



ADIYAMAN UNIVERSITY
FACULTY OF ENGINEERING
DEPARTMENT OF ELECTRICAL-
ELECTRONICS ENGINEERING

PROMOTIONAL BOOKLET

2006

2025-2026

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Department

Adiyaman 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.

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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.

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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.

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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.

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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.

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COURSE CATALOG

MAN ÜNİVERSİTESİ

1. Year					
Code	Title	ECTS	WCH T+L/C	M/ S	La ng
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
ALİT101	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
ALİT102	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			

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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			

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4. Year					
Code	Title	ECTS	WCH T+L/C	M/S	La ng
7. Semester					
EEM401	Senior Design Project	2	0+2/1	Z	T
EEM469	Electrical 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 Engineering	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	La ng
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
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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
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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
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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	La ng
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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

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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.



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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.

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Adiyaman University Electronics and Software Society (IEEE Student Branch)

The Electronics and Software Society at Adiyaman 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 Adiyaman University.



IEEE ADYU introductory conference

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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" University Of Alba Iulia (Romania)

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

The Technical University of Varna (Varna, Bulgaria)

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

PHOTOS



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FACULTY OF ENGINEERING
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