



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Presentation and communication in technical projects

### Course

Field of study

Mechanical Engineering

Area of study (specialization)

Virtual Engineering

Level of study

II

Form of study

full time

Year/Semester

2/1

Profile of study

generally academic

Course offered in

Polish / English

Requirements

mandatory

Year/Semester

2/1

Profile of study

generally academic

Course offered in

Polish / English

Requirements

mandatory

### Number of hours

Lecture

15

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

0

### Number of credit points

1

### Lecturers

Responsible for the course/lecturer:

prof. dr hab. inż. Michał Nowak

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Wydział Inżynierii Mechanicznej

ul. Piotrowo 3, 60-965 Poznań

Responsible for the course/lecturer:

Responsible for the course/lecturer:

### Prerequisites

KNOWLEDGE: Basic knowledge in the field of mechanical design using CAD / CAM systems.



**SKILLS:** Ability to use computer systems.

Ability to use a basic CAD system

**SOCIAL COMPETENCES:** Understanding the need to learn and acquire new knowledge.

### **Course objective**

Presentation and communication in technical projects includes preparing students to communicate with the environment in order to provide information about the technical project and its entity. Students receive knowledge on how to provide information:

- in the form of an article (research paper, industrial application),
- in the form of a patent description,
- in the form of an application for funding for research and development or implementation works.

### **Course-related learning outcomes**

#### **Knowledge**

1. The student has structured knowledge about the preparation of a scientific article / implementation description.
2. The student has ordered knowledge about the preparation of a patent description.
3. The student has ordered knowledge about the preparation of an application for funding for research and development or implementation works.

#### **Skills**

1. The student can prepare a scientific article / implementation description.
2. Student can prepare a patent description.
3. Student is able to prepare an application for funding for research and development or implementation works.

#### **Social competences**

1. The student is able to properly set priorities for the implementation of themselves and others set task.

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

Learning outcomes presented above are verified as follows:

Individual assessment of completed tasks regarding:

- preparing an article (research paper, industrial application) about ongoing projects (this can be, for example, a transitional job),



- patent specification,
- preparing an application for funding for research and development or implementation works.

### Programme content

Subject:

On specific examples are discussed subsequent elements of the issues of presentation and communication in technical projects:

- discussion of the structure of the article depending on the content and purpose (research paper, industrial application),
- discussion of the editor's requirements (on a specific example of a publishing house),
- discussion of the elements of the patent application,
- familiarizing students with the description of the granted patent,
- discussion of the possibilities and procedure of applying for funding for research and development or implementation works,
- detailed discussion of the application for co-financing of research and development or implementation works on the example of the co-financed project.

### Teaching methods

Regular consultation of the progress of prepared studies.

### Bibliography

Basic

1. Siuda P., Wasylczyk P., Publikacje naukowe. Praktyczny poradnik dla studentów, doktorantów i nie tylko, Wydawnictwo Naukowe PWN, 2018
2. Redl G., Bogin L., Parczewski R., Jak skutecznie patentować [HYPERLINK "https://www.ncbr.gov.pl/fileadmin/user\\_upload/pUBLIKACJE/Ewaluacje"](https://www.ncbr.gov.pl/fileadmin/user_upload/pUBLIKACJE/Ewaluacje) [https://www.ncbr.gov.pl/fileadmin/user\\_upload/pUBLIKACJE/Ewaluacje\\_jak\\_skutecznie\\_patentowac.pdf](https://www.ncbr.gov.pl/fileadmin/user_upload/pUBLIKACJE/Ewaluacje_jak_skutecznie_patentowac.pdf)
3. Poradniki – Narodowe Centrum Badań I Rozwoju - <https://www.ncbr.gov.pl/o-centrum/publikacje/poradniki/>

Additional

1. Chlebus E., Techniki komputerowe CAx w inżynierii produkcji, WNT, 2000



### Breakdown of average student's workload

	Hours	ECTS
Total workload	15	1
Classes requiring direct contact with the teacher	15	1
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) 1	30	0

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1

☐ delete or add other activities as appropriate