

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Proseminar</b>		Code <b>1010612221010614114</b>
Field of study <b>Transport</b>	Profile of study (general academic, practical) <b>(brak)</b>	Year /Semester <b>1 / 2</b>
Elective path/specialty <b>Food Industry Machines and Refrigeration</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>obligatory</b>
Cycle of study: <b>Second-cycle studies</b>	Form of study (full-time, part-time) <b>full-time</b>	
No. of hours Lecture: <b>1</b> Classes: <b>-</b> Laboratory: <b>-</b> Project/seminars: <b>-</b>		No. of credits <b>1</b>
Status of the course in the study program (Basic, major, other) <b>(brak)</b>		(university-wide, from another field) <b>(brak)</b>
Education areas and fields of science and art		ECTS distribution (number and %)
<b>Responsible for subject / lecturer:</b>  prof. dr hab. inż. Stanisław Nosal email: stanislaw.nosal@put.poznan.pl tel. 665-5852 MRiT ul. Piotrowo 3, 60-695 Poznań		
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	Has knowledge of scientific and technical information sources and how to use them. Familiar with ethical principles applicable when writing a master's thesis (plagiarism).
2	<b>Skills</b>	Know how to use different sources of information.
3	<b>Social competencies</b>	Understand the need for continuing training.
<b>Assumptions and objectives of the course:</b> In addition to the knowledge and skills in the field of research and presentation of their results. Preparation for implementation of the thesis.		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b> 1. Has a basic knowledge of research methods. Know the criteria correctly formulated the research hypothesis, verification and rules of inference. - [K2A_W20]		
<b>Skills:</b> 1. Can collect the literature sources necessary for the implementation of the master's thesis. - [K2A_U08] 2. Know how to determine the purpose and the way of its implementation. - [K2A_U08]		
<b>Social competencies:</b> 1. Understand the need for lifelong learning. Is aware of the role of the social engineer. - [K2A_01]		
<b>Assessment methods of study outcomes</b>		
Deduction on the basis of a written test and a preliminary plan for the thesis.		
<b>Course description</b>		
The objectives of scientific cognition. The classification of the sciences. Research methods. Observation and experiment. Models and modeling. Formulation and verification of hypotheses. The formulation of conclusions. Scientific language: regularity, law, theories. Rules for writing scientific papers. Exam preparation master's degree.		

<b>Basic bibliography:</b>		
1. Leszek W. Badania empiryczne. Wyd. ITE, Radom 1997.		
2. Pytkowski W., Organizacja badań i ocena prac naukowych, PWN, Warszawa 1985		
3. Such J., Szcześniak M., Filozofia nauki, Wyd. Naukowe UAM, Poznań 2000.		
<b>Additional bibliography:</b>		
<b>Result of average student's workload</b>		
<b>Activity</b>	<b>Time (working hours)</b>	
1. Participation in the lecture	15	
2. Consultation	2	
3. Preparing to pass.	6	
4. Preparation for assessment	2	
<b>Student's workload</b>		
<b>Source of workload</b>	<b>hours</b>	<b>ECTS</b>
Total workload	25	1
Contact hours	19	1
Practical activities	0	0