

University: University of Žilina		
Faculty: Faculty of Mechanical Engineering		
Course ID: 2Y037	Course name: Diploma Project (DP)	
Course obligation: Compulsory Completion:		
Profile course: - Core course: yes		
Form, extent and method of teaching activities:		
Number of classes per week in the form of lectures, laboratory exercises, seminars or clinical practice	Lectures: 10 classes Seminars: 0 classes Lab.exercises: 0 classes	
Methods by which the educational activity is delivered	Present form of education	
Applied educational activities and methods suitable for achieving learning outcomes	Presentation of the outputs of the thesis in front of the committee discussion: the student's discussion with the members of the commission in the context of the requirements for the graduate of the study program and the solved topic of the diploma thesis.	
Number of credits: 30		
Study workload: 300 hours; The total time requirement of the subject is 300 hours per semester - independent study and independent creative activity of the student.		
Recommended semester/term of study: summer, 2nd year		
Study degree: 2		
Required subsidiary courses: Prerequisites: term project Necessities: final project		
Course requirements: Continuous assessment / evaluation: Active participation. Final assessment /evaluation: Final rating: The state exam/defense of the final (diploma) thesis has a colloquial character. The defense of the final (diploma) thesis consists of: 1. presentation of work to students, 2. answers to the supervisor's and opponent's questions stated in the diploma thesis assessments, 3. colloquial debate (its content will be answers to other questions of the supervisor, the opponent and members of the examination committee).		
Resulting subject classification: Grade A: minimum 93 points Grade B: minimum 85 points Grade C: minimum 77 points Grade D: minimum 69 points Rating E: minimum 61 points FX rating: less than 61 points		
Forms and methods of assessment	Predetermined weight %	Area of knowledge, skills and competence

1 x final thesis	100 %	Professional knowledge, independent work with professional literature, data processing and analysis, practical skills, presentation skills.
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Course outcomes:

By completing the Diploma Project subject, the student proves that he is able to:

- use the acquired professional knowledge, knowledge and skills when choosing and using appropriate methods when solving the given thesis topic;
- creatively solve problems in new or unfamiliar conditions, in broader contexts beyond his field of study;
- demonstrate the ability to systemically solve the chosen topic of the diploma thesis,
- analyze a selected problem from the field of technical materials using mechanical tests, corrosion tests, fatigue tests, etc.; methods of evaluating structure and fracture surfaces; software tools in the field, etc.;
- develop alternative solutions to the given problem in a wider context beyond the field of study Mechanical Engineering with an emphasis on the area of the study program: technical materials
- integrate knowledge and formulate decisions in the form of an original and creative solution,
- present and defend the results of independent scientific work.

Course scheme:

The defense of the thesis within the state examinations consists of the following parts:

- presentation of the goals of the thesis;
- presentation of the results of the analysis of the current state of the solved problem;
- presentation of the design part of the work and the achieved results;
- evaluation of the diploma thesis by the supervisor and thesis opponent;
- the student's comments on the opponent's opinions;
- discussion on the presented diploma thesis;
- a colloquial debate in the field of knowledge of the field of study (its content will include answers to other questions of the supervisor, the opponent and members of the examination committee).

Literature:

Instruction language: English

Notes:

Course evaluation:

Total number of evaluated students:

A	B	C	D	E	FX
0.00 %	0.00 %	0,00 %	0.00 %	0,00 %	0.00 %

Course teachers:

Last updated: 2023-02-17

Approved by: