



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Proseminar [S2MiBP1E-PE>PRO]

Course

Field of study

Mechanical and Automotive Engineering

Year/Semester

1/2

Area of study (specialization)

Product Engineering

Profile of study

general academic

Level of study

second-cycle

Course offered in

english

Form of study

full-time

Requirements

compulsory

Number of hours

Lecture

15

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

15

Number of credit points

2,00

Coordinators

prof. dr hab. inż. Zbigniew Kłos
zbigniew.klos@put.poznan.pl

Lecturers

Prerequisites

KNOWLEDGE: Student has the fundamental knowledge from his/her field of study, specialization, preliminary seminar and area of diploma work **SKILLS:** Student possesses ability of integrating and interpreting obtained information, drawing the conclusions, formulating and justifying the opinions **SOCIAL COMPETENCES:** Student has the consciousness of the validity of different form of communication, especially in engineering environment.

Course objective

Acquaintance the students with fundamental principles of preparing the written elaborations, structuring the research work and monitoring of progress of diploma work preparations and development.

Course-related learning outcomes

Knowledge:

Has a basic knowledge of quality management systems.

Has basic knowledge about selected technologies of machine works in agriculture, construction, transport, food industry, etc.

Has extended knowledge of the life cycle of machines, the principles of operation of working machines

and destructive processes occurring during operation, such as tribological wear, corrosion, surface fatigue and volumetric aging of the material.

Skills:

He can design the technology of exploitation of a selected machine with a high degree of complexity. He can estimate the cost of making a working machine or a vehicle with a high degree of complexity from a selected group of machines.

He is able to independently plan and implement his own learning throughout life and direct others in this regard.

Social competences:

He is ready to critically assess his knowledge and received content.

Is ready to recognize the importance of knowledge in solving cognitive and practical problems and to consult experts in case of difficulties in solving the problem on its own.

Is ready to fulfill professional roles responsibly, taking into account changing social needs, including:

- developing the professional achievements,
- maintaining the ethos of the profession,
- observing and developing the rules of professional ethics and acting towards the observance of these rules.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Control test

Programme content

Publication forms used for engineering and scientific works presentation and reporting. Definition of diploma work. Structure and forms of bachelor engineering diploma work. Presentation and discussion about elaboration of main parts of diploma works. Editing rules of diploma works. Analysis of diploma works based on cases. Preparation of ppt presentation of diploma works thesis. Live presentations of progress in diploma work realization.

Teaching methods

Lecture with multi-media presentation

Bibliography

Basic:

1. Undergraduate certificates and diplomas. Institute of Continuing Education, University of Cambridge Press, Cambridge 2017

Additional:

1. Mammela , How to Get a PhD. Methods and practical hints [in:] Proceedings of III Interdisciplinary Technical Technical Conference of Young Scientists INTERTECH, Poznan University of Technology, Poznan 2010

Breakdown of average student's workload

| | Hours | ECTS |
|---|-------|------|
| Total workload | 45 | 2,00 |
| Classes requiring direct contact with the teacher | 30 | 1,00 |
| Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation) | 15 | 1,00 |