



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Transitional work [S1MiTPM1>PP]

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### Course

Field of study

Materials and technologies for automotive industry

Year/Semester

3/6

Area of study (specialization)

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Profile of study

general academic

Level of study

first-cycle

Course offered in

Polish

Form of study

full-time

Requirements

compulsory

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### Number of hours

Lecture

0

Laboratory classes

0

Other

0

Tutorials

0

Projects/seminars

45

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### Number of credit points

3,00

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### Coordinators

Marek Nowak

### Lecturers

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### Prerequisites

Basic knowledge of materials science, physics and chemistry, material processing technology. Logical thinking, exploring of various sources of knowledge. Understanding of necessity of learning and acquisition of new knowledge.

### Course objective

Acquiring the ability to independently solve issues related to the production, selection and testing of materials in the automotive industry.

### Course-related learning outcomes

Knowledge:

1. The student expands his knowledge in the field of production, applications and research of materials in the automotive area.

Skills:

1. The student is able to retrieve information from literature, databases and other properly selected sources in the automotive area. The student acquires the ability to independently solve the issues that are the subject of the work.

2. He/she knows how to prepare and deliver an oral presentation on detailed issues in materials engineering, in particular focussing on materials and manufacturing technologies and methods of materials investigation.
3. He/she knows how to carry out critical analysis of functioning and assess existing technical solutions in the automotive area, in particular with reference to materials, technologies, research methods, selection of materials.

Social competences:

1. The student understands the need for lifelong learning. Student is able to properly prioritize the tasks to be performed.

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Projects: credit based on a positive evaluation of the transitional proje

### Programme content

Preparation of a written paper covering issues related to the field of study

### Course topics

Literature analysis concerning the topic of the work.  
 Development of own concept of the work.  
 Performance of literature analysis.  
 Development and presentation of the project.o

### Teaching methods

Projects: seminars - discussions on the presented transitional papers. Consultation on issues related to the subject of the project. Obtaining a positive grade for the prepared final project.

### Bibliography

Basic:

1. Honczarenko J, Zygmunt M., Poradnik dyplomanta, WUPS, Szczecin, 2000
2. Dobrzański L.A., Materiały inżynierskie i projektowanie materiałowe: podstawy nauki o materiałach i metaloznawstwo, WNT, Warszawa, 2006
3. Ashby M.F., Dobór materiałów w projektowaniu inżynierskim, WNT 1998

Additional:

1. Literature related to the subject matter of the study (textbooks, journals and other sources of content related to transient work)

### Breakdown of average student's workload

	Hours	ECTS
Total workload	75	3,00
Classes requiring direct contact with the teacher	45	2,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	30	1,00