Prof. Dr. Şükrü KURT (Head of the Department of Food Technology)

Assistant Professor Dr. Huriye Gözde CEYLAN

**Department of Food Science**

Associate Professor Dr. Miraç UÇKUN (Head of the Department of Food Science)

Assistant Professor Dr. Leyla EREN KARAHAN

## Department Secretary

Aysel Kelepçe Karacıl

- **Mission & Vision**

## Mission

Our department aims to know the food system well, to examine the effects of the system on human health, environment, social justice and economic development realistically and objectively at the global and local level; Having the necessary academic (technical and technological), social and cognitive knowledge and skills to contribute to the functioning and transformation of the system in line with the sustainable development goals; and to train graduates who can apply these knowledge and skills in the light of current developments in science and technology with innovative and creative methods.

## Vision

Food Engineering Department produces the scientific and technological information required for

the ethical operation and transformation of the food system in line with the global and local sustainable development goals, focusing on human health and environment; working to use this information on a national and international scale with a transdisciplinary systematic approach in solving the problems of the age, carrying out the activities (technology transfer, scientific communication) required for the effective use of the information and solutions produced by all stakeholders (private sector, civil society, public) and aims to be a department that actively contributes to the formation of policies affecting the food system

## About Food Engineering

Food engineers are engineers who possess knowledge and skills in the design, production, safety, and sustainability of healthy, safe, and high-quality, value-added foods at all stages, from "farm to fork".

## About the Department of Food Engineering

The mission of the Food Engineering Department; to train food engineers equipped with knowledge and skills in food engineering. In addition, it is to conduct scientific research and present its knowledge and experience for the benefit of the food industry and society.

## Job Opportunities for Our Graduate Students

Graduates; in the private sector; can work as project engineers, business engineers, investment specialists, consultants, and quality specialists in food-related businesses. They can work as engineers and managers in the fields of R&D, production, quality assurance, marketing, and import and export of the food industry. Students who complete the program can apply for master's and doctorate degrees in the field of Food Engineering or in other branches of science that accept students from this field. In the public sector of food engineers; There are employment opportunities in the Ministry of Agriculture and Rural Affairs, Ministry of Health, Ministry of Industry and Trade, Turkish Standards Institute, and municipalities.

## Highest and Lowest Placement Scores According to Central Placement

According to the results of the placement announced by the Centre for Assessment, Selection, and Placement in 2017, the students were placed in our department with the lowest score of 242,4855, while the highest score was 288,18069. 6 of the 20 student quotas opened in total have been filled.

According to the results of the placement announced by the Centre for Assessment, Selection and Placement in 2018, the students were placed in our department with the lowest score of 249,54974, while the highest score was 304,29274. 3 of the 15 student quotas opened in total have been filled.

According to the placement results announced by the Centre for Assessment, Selection, and Placement in 2019, a student was placed in our department with a score of 311,34573.

# Course Catalogue

| 1. Class | | | | | |
|---|---|---|---|---|---|
| Code | Course Name | ECTS | WCH T+A/C | C/E | La. |
| **First Semester** | | | | | |
| AİİT101 | Ataturk's Principles and Turkish Revolution I | 2 | 2+0/2 | C | T |
| FİZ101 | Physics I | 4 | 2+2/3 | C | T |
| GDM105 | Biology | 4 | 2+0/2 | C | T |
| GDM109 | Introduction of Food Engineering | 6 | 2+0/2 | C | T |
| KİM101 | Chemistry | 4 | 2+2/3 | C | T |
| MAT101 | Calculus I | 5 | 3+1/4 | C | T |
| TD101 | Turkish I | 2 | 2+0/2 | C | T |
| YD101 | Foreign Language I | 3 | 2+0/2 | C | T |
| | Fall Semester Total: | **30** | 17+5/**20** | | |
| **Second Semester** | | | | | |
| AİİT102 | Ataturk's Principles and Turkish Revolution II | 2 | 2+0/2 | C | T |
| ENF102 | Basic Information Technologies | 5 | 2+0/2 | C | T |
| FİZ102 | Physics II | 4 | 2+2/3 | C | T |
| GDM108 | Engineering Drawing with Computer | 4 | 1+2/2 | C | T |
| KİM102 | Organic Chemistry | 5 | 3+0/3 | C | T |
| MAT102 | Calculus II | 5 | 3+1/4 | C | T |
| TD102 | Turkish II | 2 | 2+0/2 | C | T |
| YD102 | Foreign Language II | 3 | 2+0/2 | C | T |
| | Spring Semester Total: | **30** | 17+5/**20** | | |
| | YEAR TOTAL : | **60** | | | |

| 2. Class | | | | | |
|---|---|---|---|---|---|
| Code | Course Name | ECTS | WCH T+A/C | C/E | La. |
| **Third Semester** | | | | | |
| GDM203 | Engineering Mathematics | 4 | 3+0/3 | C | T |
| GDM205 | Mass and Energy Balances | 4 | 3+0/3 | C | T |
| GDM207 | General Microbiology | 5 | 2+2/3 | C | T |
| GDM209 | Food Chemistry and Biochemistry | 5 | 4+0/4 | C | T |
| GDM211 | Engineering Thermodynamics | 3 | 2+0/2 | C | T |
| GDM201 | Analytical Chemistry | 4 | 2+2/3 | C | T |
| MUH201 | Statistic for Engineering | 3 | 2+0/2 | C | T |
| SOSSEC1 | Social Elective Course 1 | 2 | 2+0/2 | E | T |
| | Fall Semester Total: | **30** | 20+4/**22** | | |
| **Fourth Semester** | | | | | |
| GDM200 | Internship 1 | 0 | 0+0/0 | C | T |
| GDM202 | Fluid Mechanics | 4 | 3+0/3 | C | T |
| GDM204 | Heat and Mass Transfer | 4 | 3+0/3 | C | T |
| GDM206 | Food Microbiology I | 5 | 2+2/3 | C | T |
| GDM208 | Reaction Kinetics | 3 | 2+0/2 | C | T |
| GDM212 | Instrumental Food Analysis | 5 | 2+2/3 | C | T |
| GDM218 | Laboratory Techniques | 4 | 2+2/3 | C | T |
| MUH204 | Occupational Health and Safety | 3 | 2+0/2 | C | T |
| SOSSEC2 | Social Elective Course 2 | 2 | 2+0/2 | E | T |
| | Spring Semester Total: | **30** | 18+6/**21** | | |

