



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Graphic notation of construction [S1Elmob1>GZK1]

### Course

Field of study  
Electromobility

Year/Semester  
1/1

Area of study (specialization)  
–

Profile of study  
general academic

Level of study  
first-cycle

Course offered in  
Polish

Form of study  
full-time

Requirements  
compulsory

### Number of hours

Lecture  
15

Laboratory classes  
0

Other (e.g. online)  
0

Tutorials  
0

Projects/seminars  
0

### Number of credit points

1,00

### Coordinators

dr inż. Krzysztof Kowalski  
krzysztof.kowalski@put.poznan.pl

### Lecturers

dr inż. Krzysztof Kowalski  
krzysztof.kowalski@put.poznan.pl

### 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:

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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

Fundamentals of engineering drawing creation in electromechanical issues using CAD systems.

### Course topics

Standards and principles of construction description and creation of technical object documentation. Principles of computer representation of technical objects. Principles of creating technical documentation using AutoCAD. Two and three-dimensional issues in the recording of technical construction. Graphical representation of machine parts, manufacturing 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	28	1,00
Classes requiring direct contact with the teacher	15	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	13	0,50