

Code: 27,,Machine elements”

ECTScredits: 5	Number of hours per week: 30+0_30
Forms of assessments:Exam	Types of assessment: Exam - test/quiz
Department, providinginstruction on the discipline: Department: <i>MECHANICS AND MACHINE ELEMENTS</i> <i>FACULTY OF MECHANICAL ENGINEERING AND TECHNOLOGIES</i>	

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**Annotation:**

Students obtain first knowledge in engineering design and construction of mechanisms and machines.

Modern methods are used to study / calculate, construct and / or select the machine components serving the rotary motion, as well as the elements of the gears.

**Main issues of the syllabus content:**

- Threaded joints Резбови
- Shaft-hub joints for torque transmission
- Couplings and clutches
- Axles and Shafts
- Sliding bearings
- Rolling contact bearings
- Gear drives
- Belt, Chain and Friction Drives

**Content presentation:**

Thestudymaterialistaughtinlecturesandlaboratoryexercises:

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Thelecturesexaminetheoreticalconstructsaswellastheconstructionalfeaturesrelated to theperformancecriteriaandthecalculation of thegeneralpurposemachinery.

- The laboratory work introduces the students with the means for experimental study of the work of the machine elements in laboratory conditions as well as the influence of certain geometric and operational parameters