| | | | | | |
|---|---|---|---|---|---|
| | | YEAR TOTAL : | **60** | | |
| **3. Class** | | | | | |
| Code | Course Name | ECTS | WCH T+A/C | C/E | La. |
| **Fifth Semester** | | | | | |
| GDM301 | Food Engineering Unit Operations | 5 | 4+0/4 | C | T |
| GDM303 | Food Biotechnology | 5 | 3+0/3 | C | T |
| GDM305 | Food Microbiology II | 4 | 2+0/2 | C | T |
| GDM311 | Nurtition | 4 | 2+0/2 | C | T |
| GDM313 | Food Packaging | 4 | 2+0/2 | C | T |
| GDM315 | Fermentation Technology | 4 | 2+0/2 | C | T |
| GDMSEC1 | Professional Elective Courses 1 | 2 | 2+0/2 | E | T |
| SOSSEC3 | Social Elective Courses 3 | 2 | 2+0/2 | E | T |
| | Fall Semester Total: | **30** | 19+0/**19** | | |
| **Sixth Semester** | | | | | |
| GDM300 | Internship 2 | 0 | 0+0/0 | C | T |
| GDM302 | Fruit and Vegetable Processing Technology | 5 | 2+2/3 | C | T |
| GDM304 | Cereal Processing Technology | 5 | 2+2/3 | C | T |
| GDM306 | Oil Technology | 4 | 3+0/3 | C | T |
| GDM310 | Food Additives and Toxicology | 4 | 2+0/2 | C | T |
| GDM324 | Hygiene and Sanitation in Food Industry | 4 | 2+0/2 | C | T |
| GDMSEC2 | Professional Elective Courses 2 | 2 | 2+0/2 | E | T |
| SOSSEC4 | Social Elective Courses 4 | 2 | 2+0/2 | E | T |
| | Spring Semester Total: | **30** | 15+4/**17** | | |
| | YEAR TOTAL : | **60** | | | |
| **4. Class** | | | | | |
| Code | Course Name | ECTS | WCH T+A/C | C/E | La. |
| **Seventh Semester** | | | | | |
| GDM403 | Meat Science and Technology | 5 | 2+2/3 | C | T |
| GDM405 | Dairy Science and Technology | 5 | 2+2/3 | C | T |
| GDM411 | Cheese Technology | 4 | 2+0/2 | C | T |
| GDM413 | Catering Technology | 4 | 2+0/2 | C | T |
| GDM423 | Enzyme Science and Technology | 4 | 2+0/2 | C | T |
| GDM433 | Senior Design Project | 4 | 0+2/1 | C | T |
| GDMSEC3 | Professional Elective Courses 3 | 2 | 2+0/2 | E | T |
| SOSSEC5 | Social Elective Courses 5 | 2 | 2+0/2 | E | T |
| | Fall Semester Total: | **30** | 14+6/**17** | | |
| **Sekizinci Yarıyıl** | | | | | |
| GDM404 | Engineering Adaptation | 15 | 0+2/1 | C | T |
| GDM406 | Product Development | 5 | 2+0/2 | C | T |
| GDM408 | Food Projects Preparation Technique | 5 | 2+0/2 | C | T |
| GDM410 | Problems and Evaluation of Local Food Business | 5 | 2+0/2 | C | T |
| | Fall Semester Total: | **30** | 6+2/**7** | | |
| | YEAR TOTAL: | **60** | | | |
| | | | | | |
| | ECTS TOTAL: | **240** | | | |
| | NATIONAL GRADUATION CREDIT: | **143** | | | |

| Elective Courses | | | | | |
|---|---|---|---|---|---|
| | | | | | |
| **2. Class** | | | | | |
| Code | Course Name | ECTS | WCH T+A/C | C/E | La. |
| **Third Semester** | | | | | |
| SOS201 | Communication | 2 | 2+0/2 | E | T |
| SOS203 | Enviromental Management Systems | 2 | 2+0/2 | E | T |
| SOS205 | Engineering Economy | 2 | 2+0/2 | E | T |
| SOS207 | Critical Analytic Thinking | 2 | 2+0/2 | E | T |
| SOS209 | History of Science | 2 | 2+0/2 | E | T |
| SOS211 | Volunteering Work | 2 | 2+0/2 | E | T |
| | | | | | |
| **Fourth Semester** | | | | | |
| SOS202 | Public Relations | 2 | 2+0/2 | E | T |
| SOS204 | First Aid | 2 | 2+0/2 | E | T |
| SOS206 | Enviromental Pollution and Control | 2 | 2+0/2 | E | T |
| SOS208 | Artifical Intelligence Methods | 2 | 2+0/2 | E | T |
| SOS210 | Research and Investigation Techniques | 2 | 2+0/2 | E | T |
| | | | | | |
| **3. Class** | | | | | |
| Code | Course Name | ECTS | WCH T+A/C | C/E | La. |
| **Fifth Semester** | | | | | |
| GDM317 | Cold Technique and Storage | 2 | 2+0/2 | E | T |
| GDM319 | Food and Busıness Ethics | 2 | 2+0/2 | E | T |
| GDM321 | Quality Control and Legıslation | 2 | 2+0/2 | E | T |
| GDM323 | Material Science | 2 | 2+0/2 | E | T |
| GDM325 | Food Preservation Techniques | 2 | 2+0/2 | E | T |
| SOS301 | Patents and Industrial Designs | 2 | 2+0/2 | E | T |
| SOS303 | Environment and Ecology | 2 | 2+0/2 | E | T |
| SOS305 | History of Art | 2 | 2+0/2 | E | T |
| SOS307 | Sign Language | 2 | 2+0/2 | E | T |
| SOS309 | Operational Research | 2 | 2+0/2 | E | T |
| SOS311 | Technology and Innovation Management | 2 | 2+0/2 | E | T |
| | | | | | |
| **Sixth Semester** | | | | | |
| GDM308 | Research Methods and Techniques | 2 | 2+0/2 | E | T |
| GDM312 | Food Quality and Safety Systems | 2 | 2+0/2 | E | T |
| GDM314 | Special Food Technology | 2 | 2+0/2 | E | T |
| GDM316 | Industrial Microbiology | 2 | 2+0/2 | E | T |
| GDM318 | Food Machinery and Equipment | 2 | 2+0/2 | E | T |
| GDM320 | Food Reology | 2 | 2+0/2 | E | T |
| GDM322 | Sensory Analysis Techniques | 2 | 2+0/2 | E | T |
| SOS302 | Entrepreneurship | 2 | 2+0/2 | E | T |
| SOS304 | Ahi Community and Professional Ethics | 2 | 2+0/2 | E | T |
| SOS306 | Production Planning | 2 | 2+0/2 | E | T |
| SOS308 | Ergonomy | 2 | 2+0/2 | E | T |
| SOS310 | Climate Change and Sustainable Management | 2 | 2+0/2 | E | T |
| SOS312 | Career Planning and Development | 2 | 2+0/2 | E | T |

| | | | | | |
|---|---|---|---|---|---|
| SOS314 | International Relations | | | | |
| | | | | | |

| 4. Class | | | | | |
|---|---|---|---|---|---|
| Code | Course Name | ECTS | WCH T+A/C | C/E | La. |
| **Seventh Semester** | | | | | |
| GDM407 | Design in Food Engineering | 2 | 2+0/2 | E | T |
| GDM409 | Aquaculture Processing Technology | 2 | 2+0/2 | E | T |
| GDM417 | Poultry Meat Technology | 2 | 2+0/2 | E | T |
| GDM419 | Food Economics and Management | 2 | 2+0/2 | E | T |
| GDM421 | Sugar and Sugar Products Technology | 2 | 2+0/2 | E | T |
| GDM425 | Functional Food Technology | 2 | 2+0/2 | E | T |
| GDM429 | Emulsion Technology in Food Production | 2 | 2+0/2 | E | T |
| SOS401 | Business Law | 2 | 2+0/2 | E | T |
| SOS403 | Intellectual and Industrial Property | 2 | 2+0/2 | E | T |
| SOS405 | Energy Conservation in Industry | 2 | 2+0/2 | E | T |
| SOS407 | Business Administration and Management | 2 | 2+0/2 | E | T |
| SOS409 | Factory Organization and Facility Planning | 2 | 2+0/2 | E | T |
| SOS411 | Productivity Measurement and Analysis | 2 | 2+0/2 | E | T |
| SOS413 | Project Management | 2 | 2+0/2 | E | T |
| SOS415 | Energy and Environment | 2 | 2+0/2 | E | T |

**WCH:** Weekly Course Hours

**T+U/K:** Theorical + Application/Credit

**ECTS:** European Credit Transfer System

**C/E:** Compulsory/Elective

**La.**: Language (T: Turkish)

# FACULTY OF ENGINEERİNG

# DEPARTMENT OF FOOD ENGINEERING


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Department of Food Engineering
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**Web:** https://muhendislik.adiyaman.edu.tr/en/departments/department-of-food-engineering

# ADIYAMAN UNIVERSITY
# FACULTY OF ENGINEERING
# DEPARTMENT OF CIVIL ENGINEERING

## DESCRIPTION BOOKLET

2025-2026

## CONTENTS


- Department of Civil Engineering
- Mission & Vision
- The Importance of Civil Engineering Departments
- Why Civil Engineering?
- Job Opportunities for Our Graduates
- Highest and Lowest Placement Scores According to Central Placement
- Course Catalog
- Activities

## Department of Civil Engineering

Adıyaman University Department of Civil Engineering, was established in 2011, and started accepting students in the academic year 2013 - 2014.

