

Title <b>FEM</b>	Code <b>10102252410102102744</b>
Field <b>Mechanical Engineering</b>	Year / Semester <b>2 / 4</b>
Specialty <b>Construction of machines and devices</b>	Course <b>elective</b>
Hours Lectures: - Classes: <b>8</b> Laboratory: - Projects / seminars: <b>8</b>	Number of credits <b>2</b>
	Language <b>polish</b>

**Lecturer:**

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**Status of the course in the study program:**

- Elective

**Assumptions and objectives of the course:**

- The basic of the Finite Element Method

**Contents of the course (course description):**

- The basis of the Finite Element Method. Description of geometry of models.  
Boundary conditions. Loads. Description of property of materials.  
Truss, beam, plane, shell, solid elements. Elements of I-st and II-nd order.

**Introductory courses and the required pre-knowledge:**

- Strength of the material from 1st cycle studies

**Courses form and teaching methods:**

- Lectures and projects

**Form and terms of complete the course - requirements and assessment methods:**

- Assessment of projects

**Basic Bibliography:**

**Additional Bibliography:**