POZNAN UNIVERSITY OF TECHNOLOGY



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS) pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name		
Diploma Seminar		
Course		
Field of study	Year/Semester	
Mechanical and Automotive Enginee	2/3	
Area of study (specialization)	Profile of study	
Rail vehicles		general academic
Level of study		Course offered in
Second-cycle studies		polish
Form of study		Requirements
full-time		elective
Number of hours		
Lecture	Laboratory classes	Other (e.g. online)
0	0	0
Tutorials	Projects/seminars	
0	30	
Number of credit points		
2		
Lecturers		
Responsible for the course/lecturer: prof. dr hab. inż. Franciszek Tomasze		Responsible for the course/lecturer:
email:		
franciszek.tomaszewski@put.pozna	n.pltel.	
61-665 2570		
Wydział Inżynierii Lądowej i Transpo	rtu	
ul. Piotrowo 3, 60-965 Poznań		
Prerequisites KNOWLEDGE: Knowledge of issues r	elated to the subjec	t of the master's thesis
SKILLS: Can use the scientific methoe conclusions	d in solving problem	s, carrying out experiments and making

SOCIAL COMPETENCES: Knows the limitations of own knowledge and skills; is able to precisely formulate questions, understands the need for further education



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Course objective

Broadening the knowledge and skills on the organization, conducting scientific and technical works and presenting the results of these works.

Course-related learning outcomes

Knowledge

Has extended knowledge of material strength in the field of nonlinear models, fracture and fatigue strength, calculations of statically indeterminate structures, structure stability.

Has a general knowledge of the types of research and methods of testing working machines with the use of modern measurement techniques and data acquisition.

He knows the main development trends in the field of mechanical engineering.

Skills

He can develop a technical description, offer and design documentation for a complex machine from a selected group of machines.

Can plan and carry out experimental research of specific processes taking place in machines and routine tests of a working machine or a vehicle from a selected group of machines.

Can communicate on specialist topics with a diverse audience.

Social competences

He is ready to critically assess his knowledge and received content.

Is ready to recognize the importance of knowledge in solving cognitive and practical problems and to consult experts in case of difficulties in solving the problem on its own.

It is ready to fulfill social obligations, inspire and organize activities for the benefit of the social environment.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows: credit

Programme content

General part: types of qualification works, including diploma theses, rules for their implementation, requirements for master's theses. Formulating a technical problem and thesis, study of literature, methodological part of the thesis, presentation of research results, development of observations i requests. Principles of work editing, editing support, development of graphic elements, preparation of the work for printing and duplication.

Specialist part: reporting of theses carried out by the authors

Teaching methods



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Lecture with multimedia presentation.

Bibliography

Basic

1. Leszek W. Badania empiryczne. Wyd. ITE, Radom 1997

2. Opoka E., Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych, Wyd. Politechniki Śląskiej, Gliwice 2003

3. Dobre obyczaje w nauce. Zbiór zasad i wytycznych (wyd. 3), Wyd. PAN Warszawa 2001

4. Zaczyński W.: Poradnik autora prac seminaryjnych, dyplomowych i magisterskich. Warszawa 1995

5. Urban S., Ładoński W., Jak napisać dobrą pracę magisterską, wyd. 4 uzup., Wyd. Akademia Ekonomiczna we Wrocławiu, Wrocław 2001

6. Wisłocki K., Metodologia i redakcja prac naukowych. Wydawnictwo Politechnik Poznańskiej, Poznań 2013.

Additional

1. Wojciechowska R., Przewodnik metodyczny pisania pracy dyplomowej. Wyd. DIFIN, 2010

2. Boć J., Jak pisać pracę magisterską, wyd. 4 popr., Wyd. Kolonia Wrocław, 2003

Breakdown of average student's workload

	Hours	ECTS
Total workload	60	2,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for	30	1,0
laboratory classes/tutorials, preparation for tests/exam, project		
preparation) ¹		

¹ delete or add other activities as appropriate