

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Diploma Seminar</b>		Code <b>1010651271010650467</b>
Field of study <b>Mechanical Engineering</b>	Profile of study (general academic, practical) <b>general academic</b>	Year /Semester <b>4 / 7</b>
Elective path/specialty <b>Virtual Design Engineering</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>obligatory</b>
Cycle of study: <b>First-cycle studies</b>	Form of study (full-time, part-time) <b>full-time</b>	
No. of hours Lecture: - Classes: - Laboratory: - Project/seminars: <b>1</b>		No. of credits <b>15</b>
Status of the course in the study program (Basic, major, other) <b>other</b>		(university-wide, from another field) <b>university-wide</b>
Education areas and fields of science and art <b>technical sciences</b>		ECTS distribution (number and %) <b>15 100%</b>
<b>Responsible for subject / lecturer:</b> dr hab. inż. Michał Nowak, prof. nadzw. email: Michal.Nowak@put.poznan.pl tel. 61 665 2041 Wydział Maszyn Roboczych i Transportu ul. Piotrowo 3 60-965 Poznań		<b>Responsible for subject / lecturer:</b> dr hab. inż. Michał Nowak, prof. nadzw. email: Michal.Nowak@put.poznan.pl tel. 61 665 2041 Wydział Maszyn Roboczych i Transportu ul. Piotrowo 3 60-965 Poznań
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	As for all students after completing the 5th semester of Faculty of Transport Engineering - Basic knowledge of computer systems.
2	<b>Skills</b>	As for all students after completing the 5th semester of Faculty of Transport Engineering - Ability to use computer systems.
3	<b>Social competencies</b>	As for all students after completing the 5th semester of Faculty of Transport Engineering - Ability to work in a team.
<b>Assumptions and objectives of the course:</b> The course goal is to prepare students for independent and responsible work in a CAD / CAM environment. Students elaborate the state of the art of a specific topic, prepare a project and the detailed.		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
1. The student knows the basic methods, techniques and numerical tools used to solve simple engineering tasks in the field of mechanics. - [M1_W07]		
2. The student has an ordered, theoretically founded general knowledge covering key issues in the field of computer mechanics - [M1_W03]		
<b>Skills:</b>		
1. The student is able to use CAD programs in the basic scope. - [M1_U03 ]		
2. The student can acquire information from literature, databases and other properly selected sources, also in English; can integrate the obtained information, make their interpretation and draw conclusions - [M1_U01]		
<b>Social competencies:</b>		
1. The student understands the need and knows the possibilities of continuous training. - [M1_K01]		
2. The student is able to properly determine the priorities for the tasks realization for himself and other members of the team. - [M1_K04]		
<b>Assessment methods of study outcomes</b>		
Presentation of projects during seminar.		
<b>Course description</b>		

<p>Students thesis can take the form of a virtual project, scientific elaboration of a problem, software development or the real construction.</p> <p>The work is a summary of the classes passed by students at the IWP engineering course.</p> <p>The themes of the works relate strictly to the subject of research carried out by the Chair's employees.</p> <p>The subject of work may also result from the needs of the industry in which the graduate intends to find employment.</p> <p>The thesis should meet the requirements for scientific publication, i.e. it should contain elements of a new approach to the topic, refer to the current (literature) state of the art in the area it concerns, present theoretical foundations and principles, methodologically developed results. The presentation of the topic and method of solution must be clear and logical and the language of work should be precise.</p>		
<p><b>Basic bibliography:</b></p> <ol style="list-style-type: none"> <li>1. Wojciechowska R., Przewodnik metodyczny pisania pracy dyplomowej, Wydawca: Difin, ISBN: 978-83-7641-224-5, 2010</li> <li>2. Bibliography of the thesis scientific area.</li> <li>3. Wisłocki K., Metodologia i redakcja prac naukowych, Wydawnictwo Politechniki Poznańskiej, 2013, ISBN 978-83-7775-283-8</li> </ol>		
<p><b>Additional bibliography:</b></p>		
<p><b>Result of average student's workload</b></p>		
<p><b>Activity</b></p>		<p><b>Time (working hours)</b></p>
1. Preparation of the thesis		400
2. Participation in seminar classes		15
3. Preparation of seminar presentations		45
<p><b>Student's workload</b></p>		
<p><b>Source of workload</b></p>	<p><b>hours</b></p>	<p><b>ECTS</b></p>
Total workload	450	15
Contact hours	15	1
Practical activities	15	1