## Head of Department

Prof. Dr. Mehmet Fatih ŞAHAN

## Vice Chair

Assist. Prof. Dr. İsmail ÜNSAL

Assist. Prof. Dr. Zeyneb KILIÇ

## Academic Staff

### Department of Structure

Prof. Dr. Murat PALA

Assist. Prof. Dr. İsmail ÜNSAL

### Department of Mechanics

Prof. Dr. Mehmet Fatih ŞAHAN

### Department of Geotechnics

Assoc. Prof. Dr. Mehmet SÖYLEMEZ

RA. Dr. Alpay ÖZDEMİR

RA. Dr. Mert GÜRTÜRK

RA. Dr. Yalçın YILMAZ

**Department of Construction Materials**

Prof. Dr. Osman GÜNAYDIN

**Department of Hydraulics**

Assoc. Prof. Dr. Musa EŞİT

Assist. Prof. Dr. Zeyneb KILIÇ

**Department of Transportation**

PhD RA. Günay TÜMEN

**Department of Construction Management**

**Department Secretary**

İrem AKDULUM

- **Mission & Vision**

## Mission

To train Civil Engineers who are beneficial to society to be employed in the design, implementation, and development of Civil Engineering related systems in institutions and organizations operating in all national and international environments according to the needs of our country and humanity through the synthesis of mathematics, science and engineering knowledge.

## Vision

A civil engineering department that educates nationally and internationally recognized engineers with sustainable development, research, and learning awareness in construction environments.

## Importance of Departments of Civil Engineering

Civil Engineering offers infrastructure and superstructure projects that shape the Development and change of the world over time for the benefit of humanity. Civil Engineering is becoming more and more important in our world, where the change is exceptionally fast. Civil Engineering is becoming increasingly important in our country where devastating earthquakes occur. Therefore, it is aimed to develop earthquake regulations and to

ensure the development and implementation of earthquake-resistant design principles and to inspect them.The need for effective civil engineering projects is increasing due to the rapidly growing urbanization and insufficient infrastructure elements, and the problems caused by rapid population growth. Civil engineering continues to be an engineering field that extends to the future with its structural vision.

## Why Civil Engineering?

Civil engineering builds structures from drinking water systems to dams where hydroelectric energy production is made and other power plants and construction of hospitals, tunnels, bridges, railways, ports, and airports parallel with the population growth and developing industry. It designs in a way

that is resistant to all-natural disasters, especially earthquakes, and builds with confidence so that society continues to build the future.

## Job Opportunities for Our Graduated Students

The graduates can work for the government in many institutions such as the General Directorate of Highways, State Hydraulic Works, Ministry of Environment and Urbanization, State Railways, Special Provincial Administrations, Municipalities, Universities Construction Affairs Department. While in the private sector, they can work for companies operating in real estate, electricity & electronics, energy, mining, and the metal industry.

## Highest and Lowest Placement Scores According to Central Placement

According to results of ÖSYS placement announces by the Directorate of Assessment, Selection and Placement Center in 2024, the student has been placed in our department with the highest score 324,58540, while the student has been placed with the lowest 292,29998 score. 9 of the 20 student quotas opened in total have been filled.

According to results of ÖSYS placement announces by the Directorate of Assessment, Selection and Placement Center in 2023, the student has been placed in our department with the highest score 363,65246, while the student has been placed with the lowest 312,15839 score. 10 of the 20 student quotas opened in total have been filled.

173 students continue their education in our department.

# Course Catalog

## 1.SEMESTER COURSE PLAN

| Course Code | Course Name | T+A+L | Compulsory/Selective | ECTS |
|---|---|---|---|---|
| AİİT101 | ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION I | 2+0+0 | COMPULSORY | 2 |
| FİZ101 | PHYSICS I | 2+0+2 | COMPULSORY | 4 |
| İNM101 | INTRODUCTION TO CIVIL ENGINEERING | 2+0+0 | COMPULSORY | 4 |
| İNM103 | COMPUTER AIDED PROFESSIONAL PICTURE | 3+0+1 | COMPULSORY | 6 |
| KİM101 | CHEMISTRY | 2+0+2 | COMPULSORY | 4 |
| MAT101 | MATH I | 3+1+0 | COMPULSORY | 5 |
| TD101 | TURKISH LANGUAGE I | 2+0+0 | COMPULSORY | 2 |
| YD101 | FOREIGN LANGUAGE I | 2+0+0 | COMPULSORY | 3 |
| | | | Toplam AKTS | 30 |

## 2.SEMESTER COURSE PLAN

| Course Code | Course Name | T+A+L | Compulsory/Selective | ECTS |
|---|---|---|---|---|
| AİİT102 | ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION II | 2+0+0 | COMPULSORY | 2 |
| İNM102 | CONSTRUCTION GEOLOGY | 3+0+0 | COMPULSORY | 4 |
| İNM104 | STATICS | 5+0+0 | COMPULSORY | 6 |
| İNM106 | COMPUTER AIDED ARCHITECTURAL PROJECT DRAWING | 3+0+1 | COMPULSORY | 5 |
| MAT102 | MATH II | 3+1+0 | COMPULSORY | 5 |
| MAT104 | LINEAR ALGEBRA | 2+0+0 | COMPULSORY | 3 |
| TD102 | TURKISH LANGUAGE II | 2+0+0 | COMPULSORY | 2 |
| YD102 | FOREIGN LANGUAGE II | 2+0+0 | COMPULSORY | 3 |
| | | | Toplam AKTS | 30 |

## 3.SEMESTER COURSE PLAN

| Course Code | Course Name | T+A+L | Compulsory/Selective | ECTS |
|---|---|---|---|---|
| İNM201 | STRENGTH I | 3+0+0 | COMPULSORY | 4 |
| İNM203 | SOIL MECHANICS I | 2+1+0 | COMPULSORY | 4 |
| İNM205 | FLUID MECHANICS | 3+0+1 | COMPULSORY | 4 |
| İNM207 | CONSTRUCTION MATERIALS | 4+0+0 | COMPULSORY | 4 |
| İNM209 | BUILDING INFORMATION | 4+0+0 | COMPULSORY | 5 |
| İNM211 | TOPOGRAPHY | 3+1+0 | COMPULSORY | 4 |
| MUH201 | STATISTICS FOR ENGINEERS | 2+0+0 | COMPULSORY | 3 |
| SEÇ 1 | Social Elective Courses | 2+0+0 | COMPULSORY | 2 |
| | | | Toplam AKTS | 30 |
| | | | | |
| SOS201 | COMMUNICATION | 2+0+0 | ELECTIVE | 2 |
| SOS203 | ENVIRONMENTAL MANAGEMENT SYSTEMS | 2+0+0 | ELECTIVE | 2 |
| SOS205 | ECONOMY FOR ENGINEERING | 2+0+0 | ELECTIVE | 2 |
| SOS207 | CRITICAL ANALYTIC THINKING | 2+0+0 | ELECTIVE | 2 |
| SOS209 | HISTORY OF SCIENCE | 2+0+0 | ELECTIVE | 2 |
| SOS211 | VOLUNTEERING WORKS | 2+0+0 | ELECTIVE | 2 |

