

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

**SUPERVISOR/TEAM/ DECLARING/CONDUCTING COURSE: Mariusz Ptak**  
**DEPARTMENT: Mechanical Department**  
**SCIENTIFIC DISCIPLINE: Mechanical Engineering**

**COURSE CARD**

**Course name in Polish:** Najnowsze kierunki badań w inżynierii mechanicznej

**Course name in English:** The latest research directions in mechanical engineering

**Course language:** ~~Polish~~/ English

**The course is intended for all PhD students:** ~~YES~~ / NO (mechanical engineering)

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

**Subject code:** MEQ100258W

\* delete as applicable

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

**PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES**

1. Knowledge of a given discipline at the second level of studies.

**COURSE OBJECTIVES**

- C1 To acquire the state of the art in the field of mechanical engineering
- C2 To gain skills of scientific cooperation in research teams, including international cooperation.
- C3 To gain skill required to work in interdisciplinary groups.

**PROGRAM CONTENTS**

Form of classes		Number of hours
1	Introduction to the course	2

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

2	Invited speaker talk	2
3	Invited speaker talk	2
4	Invited speaker talk	2
5	Invited speaker talk	2
6	Invited speaker talk	2
7	Invited speaker talk	2
8	Invited speaker talk	2
9	Invited speaker talk	2
10	Invited speaker talk	2
11	Invited speaker talk	2
12	Invited speaker talk	2
13	Invited speaker talk	2
14	Invited speaker talk	2
15	Test regarding the presented information	2
	Total hours	30

<b>TEACHING TOOLS USED</b>
N1. Lecture N2. Presentation N3. Discussion N4. Self-work

<b>ACHIEVED SUBJECT LEARNING OUTCOMES</b>		
Type of learning outcome	Code of learning outcome	Assessment of learning outcome
Knowledge	P8S_WG	Presentation, participation in discussion
Knowledge	P8S_WK	Presentation, participation in discussion

<b>PRIMARY LITERATURE</b>
<b><u>PRIMARY LITERATURE:</u></b> To be given by invited speakers according to their field of expertise in mechanical engineering.
<b>SUBJECT SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)</b> <b>Mariusz Ptak (mariusz.ptak@pwr.edu.pl)</b>