



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Engineering drawing

### Course

Field of study

Electromobility

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

1/1

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

### Number of hours

Lecture

15

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

### Number of credit points

1

### Lecturers

Responsible for the course/lecturer:

Phd Eng. Krzysztof Kowalski

Responsible for the course/lecturer:

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Faculty of Control, Robotics and Electrical  
Engineering

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### Prerequisites

The student starting this course should have basic knowledge of planimetry and stereometry. The ability to use the acquired knowledge, methods and tools to solve typical engineering tasks.

### Course objective

Acquiring the skill of graphic representation of simple elements of technical constructions in two and three-dimensional systems. Learning the methods and principles of graphic representation of technical constructions.

### Course-related learning outcomes

Knowledge



Basic knowledge of mechanics, including vehicle dynamics; knows and understands the basic principles of graphic representation of structures in engineering applications.

#### Skills

He can prepare documentation of an engineering task in accordance with a given specification and using appropriate methods, techniques, tools and materials.

#### Social competences

Understands the importance of improving professional, personal and social competences; is aware that knowledge and skills in the field of electromobility are evolving rapidly.

Understands the importance of knowledge in solving problems in the field of electromobility; is aware of the necessity to use the knowledge of experts when solving engineering tasks beyond their own competences.

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

Learning outcomes presented above are verified as follows:

##### Lecture:

The knowledge acquired in the course of the lecture is verified during the exam, which consists of completing a project task to check the student's skills. Passing threshold: 50% of points.

#### Programme content

Basics of creating an engineering drawing and documentations in electrical issues. Standards and rules for describing the structure and creating documentation for a technical object. Principles of computer mapping of technical objects. Two and three-dimensional problems in the engineering drawings of technical construction. Graphical representation of machine parts, executive drawings.

#### Teaching methods

##### Lecture:

A lecture with a multimedia presentation supplemented with examples given on the blackboard, an interactive lecture with the formulation of questions to students. Additional teaching materials provided to students.

#### Bibliography

##### Basic

1. Dobrzański T., Rysunek techniczny maszynowy, WNT, W-wa 2019
2. Rysunek techniczny i rysunek maszynowy. Zbiór Polskich Norm

##### Additional

1. Fołęga P., Wojnar G., Czech P.; Zasady zapisu konstrukcji Maszyn, Wydawnictwo Politechniki Śląskiej, Gliwice 2016.



### Breakdown of average student's workload

	Hours	ECTS
Total workload	26	1,0
Classes requiring direct contact with the teacher	16	0,5
Student's own work (literature studies, preparation for tests) <sup>1</sup>	10	0,5

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