## 4.SEMESTER COURSE PLAN

| Course Code | Course Name | T+A+L | Compulsory/Selective | ECTS |
|---|---|---|---|---|
| İNM202 | STRENGHT II | 3+0+0 | COMPULSORY | 4 |
| İNM204 | STRUCTURAL ANALYSIS I | 3+0+0 | COMPULSORY | 3 |
| İNM206 | SOIL MECHANICS II | 2+1+0 | COMPULSORY | 4 |
| İNM208 | HYDROLIC | 2+0+1 | COMPULSORY | 4 |
| İNM210 | CONCRETE TECHNOLOGY | 3+1+0 | COMPULSORY | 4 |
| İNM212 | PROGRAMMING IN CIVIL ENGINEERING | 2+1+0 | COMPULSORY | 3 |
| İNM214 | SUMMER INTERNSHIP I | 0+0+0 | COMPULSORY | 0 |
| MAT202 | DIFFERANTIAL EQUATIONS | 3+0+0 | COMPULSORY | 4 |
| MUH204 | OCCUPATIONAL HEALTH AND SAFETY | 2+0+0 | COMPULSORY | 2 |
| SEÇ 2 | SOCİAL ELECTİVE COURSES | 2+0+0 | ELECTIVE | 2 |
| | | | Toplam AKTS | 30 |
| | | | | |
| SOS202 | PUBLIC RELATIONS | 2+0+0 | ELECTIVE | 2 |
| SOS204 | FIRST AID | 2+0+0 | ELECTIVE | 2 |
| SOS206 | ENVIRONMENTAL POLLUTION AND ITS CONTROL | 2+0+0 | ELECTIVE | 2 |
| SOS208 | ARTIFICIAL INTELLIGENCE METHODS | 2+0+0 | ELECTIVE | 2 |
| SOS210 | RESEARCH AND REVIEW TECHNIQUES | 2+0+0 | ELECTIVE | 2 |

## 5.SEMESTER COURSE PLAN

| Course Code | Course Name | T+A+L | Compulsory/Selective | ECTS |
|---|---|---|---|---|
| İNM301 | BUILDIND STATICD II | 3+0+0 | COMPULSORY | 3 |
| İNM303 | CONCRETE I | 3+1+1 | COMPULSORY | 5 |
| İNM305 | ROAD ENGINEERING | 2+1+0 | COMPULSORY | 4 |
| İNM307 | INTRODUCTION TO STEEL STRUCTURES | 4+0+0 | COMPULSORY | 5 |
| İNM309 | WATER SUPPLY AND WASTE WATER | 3+0+0 | COMPULSORY | 5 |
| İNM311 | CONSTRUCTION MANAGEMENT | 2+0+0 | COMPULSORY | 3 |
| SEÇ 3 | SOCIAL ELECTIVE COURSES | 2+0+0 | ELECTIVE | 2 |
| SEÇ 4 | PROFESSIONAL ELECTIVE COURSES | 3+0+0 | ELECTIVE | 3 |
| | | | Toplam AKTS | 30 |
| | | | | |
| İNM323 | WATER RESOURCES | 3+0+0 | ELECTIVE | 3 |
| İNM327 | INTRODUCTION TO SOIL LABORATORY TESTS | 1+0+2 | ELECTIVE | 3 |
| İNM329 | INTRODUCTION TO BUILDING LABORATORY TESTS | 1+0+2 | ELECTIVE | 3 |
| SOS301 | PATENT AND INDUSTRIAL DESIGNS | 2+0+0 | ELECTIVE | 2 |
| SOS311 | TECHNOLOGY AND INNOVATION MANAGEMENT | 2+0+0 | ELECTIVE | 2 |

## 6.SEMESTER COURSE PLAN

| Course Code | Course Name | T+A+L | Compulsory/Selective | ECTS |
|---|---|---|---|---|
| İNM302 | CONCRETE II | 3+1+0 | COMPULSORY | 6 |
| İNM304 | QUANTITY AND EXPLORATION WORKS | 4+0+0 | COMPULSORY | 5 |
| İNM306 | INTRODUCTION TO BUILDING DYNAMICS | 3+0+0 | COMPULSORY | 4 |
| İNM308 | WATER STRUCTURES | 3+0+0 | COMPULSORY | 4 |
| İNM310 | FOUNDATION CONSTRUCTION | 3+0+0 | COMPULSORY | 3 |
| İNM312 | SUMMER INTERNSHIP | 0+0+0 | COMPULSORY | 0 |
| SEÇ 5 | SOCIAL ELECTIVE COURSES | 2+0+0 | ELECTIVE | 2 |
| SEÇ 6 | PROFESSIONAL ELECTIVE COURSES | 3+0+0 | ELECTIVE | 6 |
| | | | Toplam AKTS | 30 |
| | | | | |
| İNM322 | FLEXIBLE ROAD SUPERSTRUCTURES | 3+0+0 | ELECTIVE | 3 |
| İNM324 | HYDROLOGY | 3+0+0 | ELECTIVE | 3 |
| İNM328 | DAMAGE DETERMINATION IN BUILDINGS | 3+0+0 | ELECTIVE | 3 |
| İNM330 | CONSTRUCTION WORKS AND TENDER LEGISLATION | 3+0+0 | ELECTIVE | 3 |
| İNM332 | DEVELOPMENTS IN BUILDING TECHNIQUES | 3+0+0 | ELECTIVE | 3 |
| İNM334 | INTRODUCTION TO CONCRETE ADDITIVE MATERIALS | 3+0+0 | ELECTIVE | 3 |
| İNM336 | HIGHWAY DESIGN | 3+0+0 | ELECTIVE | 3 |
| İNM338 | INTRODUCTION TO SOIL TREATMENT METHODS | 3+0+0 | ELECTIVE | 3 |
| İNM340 | COMPUTER APPLICATIONS IN BUILDING ANALYSIS | 3+0+0 | ELECTIVE | 3 |

## 7.SEMESTER COURSE PLAN

| Course Code | Course Name | T+A+L | Compulsory/Selective | ECTS |
|---|---|---|---|---|
| İNM401 | EARTHQUAKE RESISTANT STRUCTURE DESIGN | 3+0+0 | COMPULSORY | 5 |
| İNM403 | BUILDING COST ANALYSIS | 3+0+0 | COMPULSORY | 3 |
| İNM405 | COMPUTER AIDED CONCRETE BUILDING DESIGN | 2+1+0 | COMPULSORY | 4 |
| İNM407 | GRADUATION PROJECT | 0+2+0 | COMPULSORY | 4 |
| SEÇ 7 | SOCIAL ELECTIVE COURSES | 2+0+0 | COMPULSORY | 2 |
| SEÇ 8 | PROFESSIONAL ELECTIVE COURSES | 3+0+0 | COMPULSORY | 12 |
| | | | Toplam AKTS | 30 |
| | | | | |
| İNM421 | COMPUTER AIDED STEEL BUILDING DESIGN | 3+0+0 | ELECTIVE | 3 |
| İNM423 | INTRODUCTION TO REPAIR STRENGTHENING IN BUILDINGS | 3+0+0 | ELECTIVE | 3 |
| İNM425 | REINFORCED CONCRETE III | 3+0+0 | ELECTIVE | 3 |
| İNM427 | PREFABRICATED BUILDINGS | 3+0+0 | ELECTIVE | 3 |
| İNM429 | DAMS | 2+0+0 | ELECTIVE | 2 |
| İNM431 | COST ANALYSIS AND PROGRESS IN CONSTRUCTION WORKS | 2+0+0 | ELECTIVE | 2 |

