

SUPERVISOR/TEAM/ DECLARING/CONDUCTING COURSE: Tadeusz Smolnicki
DEPARTMENT: Mechanical Department
SCIENTIFIC DISCIPLINE: Mechanical Engineering

COURSE CARD

Course name in Polish: Inżynieria mechaniczna/Seminarium

Course name in English: Mechanical engineering/Seminar

Course language: Polish

The course is intended for all PhD students: YES / NO

- 1) ~~basic course~~
- 2) ~~specialist course~~
- 3) seminar
- 4) ~~humanistic course~~
- 5) ~~language~~
- 6) ~~research skills~~

Subject code: MEQ100202S

| | Lecture | Foreign Language Course | Seminar | Mixed forms Seminarium |
|--|---------|-------------------------|---------|------------------------|
| Number of hours of organized classes in university (ZZU) | | | 15 | |

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. A student has completed master's studies at the Faculty of Mechanical Engineering or a related one.
2. A student has knowledge, skills and competencies resulting from the implementation of Mechanics courses such as: Technical, Strength of Materials I and II, Mathematical analysis I, Algebra with geometry analytical, Physics.
3. A student has completed major courses (alternatively, depending on the planned topic of the dissertation PhD thesis) in the field of mechanical technologies, mechanical structures and engineering material.

COURSE OBJECTIVES

- C1. Acquiring the ability to formulate a goal, thesis, tasks of crucial importance, methods solving the problem, conclusions and suggestions for further activities (after the doctorate),
- C2. The ability to plan and present the results of your research.
- C3. The ability to discuss and collaborate based on the presented works of others PhD students.

| Seminarium | | Number of hours |
|-------------------|---|------------------------|
| Se1 | Presentation of work progress by each doctoral student in the conference mode with the use of PowerPoint. | |
| Se2 | Presentation of "own" laboratory and technical equipment | |
| Se3 | Discussion of own results and those achieved by other seminar participants | |
| ... | | |
| Total | | 15 |

| TEACHING TOOLS USED |
|---|
| N1. Conference presentation with the use of slides and PowerPoint package and discussion. N2. Demonstration of laboratory equipment for own research. N3. Own work: literature research to present state of the art and cutting edge research in the field undertaken in the dissertation. N 4. Own work: preparing a presentation |

| ACHIEVED SUBJECT LEARNING OUTCOMES | | |
|---|--------------------------|---|
| Type of learning outcome | Code of learning outcome | Assessment of learning outcome |
| Knowledge | P8S_WG | Report, participation in discussion |
| Knowledge | P8S_WK | Report, participation in discussion |
| Skills | P8S_UW | Report, participation in discussion |
| Skills | P8S_UO | Report, participation in discussion |
| Skills | P8S_UU | Report, participation in discussion |
| Social competence | P8S_KO | Presentation, participation in discussion |
| Social competence | P8S_KR | Presentation, participation in discussion |

| Supervisor |
|---|
| Tadeusz Smolnicki, tadeusz.smolnicki@pwr.edu.pl |