

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Industrial Project		Code 1011101371011100503
Field of study Engineering Management - Full-time studies -	Profile of study (general academic, practical) general academic	Year /Semester 4 / 7
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) elective
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: - Classes: - Laboratory: - Project/seminars: 180		No. of credits 3
Status of the course in the study program (Basic, major, other) other		(university-wide, from another field) university-wide
Education areas and fields of science and art		ECTS distribution (number and %)
Responsible for subject / lecturer: tutor of the diploma thesis email: imie.nazwisko@put.poznan.pl, tel. (61) 665 3374 of Engineering Management ul. Strzelecka 11, 60-965 Poznań,		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Knowledge from the range of courses enclosed in the educational standard for the first-cycle study on Engineering Management.
2	Skills	Skills obtained during the educational process from the range of courses enclosed in the educational standard for the first-cycle study on Engineering Management.
3	Social competencies	Competences obtained during the educational process from the range of courses enclosed in the educational standard for the first-cycle study on Engineering Management.
Assumptions and objectives of the course: The course is aimed at valorization of the knowledge obtained during studies necessary for analyzing processes in major functional subsystems of the enterprise or institution and for designing necessary changes of these processes.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. basic knowledge on the life-cycle of social and technical systems - [K03-InzA_W01] 2. knows basic methods, techniques, instruments and materials applied for solving simple engineer tasks from the area of machine construction and application - [K04-InzA_W02] 3. knows typical industrial technologies and deeply knows technologies of machine construction and application - [K07-InzA_W05] 4. has the basic knowledge necessary for understanding non-technical conditions of the engineer activity and knows basic rules of safety at work applied in the machine construction industry - [K05-InzA_W03] 5. knows methods and instruments for designing organizational structures of management - [K1A_W10]		
Skills:		

<p>1. is able to plan and realize experiments, including measurements and virtual simulations, interpret obtained results and draw conclusions - [K01-lnzA_U1]</p> <p>2. is able to use analytic methods, simulations and experiments for the necessity of forming and solving engineer tasks - [K01-lnzA_U2]</p> <p>3. is able to form and solve engineer tasks with consideration of their system, social and technical , organizational, economical and non-technical aspects - [K01-lnzA_U3]</p> <p>4. is able to make a preliminary economic analysis for initiated engineer tasks - [K01-lnzA_U4]</p> <p>5. is able to make a critical analysis of technological processes of machine production and for the organization of production systems - [K01-lnzA_U5]</p> <p>6. is able to identify project tasks and to solve simple project topics from the range of machine construction and implementation - [K01-lnzA_U6]</p> <p>7. is able to apply typical methods for solving simple problems from the range of machine construction and implementation - [K01-lnzA_U7]</p> <p>8. is able to design a construction and a technology for simple parts or subsystems of machines and knows how to design the organization of production units in the first degree of complexity - [K01-lnzA_U8]</p>
Social competencies:
<p>1. is responsible for own work and ready to work in a team - [K1A_K02]</p> <p>2. notices cause-and-effect dependences in the realization of established objectives - [K1A_K03]</p> <p>3. is prepared for realizing business ventures and applies the system approach, with consideration of technical, economical, marketing, organizational, financial and legal aspects - [K1A_K07, K01-lnzA_K2]</p> <p>4. understands non-technical aspects and results of the engineer activity - [K01-lnzA_K1]</p>

Assessment methods of study outcomes		
<p>Ocena formująca: Bieżąca ocena propozycji zmian organizacyjnych przeprowadzona przez opiekuna pracy inżynierskiej. Ocena podsumowująca: Ocena przygotowanej przez dyplomanta prezentacji, stanu zaawansowania badań pracy dyplomowej i jej omówienie.</p>		
Course description		
<p>Forming assessment: Current evaluation of suggestions for organizational changes presented by the tutor of the diploma thesis. Final assessment: Evaluation of the presentation prepared by the student, progresses of the research on the thesis and discussion of it.</p>		
Basic bibliography:		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
1. Preparation of the industrial project	15	
2. student's own work	160	
3. Presentation and final assessment	5	
Student's workload		
Source of workload	hours	ECTS
Total workload	180	3
Contact hours	5	0
Practical activities	160	3