



**ADIYAMAN UNIVERSITY
BESNİ ALİ ERDEMOĞLU VOCATIONAL
SCHOOL (MYO)
ELECTRONICS AND AUTOMATION
DEPARTMENT
MECHATRONICS PROGRAM
INTRODUCTORY BOOKLET**

2006

2026 - 2027

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Our Department

Adıyaman University, Electronics and Automation Department,
Mechatronics Program, started accepting students under the
Adıyaman University Besni Ali Erdemoğlu Vocational School in
the 2012-2013 academic year.

Acting Head of Department:

Doç. Dr. Zihni Alp ÇEVİK

Deputy Head of Department:

Asst. Prof. Dr. Nülifer GÜNDOĞAN

Academic Staff (Mechatronics Program):

Assoc. Prof. Dr. Zihni Alp ÇEVİK

Asst. Prof. Dr. Nülifer GÜNDOĞAN

Lecturer Dr. Esin BABALIK

Lecturer Abdulaziz CEYLAN

Department Secretary:

Yusuf DOĞAN

2. Mission & Vision

Mission

To create a contemporary education and training culture that produces and utilizes contemporary knowledge and technology, provides high-quality standard education, values university-industry cooperation, and is participatory, sharing, human-oriented, and possesses original values; to contribute to the national knowledge accumulation through research and projects in the fields of science and technology, and to train individuals who are professionally competent and respectful of societal values.

Vision

To provide vocational education and training at a contemporary level and high-quality standards; to form a qualified workforce that will contribute to the national economy; to respect universal values and adopt total quality management principles; to continuously monitor developments through university-industry cooperations, to guide developments with research opportunities, and to take its place among the leading vocational schools in our country and region.

3. Importance of the Electronics and Automation Department

In recent years, there have been very rapid developments in electronics, computer, and control systems. As a result, computer-controlled systems have become widespread in almost all fields. Today, mechanically operating systems are virtually non-existent. The application of artificial intelligence techniques has begun in design, production, maintenance, and repair. Therefore, the design, production, maintenance, and repair of advanced products have ceased to be a single subject. The combined use of mechanical, electrical and electronic, hydraulic and pneumatic, and computer technologies has become a necessity. As a result, Mechatronics has emerged as a brand new discipline. Mechatronics covers a very wide area, from home technologies to advanced medical devices, and from computer-controlled machine tools to robots.

Mechatronics application areas can be grouped under the following headings:

Control systems (position, level, pressure, and temperature
Besni Ali Erdemoğlu MYO Elektronik ve Otomasyon Bölümü Tanıtım Kitapçığı
2026-2027

control systems...)

Robots (transport and welding robots)

Industrial automation (barcode systems, production line devices)

Building automation (security systems, automatic climate control systems, automatic door systems)

Home appliances (washing machines and dishwashers)

Automotive (airbags, anti-lock braking systems (ABS)) and
Defense industry (mine-clearing robots, automatically guided vehicles)

Medical applications (magnetic resonance imaging (MRI), arthroscopic devices, ultrasonic probes, etc.)

Aerospace engineering (autopilots, unmanned aerial vehicles)

Image and sound processing (auto-focus devices, voice-controlled devices)

Manufacturing (CNC, NC)

Laser optical systems (barcode)

Smart measuring devices (calibration devices, test and measurement sensors)

Parallel to the rapid development in this field, the need for trained personnel and the employment gap continue to increase. The Mechatronics Program aims to meet this need by teaching mechatronic systems both theoretically and practically.

4. Why the Electronics and Automation Department?

The Mechatronics department is an interdisciplinary branch that expresses the combination of machine, electrical-electronic, and computer science fields, aiming to provide solutions to demands and problems in the design of precise and smart products. Students of this department will graduate as individuals who design electronic devices and communication systems consisting of mechanical, electrical, electronic, and optical components requiring all kinds of complex designs, develop production technologies, establish inter-system relationships and functions, and test them within valid physical rules. Our graduates usually carry out their work in closed areas such as factories, workshops, or workplaces. Since the work performed is not routine, they continuously solve problems and engage in design, which makes the profession dynamic and enjoyable.

