

Title <b>(Maszyny i urządzenia technologiczne)</b>	Code <b>10102513510102202410</b>
Field <b>Mechatronics</b>	Year / Semester <b>3 / 5</b>
Specialty -	Course <b>core</b>
Hours Lectures: <b>1</b> Classes: -    Laboratory: <b>1</b> Projects / seminars: -	Number of credits <b>3</b>
	Language <b>polish</b>

**Lecturer:**

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

Course belonging to technical subjects groups.

**Assumptions and objectives of the course:**

The student should obtain knowledge of technological machine tools and NC machine tools construction and exploitation principles, and their kinematics chains, forming systems, drives and control systems.

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

Classification and comparison machine tools and NC machine tools. Technological machines drives (mains, feeds). Characteristics drivers and engines. General destinations machine tools. Joint machine tools, machine centres and machine tool lines. Machine tools for gears. Machines for erode forming. Technological machines development trend in aspect of electronic and numerical control development.

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

Basic knowledge from tooling with machine cutting, metal forming, mechanics and electrical engineering.

**Courses form and teaching methods:**

Lectures and laboratory.

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

Laboratory credit, written examination

**Basic Bibliography:**

**Additional Bibliography:**