Title	Code
Electromagnetic Compatibility	**1010325231010320446**
Field: **Electrical Engineering**	Year / Semester: **2 / 3**
Specialty: **-**	Course: **core**
Hours: Lectures: **1** Classes: **-** Laboratory: **1** Projects / seminars: **-**	Number of credits: **4**
	Language: **polish**

Lecturer:

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Faculty:

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Status of the course in the study program:

Obligatory course, Electrical Engineering Faculty, Field: Electrical Engineering, Extramural Masters Studies

Assumptions and objectives of the course:

Student should obtain knowledge and deep understanding of EMC principles. He/She should be able to solve simple problems associated with EMC simulation.

Contents of the course (course description):

ntroduction to electromagnetic compatibility (EMC), definitions, units. Fundamentals of electromagnetics and signal analysis. Natural and man-made sources of electromagnetic interference (EMI), classification and parameters of electromagnetic disturbances. Mechanism of propagation of electromagnetic disturbances, EM coupling process, electromagnetic interaction with electric devices and systems. Electromagnetic interference on environment. EMI mitigation methods and devices. EMC simulation.

Introductory courses and the required pre-knowledge:

Theoretical Electrotechnics.

Courses form and teaching methods:

Lectures supported by transparencies.

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

Examination at the end of the semester.

Basic Bibliography:

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Additional Bibliography:

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