COURSE DESCRIPTION CARD - SYLLABUS

Course name
Diploma seminar

Course

Field of study
Mathematics in Technology
Area of study (specialization)
Modelling in Technology
Level of study
First-cycle studies
Form of study
full-time

Year/Semester
3 / 6
Profile of study
general academic
Course offered in
Polish
Requirements
compulsory

Number of hours

Lecture
0
Laboratory classes
0
Other (e.g. online)
0
Tutorials
0
Projects/seminars
15

Number of credit points

4

Lecturers

Responsible for the course/lecturer:
dr inż. Zbigniew Krawiecki

email: zbigniew.krawiecki@put.poznan.pl

tel. 616652546

Faculty of Control, Robotics and Electrical Engineering

ul. Piotrowo 3A, 60-965 Poznań

Responsible for the course/lecturer:
dr Zbigniew Walczak

email: zbigniew.walczak@put.poznan.pl

tel. 616652812

Faculty of Control, Robotics and Electrical Engineering

ul. Piotrowo 3A, 60-965 Poznań

Prerequisites

Student has basic knowledge within the scope of subjects included in the programme of the specialization. Student has basic knowledge accumulated during studies in the field of Mathematics in technology. Student has ability to carry out effective self-study in the field of the chosen field of study and chosen specialization. Ability to work in a team and awareness of the necessity to broaden their knowledge and skills.

Course objective

Learning about selected issues regarding the collection of the necessary materials and rules for the preparation of engineering thesis. Learning the rules of conducting research and editing the diploma thesis

Course-related learning outcomes

Knowledge

The student has the extended knowledge related to the investigated topic of the dissertation [K_W01(P6S_WG), K_W02 (P6S_WG), K_W04 (P6S_WG)]

The student knows the latest development trends in technology based on professional literature [K_W11 (P6S_WG)]

The Student has knowledge of the principles of writing studies and editing text, knows and understands the basic concepts and principles in the field of intellectual property protection, among others of copyright. [K_W15 (P6S_WK)]

Skills

Is able to use printed and electronic literature sources, integrate the acquired information and make their interpretation and draw conclusions [K_U06 (P6S_UW)], K_U10 (P6S_UW), K_U13 (P6S_UK]

Can work individually and in a team, can estimate the time needed to accomplish the tasks provided for in the diploma thesis [K_U12 (P6S_UK)]

Has the skills of self-education to improve professional competence in the field of the chosen field of study and specialization [K_U15 (P6S_UU)]

Social competences

Students awareness of the value of their knowledge and work, and also the readiness of submitting to the principles of the work in the team cooperating in the range of realized tasks [K_K01(P6S_KK), K_K02(P6S_KK), K_K05 (P6S_KR)]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Knowledge and skills acquired as part of the seminar classes are verified by:

- observation and assessment of class activity, especially during discussions on analyzed issues

- assessment of the content and presentation form of the overall topic of engineering work

- observation and assessment of student work regularity.

Programme content

Definition and essence of the diploma thesis, including team work and its connection with the provisions of study regulations of Poznan University of Technology. Discussion of the thematic scope of engineering theses for the field of energy. Rules for the implementation of works, individual consultations and the use of literature resources. Guidelines and recommendations for editing engineering works (document formatting, graphic elements, document correction). Principles of preparing the presentation of the thesis and preliminary discussing how to implement the selected topic (as part of the course, students prepare one paper on the issues raised in their thesis). Discussing the principles of citation as well as copyright and related law when writing theses.

Teaching methods

Multimedia presentation supplemented with comments and examples given on the board, analysis /discussion of various methods (including unconventional) solutions of examplary problems and specific problems indicated in the topics of theses of individual students.

Bibliography

Basic

1. Bibliography on the subject of the diploma thesis recommended by the supervisor

2. Author's vademecum, recommendations for the preparation of publications prepared by the Poznan University of Technology Publishing House.

3. Detailed guidelines for editing the diploma thesis developed at the promoter institute.

4. Specialist literature (books, articles, conference materials, technical brochures)

5. Lexicons, encyclopedias, technical guides, dictionaries

Additional

1. Bibliography found by the student in printed and electronic form

2. Sample, master diploma thesis

Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,0
Classes requiring direct contact with the teacher	15	0,5
Student's own work (literature studies, preparation for project classes ~~laboratory classes/tutorials, preparation for tests/exam~~, presentation/project preparation) [1]	85	3,5

[1] delete or add other activities as appropriate