## 8.SEMESTER COURSE PLAN

| Course Code | Course Name | T+A+L | Compulsory/Selective | ECTS |
|---|---|---|---|---|
| İNM402 | COMPLIANCE WITH ENGINEERING | 0+2+0 | COMPULSORY | 15 |
| MUHSEC 8 | ENGINEERING ELECTIVE COURSE | 2+0+0 | ELECTIVE | 5 |
| MUH402 | INNOVATION AND PRODUCT DEVELOPMENT | 2+0+0 | ELECTIVE | 5 |
| MUH404 | QUALITY CONTROL AND STANDARDS | 2+0+0 | ELECTIVE | 5 |
| | | | Toplam AKTS | 30 |

**T+A+L:** Theorical + Application + Lab
**ECTS:** European Credit Transfer System

## Activities

Civil Engineering Department regularly organizes the event "One of Us". The scope of this activity ensures that the experiences of engineers who have graduated and have already reached a certain level of knowledge are transferred to current students. Opportunities are provided for students to participate in the DASK Earthquake Resistant Building Design Competition. Opportunities are provided for students to participate in the DE&CO International Steel Bridge Competition

# FACULTY OF ENGINEERING

# DEPARTMENT OF CIVIL ENGINEERING

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# ADIYAMAN UNIVERSITY

# FACULTY OF ENGINEERING

# MECHANICAL ENGINEERING DEPARTMENT

# INTRODUCTORY BROCHURE

# 2025-2026

# CONTENT


- Our Department
- Mission & Vision
- Importance of Mechanical Engineering
- Why Mechanical Engineering
- Job opportunities for our graduates
- Course Catalog
- Our Activities
- Educational Staff
- Classrooms, Labs and Workshops
- Contact us

# OUR DEPARTMENT

The domestic and national breakthroughs our country has made in recent years are exciting. We witness this success with pride as we stand with our faithful and persevering nation. As the Department of Mechanical Engineering, we have improved our standards for the education that the precious young people of our country deserve.

Our young people are the guarantee of our future; we have equipped you with our qualified staff, modern workshops and laboratories to prepare you as individuals who will produce in your working life.

Since the day we opened our doors in the 2015-2016 academic year to contribute to the national technological breakthrough, we have graduated many of our students and brought them to our country as qualified mechanical engineers.

We would like to see you, our precious young people, among us in this educational movement.

Mechanical Engineering Department

Department Head

# MISSION & VISION

The aim of our Faculty is to educate self-confident MACHINERY ENGINEERS who are sensitive to man, society and nature, who understand the place and role of themselves and their profession in the social development, who have acquired professional competence and ethical responsibility, who consider public benefit, who have basic knowledge that can respond to today's technological developments, who can think, who can not only analyze but also synthesize, who have research skills, who can apply their theoretical knowledge in practice. In the field of mechanical engineering, our vision is to be a research and education center that produces knowledge and technology based on the culture and value of universal science and contemporary education and within the framework of the needs of society.

# IMPORTANCE OF MECHANICAL ENGINEERING

Mechanical engineering plays an important role in the design, manufacture, operation, and maintenance of mechanical systems. Mechanical engineers work in many industries (automotive, aerospace, energy, manufacturing, etc.), developing innovative solutions and helping to solve complex problems. They also make important contributions to issues such as sustainable energy sources, environmental protection, and advanced technologies.

# WHY MECHANICAL ENGINEERING

A degree in Mechanical Engineering combines a wide range of disciplines, offering career opportunities in a variety of sectors and allowing you to develop your technical skills. Mechanical engineering graduates can find jobs in the design and manufacture of mechanical systems, automation, aerospace, energy, transportation and more. In this field, students also have the opportunity to develop problem-solving and creative thinking skills while applying various engineering principles. For these reasons, mechanical engineering can be an attractive option for students interested in technology and industrial applications.

# JOB OPPORTUNITIES FOR OUR GRADUATES

There is a wide range of employment opportunities for mechanical engineering graduates. These include automotive, aerospace, energy (including renewable energy), manufacturing, defense, consulting, and research. Mechanical engineers can work in a variety of roles including design, production, operations, maintenance, research and development, sales and marketing.Mechanical engineers can also specialize in areas such as automation, robotics, materials science, and power systems. This further expands their job opportunities. In addition, those with an entrepreneurial spirit may consider career paths such as starting their own business.

# COURSE CATALOG

| | | |
|---|---|---|
| 1. Grade | 1. Semester | (KİM101) Chemistry<br>MAK111 Introduction to Mechanical Engineering.<br>(PHYSICS101) PHYSICS I<br>MAK113 Technical Drawing I<br>(MAT101) Mathematics I<br>(AİİT101) Atatürk's Principles and Revolutionary History I<br>(TD101) Turkish Language -I<br>(YD101) Foreign Language-I |
| | 2. Semester | MAK116 Static<br>MAK120 Metrology<br>MAK102 Physics II<br>MAK118 Engineering Drawing II<br>MAT104 Linear Algebra<br>MAT102 Mathematics II<br>AIT102 Atatürk's Principles and Revolutionary History II<br>TD102 Turkish Language II |
| 2. Grade | 3. Semester | (MUH201) Statistics for Engineers<br>MAK221 Foundry Technology<br>MAK203 Materials Science<br>(SOS209) History of science<br>(SOS201) Communication<br>MAK225 Computer Aided Manufacturing<br>MAK207 Dynamics<br>MAK205 Strength I<br>MAK217 Manufacturing Processes I |
| | 4. Semester | MAK206 Strength II<br>MAK224 Introduction to alternating and direct current circuits<br>MAK220 Thermodynamics I<br>MUH204 Occupational health and safety<br>MAT202 Differential equations<br>MAK226 Engineering Materials<br>MAK222 Manufacturing Processes II<br>SOS208 Artificial Intelligence Methods<br>SOS210 Research and Review Techniques |

| | | |
|---|---|---|
| 3. Grade | 5. Semester | MAK321 Fluid Mechanics I<br>MAK323 Machine Elements I<br>MAK319 Thermodynamics II<br>MAK325 Heat Transfer I<br>MAK327 Mechanisms<br>(SOS301) Patent and Industrial Design<br>(SOS311) Technology and Innovation Management<br>MAK329 Machine Laboratory I |
| | 6. Semester | MAK346 Heat Pumps<br>MAK324 Machine Elements II<br>MAK322 Fluid Mechanics II<br>MAK328 Machine Dynamics<br>MAK332 Hydraulic Machines<br>MAK326 Heat transfer II<br>MAK350 Vocational English I |
| 4. Grade | 7. Semester | MAK437 Computer Programming<br>MAK404 Adaptation to Engineering<br>MAK435 Computer Aided Engineering Analysis<br>MAK461 Vocational English II<br>MAK451 Introduction to Finite Element Method<br>SOS403) Intellectual Property<br>(SOS405) Energy Saving in Industry<br>MAK429 Machine Laboratory II<br>MAK431 Graduation Project |
| | 8. Semester | EEM404 Engineering Adaptation<br>MUH402 Innovation and Product Development<br>MUH406 Productivity Management<br>MUH404 Quality Control and Standards |

# OUR ACTIVITIES

In our university, which follows an innovative education system, our department has started the "intern engineer" program. For this purpose, in addition to the internship training they receive during 2 summer semesters, our students receive Applied Engineering Education (UME) in the last semester of their education. They gain industry experience while they are still students. During the UME, insurance fees are covered by our university.

We have signed new bilateral education and internship agreements under Erasmus. You can spend up to 10 months for education and 4 months for internship in universities in Europe with which we have an agreement. When you return, you can tell us about the education you received, your ideas are important to us.

