



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar

### Course

Field of study

Biomedical Engineering

Area of study (specialization)

Medical and rehabilitation devices

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:

dr hab. inż. Jacek Buśkiewicz

email: jacek.buskiewicz@put.poznan.pl

tel. 61 665 26 19

Institute of Applied Mechanics

Faculty of Mechanical Engineering

ul. Jana Pawła II 24, 60-965 Poznań

Responsible for the course/lecturer:

prof. dr hab. Ewa Stachowska

email: ewa.stachowska@put.poznan.pl

tel. 61 665 3230

Instytut Technologii Mechanicznej

Wydział Inżynierii Mechanicznej

ul. Jana Pawła II 24, 60-965 Poznań

### Prerequisites

Students should have basic knowledge covering key issues in the field of the first cycle biomedical engineering.

### Course objective

Exchange of opinions and assessments on researches carried out as part of the diploma dissertation and on issues related to the course of studies applicable during the diploma examination. Familiarizing students with the process of editing a diploma thesis, ongoing supervision over the progress of the theses. Developing the ability to present the results of one's own work.



### Course-related learning outcomes

#### Knowledge

Students have extended knowledge from the scope of biomedical engineering and on the integration scientific and technical information on the borderline of different research fields.

Students know the basic tools for carrying out scientific research in the field of biomedical engineering.

#### Skills

Students are able to obtain and properly utilise information from literature to solve problems formulated in master's theses.

Students are able to prepare and present a concise oral presentation in Polish on the results of one's own studies.

Students are able to prepare and present an oral presentation in Polish on specific issues of biomedical engineering.

Students can properly utilise non-technical aspects for solving problems of biomedical engineering.

Students are able to plan and carry out experiments, computer simulations, interpret the obtained results and draw conclusions.

#### Social competences

Students is able to widen the knowledge by scientific literature research, exchange acquired informations with the research team. Students think and work creatively. Students can set priorities aimed at realising scientific problems.

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The knowledge is verified on the basis of the presentations of issues related to the diploma thesis and on the basis of the presentation of examination issues related to the course of study.

### Programme content

Presentation of issues related to the diploma theses and discussion .

Elaboration and presentation of the diploma exam issues related to the field of study.

### Teaching methods

Multimedia presentation

### 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 okrucinach. 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, preparation for tutorials, project preparation) <sup>1</sup>	25	1,0

<sup>1</sup> delete or add other activities as appropriate