

Title <b>Visualization and supervision</b>	Code <b>10102214610102202069</b>
Field <b>Management and Production Engineering</b>	Year / Semester <b>3 / 6</b>
Specialty <b>Production Information Systems</b>	Course <b>elective</b>
Hours Lectures: <b>1</b> Classes: -    Laboratory: <b>1</b> Projects / seminars: -	Number of credits <b>4</b>
	Language <b>polish</b>

**Lecturer:**

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

Additional course at the Faculty of Mechanical Engineering and Management to the first degree studies of Management and Production Engineering.

**Assumptions and objectives of the course:**

Introduction to PLC techniques, principle of creation and applications of HMI interfaces.

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

Introduction to PLC controllers, including discreet and analog I/O, timer and counter functions. Introduction to Visualization systems, creating and managing user screens, typical interface objects, creating and managing of variables, usage of alarm and event techniques. Real time and historical trends. Networked systems.

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

Basic knowledge of automation.

**Courses form and teaching methods:**

Lectures, supported by transparencies and multimedia presentations.

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

Examination test. Simple practical project.

**Basic Bibliography:**

**Additional Bibliography:**