# EDUCATIONAL STAFF

Prof. Dr. Refet KARADAĞ

Prof. Dr. Cem ONAT

Prof. Dr. İsmail BOZKURT

Doç Dr. Şerif ÇİTİL

Doç. Dr. Yusuf BAŞOĞUL

Doç. Dr. Münür Sacit HERDEM

Doç. Dr. Taha Tuna GÖKSU

Dr. Öğr. Üyesi Kaan Emre ENGİN

Dr. Öğr. Üyesi Ali İhsan KAYA

Dr. Öğr. Üyesi Mahmut TANDOĞAN

Arş. Gör. Dr. Ekrem TAÇGÜN

Arş. Gör. Dr. Ahmet ÇETİN

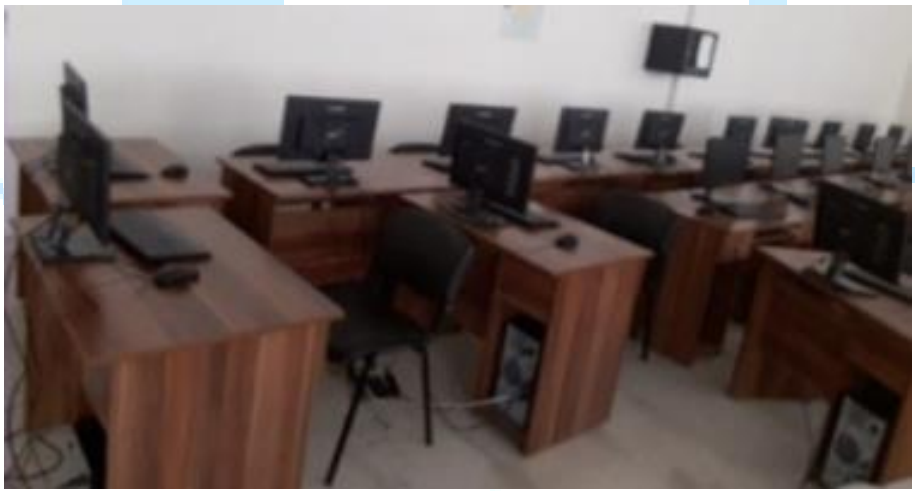
Arş. Gör. Dr. İrem Cemre TÜRÜ

Arş. Gör. Dr. Fatih KIRBIYIK

# CLASSROOMS, LABS AND WORKSHOPS

## Classrooms;

## Labs;



*Computer Laboratories*

*Thermodynamics and Energy Laboratories*

## Workshops;

*CNC (Mechanical Workshop)*

*Tensile Test Machine (Mechanical Workshop)*

*Impact Tester and training tool (Construction and Manufacturing Workshop)*

# CONTACT US

Adıyaman University Faculty of Engineering

Mechanical Engineering Department

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# FACULTY OF ENGINEERING

# DEPARTMENT OF TEXTILE ENGINEERING

INTRODUCTORY BOOKLET

2025-2026

## CONTENTS


- Our Department and Academic Staff
- Mission & Vision
- The Importance of Textile Engineering Departments
- Why Textile Engineering Department?
- Job Opportunities for Graduates
- The Highest and the Lowest Placement Scores According to the Central Placement Results
- Our Course Catalogue
- Our Departmental Activities

## OUR DEPARTMENT

Department of Textile Engineering at Adıyaman University was established under the Faculty of Engineering, in 2018, and started accepting students in 2018-2019 academic year. Since 2018, the department has been continuing its activities in Mehmet Erdemoğlu Faculty of Architecture building located in Adıyaman University Besni Campus.

***Department Head***

Assoc. Prof. Dr. Selçuk POYRAZ

***Assistant Department Head***

Assoc. Prof. Dr. Sabih OVALI

## ACADEMIC STAFF

- ***Division of Textile Technologies***
    - Assoc. Prof. Dr. Seval UYANIK
    - Assist. Prof. Dr.  Pınar PARLAKYİĞİT
    - Assoc. Prof. Dr. Sabih OVALI

- ***Division of Textile Sciences***
    - Assoc. Prof. Dr. Burcu SANCAR

- ***Division of Textile Machinery***
    - Assoc. Prof. Dr. Selçuk POYRAZ

# MISSION & VISION

## *Mission*

Our mission is both to train engineers, who can work successfully in every field related to the Textile Engineering profession, are equipped with a modern and high quality education, are open to development, have creative ideas and ethical values, are strong in communication and problem solving, and also to present the results obtained from the scientific studies to the service of the textile industry.

## *Vision*

Our vision is to become a respected and pioneering education and research institution that trains textile engineers, who are experts in the field of Textile Engineering, and who can carry out studies to transform their knowledge into benefit for society and humanity, through our effective and up-to-date education plans given at international level.

## THE IMPORTANCE OF TEXTILE ENGINEERING DEPARTMENTS

The textile industry, which is described as "labor-intensive", and plays a role as a locomotive for the economies of "developing countries", including ours, economically has a very important place by having ~$30 billion share in total exports, and also ~6% contribution in total employment. For this reason, beeing in need of engineers with the knowledge and understanding of both the requirements, and also with the ability to interpret them for the development of the textile industry, reveals the importance of Textile Engineering departments.

## WHY TEXTILE ENGINEERING DEPARTMENT?

According to the data published in the Presidency Uni-Veri information resource, graduates of the department who received the Textile Engineering education, given in 14 state universities in our country; rank 1$^{st}$ among those who can find a job in the shortest time (average 4 months 2 days), and 5$^{th}$ among those the most employed in the sector (with 67% share).

## JOB OPPORTUNITIES FOR GRADUATES

Textile Engineering graduates are employed in the production, planning, process and quality control, research and development (R&D), product development (P&D) and marketing departments of the companies/enterprises/companies/research centers operating in relevant sectors.

## THE HIGHEST AND THE LOWEST PLACEMENT SCORES ACCORDING TO THE CENTRAL PLACEMENT RESULTS

According to the central placement results announced by the Presidency of Measurement, Selection and Placement Center (OSYS) in 2024, the students were placed in our department with the highest score of 312,44745. One of the 10+1 student quotas opened in total, have been filled. Currently, 44 registered students continue their education in our department.

# OUR COURSE CATALOGUE

**1. SEMESTER**

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| AİİT101 | Ataturk's Principles and History of Revolutions I | C | 2 | 0 | 0 | 2 | 2 |
| TD101 | Turkish Language I | C | 2 | 0 | 0 | 2 | 2 |
| YD101 | English Language I | C | 3 | 0 | 0 | 3 | 3 |
| MAT101 | Calculus I | C | 3 | 1 | 0 | 4 | 5 |
| KİM101 | Chemistry | C | 2 | 0 | 2 | 3 | 4 |
| FİZ101 | Physics I | C | 2 | 0 | 2 | 3 | 4 |
| TLZ101 | Introduction to Textile Engineering | C | 2 | 0 | 0 | 2 | 2 |
| TLZ103 | Natural Fibers | C | 2 | 1 | 0 | 3 | 3 |
| TLZ105 | Technical Drawing I | C | 1 | 2 | 0 | 2 | 3 |
| ENF101 | Basics of Information Technologies I | C | 2 | 0 | 0 | 2 | 2 |
| | | **TOTAL** | **20** | **4** | **4** | **25** | **30** |

