



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Summary work-project

Course

Field of study

Construction and Exploitation of Means of Transport

Area of study (specialization)

Motor Vehicles

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

1/2

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

4

Number of credit points

5

Lecturers

Responsible for the course/lecturer:

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Responsible for the course/lecturer:

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Prerequisites

Knowledge: The student has a well-established knowledge of construction and operation engineering



and the methodology of designing cars and their components, legal requirements for motor vehicles, analysis, synthesis, modeling and testing of vehicle dynamics, as well as the functioning and methodology of using vehicle dynamics control system design tools.

Skills: The student is able to use the selected computer text editor and correctly uses the language in which the work is to be written. The student is able to selectively use the published scientific and research papers and knows how to use the tools to support the work at the master's level in the areas covered by the study program.

Social competences: The student is aware of the proper documentation and reliable presentation of the results of their own transitional work, complementary to the master's thesis, taking into account the copyrights of the source scientific and research works in the field of construction and operation.

Course objective

Preparing the student for independent work, synthesizing the entirety of the acquired knowledge in the field of construction or operation of motor vehicles, proper linking it with the future master's thesis and preparation of a written work on a given topic, in accordance with the applicable rules of written and graphic documentation of the results of master's thesis.

Course-related learning outcomes

Knowledge

1. Basic knowledge of methods of evaluating design or operational solutions and optimization of these solutions. Basics of knowledge of research methodology, analysis of results and inference.
2. Knowledge of the rules governing the preparation of written studies, extended knowledge of the issue presented in the transitional work, knowledge of the method of presenting one's own studies.

Skills

1. Analytical approach to the construction or operational problem to be solved and synthetic presentation of the obtained results. The ability to use the methods of valuation in practice, optimize design and operation solutions and research results.
2. Editing a written work on a given topic, in accordance with the applicable editorial rules and the rules for creating autonomous graphic objects in the form of sketches, drawings, diagrams and tables.

Social competences

1. Awareness of the necessity to preserve copyrights, displaying own contribution and taking into account the achievements of other authors in the task prepared with the characteristics of a master's thesis.
2. Awareness of the positive, future impact of the results of own work and the improvement of design and operational solutions of vehicles on the functioning of society.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Assessment of the written transitional work, in the form of a comprehensive and coherent study, having



the attributes of a thesis, taking into account the content-related, methodological and editorial evaluation criteria.

Programme content

1. Determining the detailed topic and title of the transitional work and its substantive scope, indicating the sources of literature searches; discussion of the work schedule, questions, comments and suggestions.
2. Individual discussion with the student on the structure of the work and collected materials; approval of the plan by a consultant conducting temporary work.
3. The most important principles of creating independent, comprehensive (holistic) studies and recording these solutions in the form of a coherent transitional work with a coherent structure.
4. Including in the work such elements as: topicality of the topic, genesis, purpose, as well as conclusions and summaries, bibliographic description of literature and principles of autonomy of graphic objects, the type of tables, technical drawings, sketches and charts.
5. Correction of substantively completed transitional work and its discussion, summary and evaluation.

Teaching methods

1. Publication and discussion of the individual topic of the transitional work in its formal, substantive and methodological aspect.
2. Discussion on the substantive and methodical side and timely implementation of the transitional work within the framework of the planned consultations and a summary of the task undertaken by the consulting lecturer.

Bibliography

Basic

1. Zenderowski R.: Technika pisania prac magisterskich i licencjackich. Wyd. CeDeWu, Warszawa, 2018.
2. Szelka J.: Vademecum wykonywania opracowań naukowych. Wyd. Uniwersytetu Zielonogórskiego, Zielona Góra, 2017.
3. Wójcik K.: Piszę akademicką pracę promocyjną – licencjacką, magisterską, doktorską (9 wydanie, uzupełnione i poprawione), Wyd. Wolters Kluwer, Warszawa, 2015.
4. Pułło A.: Prace magisterskie i licencjackie. Wyd. PWN, Warszawa, 2000.

Additional

1. Dirksen J.: Projektowanie metod dydaktycznych. Efektywna strategia edukacyjna. Wyd. Helion S.A., Gliwice, 2017.



2. Stępień B.: Zasady pisania tekstów naukowych (praca doktorska i artykuły). PWN, Warszawa, wyd. I – 2015, Wyd. II – 2017.
3. Zenderowski J.: Praca magisterska. Jak pisać i obronić? - wskazówki metodologiczne. Wydawnictwo Fachowe CeDeWu, Warszawa, 2007.
4. Boć J.: Jak pisać pracę magisterską? (konsultacja filologiczna J. Miodek). Wyd. Kolonia Limited, Wrocław, 2006.
5. Węglińska M.: Jak pisać pracę magisterską. Poradnik dla studentów. Oficyna Wydawnicza „Impuls”, Kraków, 2005.
6. Kolman R.: Zdobywanie wiedzy. Poradnik podnoszenia kwalifikacji. Oficyna Wydawnicza Brandt, Bydgoszcz, 2004.
7. Opoka E.: Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych. Wyd. Politechniki Śląskiej, Gliwice, 2003.
8. Literature from the substantive area covered by the subject of the summary work.

Breakdown of average student's workload

	Hours	ECTS
Total workload	120	5,0
Classes requiring direct contact with the teacher	20	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	100	4,0

¹ delete or add other activities as appropriate