

Title Diagnostics and monitoring manufacturing systems	Code 10102212610102203179
Field Mechanical Technology	Year / Semester 3 / 6
Specialty Mechanical engineering	Course elective
Hours Lectures: 1 Classes: - Laboratory: 1 Projects / seminars: -	Number of credits 3
	Language polish

Lecturer:

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Status of the course in the study program:

Optional course at the Faculty of Mechanical Engineering and Management.

Assumptions and objectives of the course:

Acquaint future engineers with technique of diagnostics and monitoring manufacturing systems.

Contents of the course (course description):

Essence of the diagnostics and monitoring manufacturing systems. Physical phenomena accompanying to the machining process as a source of process. Measuring of physical phenomena. Description of monitoring, control and automation system. Concluding methods. Design of automation system for some machining operations. Future trends of machining automation.

Introductory courses and the required pre-knowledge:

Basic knowledge from physics, machine tools and machining.

Courses form and teaching methods:

Lectures and laboratories.

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

Passing of the lectures and laboratory credit on the basis of reports and knowledge.

Basic Bibliography:

Additional Bibliography: