COURSE DESCRIPTION CARD - SYLLABUS

Course name
Pre-graduade seminar [S2IBio1-BiIW>SP]

Course

Field of study
Biomedical Engineering

Year/Semester
1/2

Area of study (specialization)
Bionics and Virtual Engineering

Profile of study
general academic

Level of study
second-cycle

Course offered in
Polish

Form of study
full-time

Requirements
compulsory

Number of hours

Lecture
0

Laboratory classes
0

Other
0

Tutorials
0

Projects/seminars
15

Number of credit points

1,00

Coordinators

dr inż. Jakub Grabski
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Lecturers

Prerequisites

Knowledge and skills included in the scope of studies in the field of biomedical engineering

Course objective

Preparing the student for independent and responsible functioning in the CAD / CAM environment. Acquiring the ability to scientifically develop a topic, prepare a report, execute and document the project. To acquaint the student with the basic principles of publishing scientific research.

Course-related learning outcomes

Knowledge:
Corresponding to the course completed.

Skills:
1. The student is able to obtain information from literature, databases and other properly selected sources, also in English or another foreign language recognized as the language of international communication in the field of study; is able to integrate the obtained information, make its interpretation and critical evaluation, as well as draw conclusions and formulate and exhaustively justify

opinions. K2_U01
2. The student is able to work individually and in a team, use information and communication techniques appropriate to the implementation of tasks, communicate using various techniques in the team and in the environment, also in English or another foreign language recognized as the language of international communication in the field of mechanics and machine construction. K2_U02
3.The student is able to prepare a scientific study in Polish and a short scientific report in a foreign language, considered basic for the fields of science and scientific disciplines relevant to mechanics and machine construction, presenting the results of their own scientific research; is able to prepare and present in Polish and foreign languages an oral presentation on specific issues in the field of mechanics and machine construction. K2_U03
4. The student is able to define the directions of further learning and implement the process of self-education and direct others in this area K2_U04

Social competences:
1. The student is able to set priorities for the implementation of the tasks set by himself or others. K_K04

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Learning outcomes presented above are verified as follows:
Oral and written tests. Individual assessment of completed projects.
Test for:
- level of knowledge,
- application of knowledge,
- potential problem-solving skills.

Programme content

Topics of diploma theses carring out by students, questions for diploma exam.

Course topics

The diploma thesis is a summary of the study and an indication of the student"s competences to solve technical problems using the information provided to students during course classes.
The topics of the work are as far as possible related to the topic of research work of the Institute"s employees.
The topic of work may also result from the needs of the industry where the graduate intends to find employment.
The work should meet the requirements of scientific studies, i.e. it should contain elements of a new approach to the topic, refer to the current (literature) state of the art in the field it concerns, present assumptions and theoretical foundations, methodically developed results and correct inference.
The presentation of the topic and method of solution must be clear and logical, and the language of the work precise.

Teaching methods

none

Bibliography

Basic
1. Bibliography on the subject of work.
2. Wojciechowska R., Przewodnik metodyczny pisania pracy dyplomowej, Wydawca: Difin, ISBN: 978-83-7641-224-5, 2010
3. Sydor M., Wskazówki dla piszących prace dyplomowe, Wydawnictwo Uniwersytetu Przyrodniczego W Poznaniu, 2014.
Additional
2. https://www.jou.ufl.edu/grad/forms/Guidelines-for-writing-thesis-or-dissertation.pdf

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,00
Classes requiring direct contact with the teacher	15	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	10	0,50