



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar

Course

Field of study

Biomedical engineering

Area of study (specialization)

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

2/3

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

30

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

prof. Ewa STACHOWSKA

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Faculty of Mechanical Engineering

ul. Piotrowo 3, 60-965 Poznań

dr hab. inż. Jacek Buśkiewicz

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tel. 61 665 26 19



Instytut Mechaniki Stosowanej

Responsible for the course/lecturer:

Wydział Inżynierii Mechanicznej

ul. Jana Pawła II 24, 60-965 Poznań

Prerequisites

Previous, basic knowledge of studies in the field of biomedical engineering

Course objective

Ongoing exchange of opinions and assessments regarding the progress in the diploma thesis. Developing the ability to document the results of your own work: the proper structure of the diploma thesis and its substantive and linguistic correctness. Exercises in presenting fragments of the results of own work. Preparation for the thesis and for the final examination. To acquaint the student with the basic issues related to writing scientific papers.

Course-related learning outcomes

Knowledge

The student has in-depth knowledge of studying and integrating scientific and technical information on the border of various research fields.

He knows the basic tools to conduct scientific research in the field of biomedical engineering.

Skills

The student is able to select and properly use literature sources for the problem being the subject of the thesis, carrying out a critical analysis of available information sources.

He can prepare a scientific study in Polish, presenting the results of his own scientific research in the field of biomedical engineering.

Can prepare and present in Polish and English an oral presentation on specific issues in the field of biomedical engineering.

He can also take into account non-technical aspects in solving biomedical engineering tasks.

He can plan and carry out experiments, make their critical evaluation, use the applied methods of statistical analysis. Has computer modeling and simulation skills in biomedical engineering.

Social competences

He is able to expand knowledge through independent research of the scientific literature. Can exchange the acquired information in the research team. Can think and act creatively. Can set priorities for the implementation of a task set by himself or others.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:



Completion of the course with a numerical grade on the basis of papers on the progress of students' own research and selected issues in the diploma examination.

Programme content

Presentation of parts of master's theses and discussions.

Presentation of two selected topics in the field of issues binding on the diploma examination.

Teaching methods

Multimedia presentation, discussion.

Bibliography

Basic

Majchrzak J., Mendel T., *Metodyka pisania prac magisterskich i dyplomowych*. Wyd. Akademii Ekonomicznej, Poznań, 1995.

Sydor M., *Wskazówki dla piszących prace dyplomowe*, Wydawnictwo Uniwersytetu Przyrodniczego W Poznaniu, 2014.

Additional

Żółtowski B., Jedliński R., Jazon A., *Metodyka w okruchach. Seminarium dyplomowe. Metodyka pisania pracy dyplomowej*. Bydgoszcz, 1994.

Żółtowski B., *Seminarium dyplomowe - zasady pisania prac dyplomowych*, ATR, Bydgoszcz 1997.

M. Sobczyk, *Statystyka*, Warszawa PWN 2015

Breakdown of average student's workload

	Hours	ECTS
Total workload	75	3,0
Classes requiring direct contact with the teacher	50	2,0
Student's own work (literature studies, presentation preparation) 1	25	1,0

1 delete or add other activities as appropriate