Tasks such as the control of robot systems, the installation and maintenance of programmable control systems, the operation of computer-controlled machines, and working with computer

networks require high attention and systematic work. Parallel to these developments, the need for trained personnel and the employment gap continue to increase. Students receiving education in this program will take their place in the sector as qualified technicians who have a vision to keep up with the developments of the age, master the operation of new systems, and are open to continuous improvement.

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5. Employment Opportunities for Our Graduates

Vocational professionals trained in the field of mechatronics can work in public and private enterprises in the machinery, automotive, textile, defense industry, plastics, medical electronics, aircraft, energy, communication, and petrochemical sectors. Mechatronics is a developing sector in our country. For this reason, especially in regions where industry is developed, the chances of finding a job for professionally trained personnel are higher. Students graduating from the field of mechatronics can work in the aforementioned sectors in accordance with the competencies they have acquired in their chosen field/profession.

6. Our Highest and Lowest Placement Scores According to Central Placement

According to the ÖSYS (Student Selection and Placement System) placement results announced by the Presidency of Measurement, Selection and Placement Center in 2025, students were placed in our department with a minimum score of 263.10. All of the total 30 student quotas opened were filled. Currently, 90 students continue their education in our department.

Ders Kataloğumuz

1. Sınıf Güz						
Ders Kodu	Ders Adı	Z/S	T	U	K	A
AİİT 101	ATATÜRK İLKELERİ VE İNKILAP TARİHİ I	Z	2	0	2	2
MEK 101	MATEMATİK	Z	2	1	3	4
MEK 103	MEKATRONİĞİN TEMELLERİ	Z	3	0	3	4
MEK 105	TEKNİK VE MESLEK RESMİ	Z	2	1	3	4
MEK 107	DC DEVRE ANALİZİ	Z	3	1	4	4
MEK 109	ELEKTRİK ELEKTRONİK ÖLÇME	Z	2	1	3	3
TD 101	TÜRK DİLİ I	Z	2	0	2	2
YD 101	YABANCI DİL I	Z	2	0	2	3

TOPLAM AKTS :26 TOPLAM KREDİ :22

1. Sınıf Bahar						
Ders Kodu	Ders Adı	Z/S	T	U	K	A
AİİT 102	ATATÜRK İLKELERİ VE İNKILAP TARİHİ II	Z	2	0	2	2
MEK 102	MALZEME TEKNOLOJİSİ	Z	2	1	3	4
MEK 104	BİLGİSAYAR DESTEKLİ ÇİZİM 1	Z	3	1	4	4
MEK 106	SAYISAL ELEKTRONİK 1	Z	3	1	4	4
MEK 108	AC DEVRE ANALİZİ	Z	2	1	3	4
MEK 118	MİKRODENETLEYİCİLER	Z	3	1	4	4
TD 102	TÜRK DİLİ II	Z	2	0	2	2
YD 102	YABANCI DİL II	Z	2	0	2	3

TOPLAM AKTS :27 TOPLAM KREDİ :24

2. Sınıf Güz						
Ders Kodu	Ders Adı	Z/S	T	U	K	A
MEK 203	BİLGİSAYAR DESTEKLİ ELEKTRONİK DEVRE TASARIM	Z	2	1	3	3
MEK 205	TEMEL İMALAT İŞLEMLERİ	Z	3	1	4	4
MEK 207	MEKANİZMALAR	Z	2	1	3	3
MEK 209	ANALOG ELEKTRONİK	Z	2	1	3	4
MEK 213	ESNEK ÜRETİM SİSTEMLERİ	Z	3	1	4	4
MEK 227	PROGRAMLANABİLİR MANTIK DENETLEYİCİLER	Z	2	1	3	4
ST 203	STAJ-1	Z	0	0	0	4

TOPLAM AKTS :26 TOPLAM KREDİ :20

2. Sınıf Bahar						
Ders Kodu	Ders Adı	Z/S	T	U	K	A
MEK 202	HİDROLİK PNÖMATİK	Z	4	0	4	4
MEK 212	BİLGİSAYAR DESTEKLİ TAKIM TEZGAHLARI	Z	3	1	4	4
MEK 230	BİTİRME PROJESİ	Z	0	2	2	3
ST 204	STAJ-2	Z	0	0	2	4

