

Faculty of Electronics and Automation

<https://fea.tu-plovdiv.bg>

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General description: The Faculty of Electronics and Automation (FEA) was founded in 1986. Over the years, together with Bulgarian students, FEA provides higher engineering education also to foreign citizens from Turkey, Greece, the Republic of North Macedonia, Ukraine, Moldova, Lebanon, Libya, Palestine, Syria, Yemen, Jordan, Russia, Sri Lanka, Zambia, Nigeria, China and Mongolia.

About 650 students and doctoral students are trained annually. The academic staff and students of FEA actively use the Moodle e-learning platform (<https://fea.tu-plovdiv.bg/moodle>), which provides access to electronic resources and communication channels.

FEA has established good partnership with a number of companies at the regional and national level, which supports the education with the understanding that the students are their future employees.

There are several student clubs in the Faculty: "Robotics", "JavaGirls", "Electrical Engineering" and "Mountain Orienteering". They annually participate in national competitions and take top awards and prizes.

Structure – four departments:

- Department of Electronics – head of department: Prof. Tsvetana Grigorova, PhD
- Department of Electrical Engineering – head of department: Assoc. Prof. Stanimir Stefanov, PhD
- Department of Computer Systems and Technologies – head of department: Assoc. Prof. Dilyana Budakova, PhD
- Department of Control Systems – head of department: Assoc. Prof. DSc Borislav Penev, PhD

Degree programmes:

The Faculty of Electronics and Automation offers tuition in Bachelor and Master programmes of:

- Automation, information and control engineering
- Computer Systems and Technologies
- Design and Programming of Electronic Systems
- Electrical Engineering
- Industrial Engineering /in English language/

Education forms: full-time

PhD Programmes:

Professional field 5.3 Communication and computer technology

- Artificial Intelligence Systems
- Automated information processing and control systems
- Computer Systems, Complexes and Networks
- System programming

Professional field 5.2 Electrical engineering, electronics and automation

- Artificial Intelligence Systems
- Automation Control Theory
- Components and devices of automation and computing
- Cybernetics Principles and Methods Application in Various Fields of Science
- Electronic Circuits and Electronic Circuit Engineering Theory
- Electronic Convertors
- Electronisation (by fields)
- Industrial Electronics
- Microelectronics
- Production Automation (by fields)
- Quantum and Optical Electronics
- Robots and Manipulators

General characteristics of the education: The Faculty of Electronics and Automation provides higher engineering education in three professional fields accredited by the National Assessment and Accreditation Agency (NAAA): 5.2 "Electrical Engineering, Electronics and Automation"; 5.3 "Communication and Computer Equipment" and 5.13. "General Engineering".

Education at the faculty is based on three-stage educational model:

- General theoretical training – covers fundamental disciplines such as mathematics, physics, chemistry, electrical engineering, etc., which are the basis of engineering sciences, are studied;
- Special training - includes technical disciplines specific to each specialty, where some of the disciplines being chosen by the students themselves;
- Diploma project - students graduate after independently developing and defending a diploma thesis.

Students' opinion on the quality of education at FEA is surveyed after the end of each semester, both through the centralized university system and through FEA questionnaires.

- In addition, companies – partners of FEA, from the South-Central region and from the Trakia support training through:
- Ensuring selected lectures on disciplines from the curriculum by leading business/industry specialists;
- Conducting student internships and practices;
- Provision of student scholarships;
- Thesis project assignment and joint development of the project alongside the students;
- Modernization of the FEA laboratory base.

International cooperation: International contacts include universities and scientific organizations within the Erasmus+ program and international research projects. FEA has established good partnership with:

- Blekinge Institute of Technology, Sweden;
- Czech Technical University in Prague, Czech Republic;
- Brno University of Technology, Czech Republic;
- Technical University of Liberec, Czech Republic;
- University of Nis, Serbia;
- AGH University of Science and Technology – Полша;
- Firat University, Turkiye;
- Mitsubishi Electric Europe B.V. (Sp.Z.o.o.) – Poland;

Some current research projects:

FEA academic members are part of several projects as follows (as of December 2024):

- EU – COST action, CA19121 „Network on Privacy-aware Audio- and Video-based Applications for Active and Assisted Living (GoodBrother)“;
- BG-RRP-2.004-0005 "Improving research capacity and quality for international recognition and sustainability of TU-Sofia"
- Grant Procedure BG05SFPR001-3.004, "Support for Development of Project-Based Doctoral Studies" (the EU "Education" Programme 2021–2027)
- Doctoral Students Supporting projects of Research and Development Sector (R&DS) of TU-Sofia.