Faculty of MECHANICAL AND INSTRUMENT ENGINEERING

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General description:

Structure – 6 departments**:**

- Mechanical and Instrument Engineering – head of department: Assoc. Prof. Eng. Angel Lengerov, PhD
- Mechanical Engineering Equipment and Technologies – head of department: Assoc. Prof. Eng. Iliya Chetrokov, PhD
- Transport and Aviation Equipment and Technologies – head of department: Assoc. Prof. Eng. Atanas Nachev, PhD
- Industrial Management – head of department: Assoc. Prof. Georgi Georgiev, PhD
- Mechanics – head of department: Assoc. Prof. Silvina Ilieva, PhD
- Mathematics, physics, chemistry – head of department: Assoc. Prof. Albena Pavlova, PhD

Degree programmes:

- Mechanical Engineering and Instrumentation– Bachelor's Degree
- Mechatronics – Bachelor's Degree
- Computer Aided Modeling and Mechanical Engineering Technologies – Bachelor's Degree
- Smart systems and artificial intelligence – Bachelor's Degree
- Mechanical Engineering Equipment and Technologies – Bachelor's Degree
- Transport Machinery And Technology – Bachelor's Degree
- Aeronautical Engineering – Bachelor's Degree
- Automotive Engineering – Bachelor's Degree
- Graphic Design and Printing – Bachelor's Degree
- Industrial Management – Bachelor's Degree
- Mechanical Engineering Equipment and Technologies – Master's degree
- Mechanical Engineering and Instrumentation – Master's degree
- Mechatronics – Bachelor's Degree – Master's degree
- Transport Machinery and Technology – Master's degree
- Aeronautical Engineering – Master's degree
- Graphic Design and Printing – Master's degree
- Technological Entrepreneurship – Master's degree

Education forms: full-time, part-time

- Mechanical Engineering and Instrumentation– Bachelor's Degree, full-time and part-time education
- Mechatronics – Bachelor's Degree, full-time and part-time education
- Computer Aided Modeling and Mechanical Engineering Technologies – Bachelor's Degree, full-time education
- Smart systems and artificial intelligence – Bachelor's Degree, full-time education
- Mechanical Engineering Equipment and Technologies – Bachelor's Degree, part-time education
- Transport Machinery And Technology – Bachelor's Degree, full-time education

- Aeronautical Engineering – Bachelor’s Degree, full-time education
- Automotive Engineering – Bachelor’s Degree, part-time education
- Graphic Design and Printing – Bachelor’s Degree, full-time education
- Industrial Management – Bachelor’s Degree, full-time education
- Mechanical Engineering Equipment and Technologies – Master's degree, full-time education
- Mechanical Engineering and Instrumentation – Master's degree, full-time education
- Mechatronics – Bachelor’s Degree – Master's degree, full-time education
- Transport Machinery and Technology – Master's degree, full-time education
- Aeronautical Engineering – Master's degree, full-time education
- Graphic Design and Printing – Master's degree, full-time education
- Technological Entrepreneurship – Master's degree, full-time education

General characteristics of the education:
The goal of education in the specialties of the Faculty of Mechanical Engineering is to enhance students professional knowledge, skills and habits besides to obtain a high-quality academic education in the professional orientation 5.1. Mechanical engineering, 5.5. Transport, Navigation and Aviation and 5.13. General Engineering. The education is carried out through modern programs, aligned with global trends in the development of the specialties, and is aimed at preparing bachelor's and master's degree engineers in the respective fields. Students acquire systematic, specialized knowledge in specific areas of their chosen specialty. The education in the specialties includes, in addition to the fundamental engineering sciences, many dedicated disciplines. It is conducted in modern lecture halls and laboratories equipped with the necessary laboratory and computer technology. Students also gain the required practical experience through internships and practical training at leading companies in the field, most of which are located in Plovdiv and the surrounding region.

International cooperation:
Erasmus+ agreements with Technische Universität Chemnitz, Rezekne-Latvia, Riga Technical University, etc.

Some current research projects:
1. BG-RRP-2.004-0005-3.1.10 Intelligent systems and technologies in transport and industry, national funding, supervisor Prof. Dr. Eng. Valyo Nikolov, e-mail: vnikolov@tu-plovdiv.bg (01.01.2023 - 30.06.2026)
2. KP-06-M67/1 Study of the tribological properties of new nickel-free piston aluminum-silicon alloys, national funding, supervisor Assoc. Prof. Dr. Eng. Boyan Dochev, e-mail: dochev@tu-plovdiv.bg (12.12.2022 - 12.12.2024)
3. BG05M2OP001-1.002-0023-C01 Competence Center "Intelligent Mechatronic, Eco- and Energy-Saving Systems and Technologies", BG05M2OP001-1.002-0023-C01, national funding, head Prof. Dr. Eng. Valyo Nikolov, e-mail: vnikolov@tu-plovdiv.bg (30.03.2018 - 30.11.2023)