

Code: 25,,Machine Elements”

ECTScredits: 6

Forms of assessments:Exam

Number of hours per week: 2+1+1)

Types of assessment: Exam - written with oral discussion

Department, providinginstruction on the discipline:

Department: *MECHANICS AND MACHINE ELEMENTS*

*FACULTY OF MECHANICAL ENGINEERING AND TECHNOLOGIES*

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Annotation:

- Students receive the first basic knowledge of engineering design and construction of mechanisms and machines.
- Modern methods of study, calculation and construction of basic types of general purpose machine elements and some of their most common structures are studied
- The reference data, which are necessary for the design according to the European and international norms, are accepted and are accepted as official Bulgarian standards, so the students receive the training corresponding to the training at the Technical University of the European Union.

Main issues of the syllabus content:

- Design stages. Types of loads.
- Efficiency criteria. Safety factor.
- Detachable joints.
- Non-detachable joints.
- Quasi-dismountable joints.
- Non-steered connectors.
- Managed connectors.
- Self-adaptive connectors.

Content presentation:

Lecture, Laboratory exercises