TOPLAM AKTS :15 TOPLAM KREDİ :12

SEÇMELİ DERSLER

1. Sınıf Güz SEÇMELİ-1 (Grup Ders Adedi:0)						
Ders Kodu	Ders Adı	Z/S	T	U	K	A
ENF 101	TEMEL BİLGİ TEKNOLOJİLERİ	S	2	0	2	4
MEK 117	ALGORİTMA VE PROGRAMLAMA	S	2	1	3	4

TOPLAM AKTS :8 TOPLAM KREDİ :5

2. Sınıf Güz						
Ders Kodu	Ders Adı	Z/S	T	U	K	A
MEK 217	İŞ SAĞLIĞI VE GÜVENLİĞİ	S	2	0	2	2
MEK 219	AHİLİK VE MESLEK ETİK	S	2	0	2	2
MEK 221	ELEKTRİK MOTORLARI	S	2	0	2	2
MEK 225	KALİTE GÜVENCESİ VE STANDARTLARI	S	2	0	2	2

TOPLAM AKTS :8 TOPLAM KREDİ :8

2. Sınıf Güz SEÇMELİ 3 (1 DERS SEÇİLECEK) (Grup Ders Adedi:0)						
Ders Kodu	Ders Adı	Z/S	T	U	K	A
MEK 229	MİKRODENETLEYİCİ UYGULAMALARI	S	1	1	2	2

TOPLAM AKTS :2 TOPLAM KREDİ :2

SEÇMELİ DERSLER

1. Sınıf Bahar SEÇMELİ-2 (1 DERS SEÇİLECEK) (Grup Ders Adedi:0)						
Ders Kodu	Ders Adı	Z/S	T	U	K	A
MEK 114	MESLEKİ YABANCI DİL	S	3	0	3	3
MEK 116	MESLEKİ MATEMATİK	S	3	0	3	3
MEK 120	SENSÖRLER VE TRANSDÜSERLER	S	2	1	3	3

TOPLAM AKTS :9 TOPLAM KREDİ :9

2. Sınıf Bahar SEÇMELİ HAVUZU-4 (5 DERS SEÇİLECEK) (Grup Ders Adedi:0)						
Ders Kodu	Ders Adı	Z/S	T	U	K	A
MEK 206	PROSES KONTROL	S	2	1	3	3
MEK 208	ENDÜSTRİYEL ROBOTLAR	S	2	1	3	3
MEK 210	KONTROL SİSTEMLERİ	S	2	1	3	3
MEK 214	MATLAB UYGULAMALARI	S	2	1	3	3
MEK 216	ENDÜSTRİYEL AĞLAR	S	2	1	3	3
MEK 228	GİRİŞİMCİLİK	S	2	1	3	3
MEK 226	KAYNAK TEKNOLOJİSİ	S	2	1	3	3
MEK 232	SCADA SİSTEMLER	S	2	1	3	3
MEK 234	SAYISAL ELEKTRONİK 2	S	2	1	3	3

TOPLAM AKTS :27 TOPLAM KREDİ :27

* Rektörlük tarafından belirlenen seçmeli dersler için T+U/K → 2+0/2 dir.

HDS: Haftalık Ders Saati

T+U/K: Teorik + Uygulama/Kredi

AKTS: Avrupa Kredi Transfer

Sistemi **Z/S:** Zorunlu/Seçmeli

8. Our Activities in the Electronics and Automation Department

As the Electronics and Automation Department, we participate in the Project Fair organized at our University every year. In addition, we support students who will participate in Teknofest competitions and follow the developments in the field of Electronics and Automation. We have a project accepted within the scope of TUBITAK 2209-A. For the further development of the Mechatronics Program, abroad examinations are carried out by our department's teaching staff within the scope of accepted European Union projects.

With the support obtained from these projects, new devices and experiment sets have been purchased for the Mechatronics Program workshops. In this way, the quality of practical education in the Mechatronics Program has been further increased and raised to a higher level.

BESNİ ALİ ERDEMOĞLU VOCATIONAL SCHOOL

ELECTRONICS AND AUTOMATION DEPARTMENT

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