

**DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND
TECHNOLOGY**

SUPERVISOR DECLARING/CONDUCTING COURSE: prof. Artur Wymyslowski
DEPARTMENT:
SCIENTIFIC DISCIPLINE:

COURSE CARD

Course name in Polish: Najnowsze kierunki badań w dyscyplinie AEE

Course name in English: The latest research directions in AEE discipline

Course language: English

The course is intended for all PhD students: YES

- ~~1) BASIC COURSE~~
- 2) SPECIALIST COURSE
- ~~3) SEMINAR~~
- 4) HUMANISTIC COURSE
- ~~5) LANGUAGE~~
- ~~6) RESEARCH SKILLS~~

Subject code: AEQ100233W

* delete as applicable

	Lecture	Foreign language course	Seminar	Mixed forms
Number of hours of organized classes in university (ZZU)	30			
Grading	Pass	Exam	Oral presentation	Exam, inspection, evaluation classes

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES

1. Basic knowldwge on mathematics and physics
2. Basic knowledge on automation, electronics and electrical enegineering
3. English language

COURSE OBJECTIVES

- C1 Acquainting PhDstudents with the latest research directions in the discipline of automation, electronics and electrical engineering
- C2 Acquainting PhD students with the scientific and research laboratories available at the University as well as Its technological and measurement possibilities
- C3 Conducting an interdisciplinary discussion

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PROGRAM CONTENTS

Form of classes		Number of hours
Le.1	Introduction to the lecture activities	2
Le.2	Department of Acoustics, Multimedia and Signal Processing	2
Le.3	Department of Cybernetics and Robotics	2
Le.4	Department of Electronic and Photonic Metrology	2
Le.5	Department of Field Theory, Electronic Circuits and Optoelectronics	2
Le.6	Summary and interdisciplinary discussion	2
Le.7	Department of Electrical Engineering Fundamentals	2
Le.8	Department of Electrical Power Engineering	2
Le.9	Department of Electrical Machines, Drives and Measurements	2
Le.10	Summary and interdisciplinary discussion	2
Le.11	Department of Microelectronics and Nanotechnology	2
Le.12	Department of Microsystems	2
Le.13	Department of Nanometrology	2
Le.14	Summary and interdisciplinary discussion	2
Le.15	Final pass lecture	2
Total hours		30

TEACHING TOOLS USED

N1. Multimedia presentations
N2. Materials uploaded to the ePortal PWr portal

ACHIEVED SUBJECT LEARNING OUTCOMES

Type of learning outcome	Code of learning outcome	Assessment of learning outcome
Knowledge	P8S_WG	
Knowledge	P8S_WK	

PRIMARY AND SECONDARY LITERATURE

PRIMARY LITERATURE:

[1] Literature provided and made available by the teacher.

SECONDARY LITERATURE:

[1] Multimedia presentations placed at ePortal PWR platform

SUBJECT SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)

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