**2. SEMESTER**

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| AİİT102 | Ataturk's Principles and History of Revolutions II | C | 2 | 0 | 0 | 2 | 2 |
| TD102 | Turkish Language II | C | 2 | 0 | 0 | 2 | 2 |
| YD102 | English Language II | C | 3 | 0 | 0 | 3 | 3 |
| MUH102 | Calculus II | C | 3 | 1 | 0 | 4 | 5 |
| MUH104 | Physics II | C | 2 | 0 | 2 | 3 | 4 |
| MUH106 | Organic Chemistry | C | 2 | 0 | 1 | 3 | 3 |
| TLZ102 | Synthetic Fibers | C | 2 | 1 | 0 | 3 | 4 |
| TLZ104 | Technical Drawing II | C | 1 | 2 | 0 | 2 | 3 |
| TLZ106 | Materials Science | C | 2 | 0 | 0 | 2 | 2 |
| TLZ108 | Internship I | C | 0 | 0 | 0 | 0 | 0 |
| ENF102 | Basics of Information Technologies II | C | 2 | 0 | 0 | 2 | 2 |
| | | **TOTAL** | **20** | **4** | **3** | **25** | **30** |

**3. SEMESTER**

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| MUH201 | Statistics | C | 2 | 0 | 0 | 2 | 3 |
| TLZ201 | Machine Elements | C | 2 | 0 | 0 | 2 | 3 |
| TLZ203 | Statics | C | 2 | 0 | 0 | 2 | 3 |
| TLZ205 | Dynamics | C | 2 | 0 | 0 | 2 | 3 |
| TLZ207 | Textile Chemistry | C | 1 | 0 | 2 | 2 | 3 |
| TLZ209 | Yarn Spinning Technology | C | 2 | 1 | 0 | 3 | 4 |
| TLZ211 | Weaving Technology | C | 2 | 1 | 0 | 3 | 3 |
| TLS | Professional Elective Course | E | 2 | 0 | 0 | 2 | 3 |
| TLS | Professional Elective Course | E | 2 | 0 | 0 | 2 | 3 |
| SOSSEC | Social Elective Course | E | 2 | 0 | 0 | 2 | 2 |
| | | **TOTAL** | **19** | **2** | **2** | **22** | **30** |

**4. SEMESTER**

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| MUH202 | Differential Equations | C | 3 | 0 | 0 | 3 | 4 |
| MUH204 | Occupational Health and Safety | C | 2 | 0 | 0 | 2 | 3 |
| TLZ202 | Strength of Materials | C | 2 | 0 | 0 | 2 | 3 |
| TLZ04 | Fluid Mechanics | C | 2 | 0 | 0 | 2 | 3 |
| TLZ206 | Knitting Technology | C | 2 | 1 | 0 | 3 | 4 |
| TLZ208 | Finishing Technology | C | 2 | 1 | 0 | 3 | 4 |
| TLZ210 | Clothing Technology | C | 2 | 1 | 0 | 3 | 4 |
| TLZ212 | Internship II | C | 0 | 0 | 0 | 0 | 0 |
| TLS | Professional Elective Course II | E | 2 | 0 | 0 | 2 | 3 |
| SOSSEC | Social Elective Course II | E | 2 | 0 | 0 | 2 | 2 |
| | | **TOTAL** | **19** | **3** | **0** | **22** | **30** |

**5. SEMESTER**

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| TLZ301 | Thermodynamics and Heat Transfer | C | 2 | 0 | 0 | 2 | 3 |
| TLZ303 | Short Staple Fiber Spinning | C | 2 | 1 | 0 | 3 | 4 |
| TLZ305 | Weaving Preparations | C | 1 | 1 | 0 | 2 | 3 |
| TLZ307 | Weaving Construction | C | 2 | 1 | 0 | 3 | 4 |
| TLZ309 | Finishing Preparations | C | 2 | 0 | 2 | 3 | 4 |
| TLZ311 | Physical Textile Testing | C | 2 | 0 | 2 | 3 | 4 |
| TLS | Professional Elective Course | E | 2 | 0 | 0 | 2 | 3 |
| TLS | Professional Elective Course | E | 2 | 0 | 0 | 2 | 3 |
| SOSSEC | Social Elective Course | E | 2 | 0 | 0 | 2 | 2 |
| | | **TOTAL** | **17** | **3** | **4** | **22** | **30** |

**6. SEMESTER**

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| TLZ302 | Long Staple Fiber Spinning | C | 2 | 1 | 0 | 3 | 3 |
| TLZ304 | Weaving Machinery | C | 2 | 1 | 0 | 3 | 4 |
| TLZ306 | Woven Fabric Analysis | C | 1 | 1 | 0 | 2 | 3 |
| TLZ308 | Weft Knitting | C | 2 | 1 | 0 | 3 | 4 |
| TLZ310 | Dyeing and Printing Technologies | C | 2 | 0 | 2 | 3 | 4 |
| TLZ312 | Chemical Textile Testing | C | 2 | 0 | 2 | 3 | 4 |
| TLZ314 | Internship III | C | 0 | 0 | 0 | 0 | 0 |
| TLS | Professional Elective Course | E | 2 | 0 | 0 | 2 | 3 |
| TLS | Professional Elective Course | E | 2 | 0 | 0 | 2 | 3 |
| SOSSEC | Social Elective Course | E | 2 | 0 | 0 | 2 | 2 |
| | | **TOTAL** | **17** | **4** | **4** | **22** | **30** |

**7. SEMESTER**

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| TLZ401 | New Yarn Spinning Technologies | C | 1 | 1 | 0 | 2 | 3 |
| TLZ403 | Textile Finishing | C | 2 | 0 | 2 | 3 | 4 |
| TLZ405 | Nonwoven Technologies | C | 2 | 1 | 0 | 3 | 4 |
| TLZ407 | Production and Cost Accounts in Textile | C | 3 | 1 | 0 | 4 | 4 |
| TLZ409 | Graduation Project | C | 0 | 2 | 0 | 1 | 4 |
| TLS | Professional Elective Course | E | 2 | 0 | 0 | 2 | 3 |
| TLS | Professional Elective Course | E | 2 | 0 | 0 | 2 | 3 |
| TLS | Professional Elective Course | E | 2 | 0 | 0 | 2 | 3 |
| SOSSEC | Social Elective Course | E | 2 | 0 | 0 | 2 | 2 |
| | | **TOTAL** | **16** | **5** | **2** | **21** | **30** |

**8. SEMESTER**

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| UME402 | Adaptation to Engineering | C | 0 | 2 | 0 | 1 | 15 |
| TLZ404 | Supply Chain and Marketing in Textile (REMED) | C | 2 | 0 | 0 | 2 | 5 |
| TLZ406 | Quality Control and Standards (REMED) | C | 2 | 0 | 0 | 2 | 5 |
| TLZ408 | Innovation and Product Development (REMED) | C | 2 | 0 | 0 | 2 | 5 |
| | | **TOTAL** | **6** | **2** | **0** | **7** | **30** |

## *Elective Courses*

**3. SEMESTER PROFESSIONAL ELECTIVE COURSES**

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| TLS201 | Polymer Technology | E | 2 | 0 | 0 | 2 | 3 |
| TLS203 | Chromatics | E | 2 | 0 | 0 | 2 | 3 |
| TLS205 | Textile Industry and Ecology | E | 2 | 0 | 0 | 2 | 3 |
| TLS207 | Machine Dynamics | E | 2 | 0 | 0 | 2 | 3 |
| TLS209 | Mechatronics | E | 2 | 0 | 0 | 2 | 3 |

**3. SEMESTER SOCIAL ELECTIVE COURSES**

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| SOS201 | Communication | E | 2 | 0 | 0 | 2 | 2 |
| SOS203 | Environment Management Systems | E | 2 | 0 | 0 | 2 | 2 |
| SOS205 | Engineering Economy | E | 2 | 0 | 0 | 2 | 2 |
| SOS207 | Critical Analytic Thinking | E | 2 | 0 | 0 | 2 | 2 |
| SOS209 | History of Science | E | 2 | 0 | 0 | 2 | 2 |
| SOS211 | Volunteering Study | E | 2 | 0 | 0 | 2 | 2 |

