



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Passing project

### Course

Field of study

Biomedical engineering

Area of study (specialization)

Construction and maintenance of biomedical devices

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

45

### Number of credit points

4

### Lecturers

Responsible for the course/lecturer:

prof. dr hab. inż. Michał Wieczorowski

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prof. dr hab. inż. Michał Wieczorowski

### Prerequisites

Basic knowledge from mechanics, construction, electronics, programming, material science, physics and chemistry, material processing technology, ability of logical thinking, use of information from library and internet, awareness of necessity to learn and gain new knowledge.

### Course objective

Gaining ability to solve problems individually and in groups regarding tasks from biomedical constructions, manufacturing and choice of materials

### Course-related learning outcomes

Knowledge

A student widens knowledge regarding manufacturing, construction and application of biomedical devices.

Skills

A student gains ability to solve tasks that are included in project.



Social competences

A student gains ability to plan and realize research regarding biomedical devices.

**Methods for verifying learning outcomes and assessment criteria**

Learning outcomes presented above are verified as follows:

A condition to pass the classes is a positive note from project

**Programme content**

Analysis of references regarding project

Elaboration of concept.

Elaboration and analysis of results.

**Teaching methods**

Project: solving practical issues, presentation of results.

**Bibliography**

Basic

1. Dobrzański L.A., Materiały inżynierskie i projektowanie materiałowe: podstawy nauki o materiałach i metaloznawstwo, WNT, Warszawa, 2006

Additional

**Breakdown of average student's workload**

	Hours	ECTS
Total workload	100	4,0
Classes requiring direct contact with the teacher	47	2,0
Student's own work (literature studies, preparation for classes, project preparation) <sup>1</sup>	53	2,0

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