**4. SEMESTER PROFESSIONAL ELECTIVE COURSES**

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| TLS202 | Textile Auxiliaries | E | 2 | 0 | 0 | 2 | 3 |
| TLS204 | Electric and Electronics Information | E | 2 | 0 | 0 | 2 | 3 |
| TLS206 | Control Systems | E | 2 | 0 | 0 | 2 | 3 |
| TLS208 | Mechanism Technique | E | 2 | 0 | 0 | 2 | 3 |
| TLS210 | Numerical Analysis | E | 2 | 0 | 0 | 2 | 3 |

**4. SEMESTER SOCIAL ELECTIVE COURSES**

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| SOS202 | Public Relations | E | 2 | 0 | 0 | 2 | 2 |
| SOS204 | First Aid | E | 2 | 0 | 0 | 2 | 2 |
| SOS206 | Environmental Pollution and Control | E | 2 | 0 | 0 | 2 | 2 |
| SOS208 | Artificial Intelligence Methods | E | 2 | 0 | 0 | 2 | 2 |
| SOS210 | Research and Investigation Techniques | E | 2 | 0 | 0 | 2 | 2 |

## 5. SEMESTER PROFESSIONAL ELECTIVE COURSES

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| TLS301 | Synthetic Yarn Spinning | E | 2 | 0 | 0 | 2 | 3 |
| TLS303 | Work and Time Study | E | 2 | 0 | 0 | 2 | 3 |
| TLS305 | Textile Composites | E | 2 | 0 | 0 | 2 | 3 |
| TLS307 | Nanotechnology Applications in Textile | E | 2 | 0 | 0 | 2 | 3 |
| TLS309 | Professional English I | E | 2 | 0 | 0 | 2 | 3 |

## 5. SEMESTER SOCIAL ELECTIVE COURSES

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| SOS301 | Patent and Industrial Design | E | 2 | 0 | 0 | 2 | 2 |
| SOS303 | Environment and Ecology | E | 2 | 0 | 0 | 2 | 2 |
| SOS305 | History of Art | E | 2 | 0 | 0 | 2 | 2 |
| SOS307 | Sign Language | E | 2 | 0 | 0 | 2 | 2 |
| SOS309 | Operations Research | E | 2 | 0 | 0 | 2 | 2 |
| SOS311 | Technology and Innovation Management | E | 2 | 0 | 0 | 2 | 2 |

## 6. SEMESTER PROFESSIONAL ELECTIVE COURSES

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| TLS302 | Wool Spinning | E | 2 | 0 | 0 | 2 | 3 |
| TLS304 | Warp Knitting | E | 2 | 0 | 0 | 2 | 3 |
| TLS306 | Apparel Modeling | E | 2 | 0 | 0 | 2 | 3 |
| TLS308 | Organization and Planning in Clothing | E | 2 | 0 | 0 | 2 | 3 |
| TLS310 | Sustainability in Textile | E | 2 | 0 | 0 | 2 | 3 |
| TLS312 | Professional English II | E | 2 | 0 | 0 | 2 | 3 |

## 6. SEMESTER SOCIAL ELECTIVE COURSES

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| SOS302 | Entrepreneurship | E | 2 | 0 | 0 | 2 | 2 |
| SOS304 | Akhism and Professional Ethics | E | 2 | 0 | 0 | 2 | 2 |
| SOS306 | Production Planning | E | 2 | 0 | 0 | 2 | 2 |
| SOS308 | Ergonomics | E | 2 | 0 | 0 | 2 | 2 |
| SOS310 | Climate Change and Sustainable Management | E | 2 | 0 | 0 | 2 | 2 |
| SOS312 | Career Planning and Development | E | 2 | 0 | 0 | 2 | 2 |
| SOS314 | International Relations | E | 2 | 0 | 0 | 2 | 2 |

## 7. SEMESTER PROFESSIONAL ELECTIVE COURSES

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| TLS401 | Fancy Yarn Spinning | E | 2 | 0 | 0 | 2 | 3 |
| TLS403 | Texturing | E | 2 | 0 | 0 | 2 | 3 |
| TLS405 | Pile Fabric Technology | E | 2 | 0 | 0 | 2 | 3 |
| TLS407 | Knitted Fabric Analysis | E | 2 | 0 | 0 | 2 | 3 |
| TLS409 | Coating and Lamination Technologies in Textile | E | 2 | 0 | 0 | 2 | 3 |
| TLS411 | Computerized Modeling | E | 2 | 0 | 0 | 2 | 3 |
| TLS413 | Fashion and Design | E | 2 | 0 | 0 | 2 | 3 |
| TLS415 | Technical Textiles | E | 2 | 0 | 0 | 2 | 3 |

## 7. SEMESTER SOCIAL ELECTIVE COURSES

| Course Code | Course Name | Type | Theoretical | Practice | Laboratory | Credit | ECTS |
|---|---|---|---|---|---|---|---|
| SOS401 | Occupational Law | E | 2 | 0 | 0 | 2 | 2 |
| SOS403 | Intellectual and Industrial Property | E | 2 | 0 | 0 | 2 | 2 |
| SOS405 | Power Savings in Industry | E | 2 | 0 | 0 | 2 | 2 |
| SOS407 | Business Administration and Management | E | 2 | 0 | 0 | 2 | 2 |
| SOS409 | Plant Organization and Planning | E | 2 | 0 | 0 | 2 | 2 |
| SOS411 | Productivity Measurement and Analysis | E | 2 | 0 | 0 | 2 | 2 |
| SOS413 | Risk Management | E | 2 | 0 | 0 | 2 | 2 |
| SOS415 | Energy and Environment | E | 2 | 0 | 0 | 2 | 2 |

## OUR DEPARTMENTAL ACTIVITIES

As of the date of its establishment, within the framework of the protocol signed between Adıyaman University (ADYU) and Erdemoğlu Foundation, to students who prefer and enroll to our department; are given non-refundable scholarships of 4000 TL/month* (*updated yearly) during their education, and summer internship and applied engineering education (UME) opportunities are also provided in enterprises affiliated to the foundation, while employment is given priority after graduation.

In addition, within the framework of the "My Choice is Textile Engineering" protocol signed between the Presidency of Higher Education Institution (YÖK) and related institutions in 2019, the students of our department are given "non-refundable scholarships at certain rates of the minimum wage" throughout their education, and "guaranteed employment within the companies included in the protocol" for the first 5 years following their graduation.

With the opportunities offered within the scope of internship protocols signed with partner enterprises, both internships are offered every summer, and UME is performed during 8. semester by the students of our department to both become able to respond to the needs of the textile industry, and to gain industrial experience during their education.

In addition, within the scope of the Erasmus Student Exchange Program, in order for our students to improve themselves at the

international level, they are given the opportunity to be contracted universities in Europe for up to 10 months for education purposes and up to 4 months for internship activities.

Our department, has a total of 6 Organized Industrial Zones, 5 of which are in metropolitan cities (Gaziantep, Kahramanmaraş, Şanlıurfa, Malatya, Diyarbakır) in its close vicinity, and thus, is in a very advantageous location in terms of textile industry. Also, both our academic staffs' active roles in the management and commissions of the Southern Region Branch of the Chamber of Textile Engineers (TMO-GBŞ), and our department's Advisory Board, which consists of the representatives of partner companies operating in the sector at Adıyaman, enables an ever increasing and solidifying academia-industry cooperation, as well.

**ADYU FACULTY OF ENGINEERING**
**DEPARTMENT OF TEXTILE ENGINEERING**

**Address**

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