

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Engineering Entrepreneurship		Code 1010112111010115657
Field of study Civil Engineering	Profile of study (general academic, practical) (brak)	Year /Semester 1 / 1
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: Second-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 60 Classes: 15 Laboratory: - Project/seminars: 15		No. of credits 5
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 100 5% 100 5%
Responsible for subject / lecturer: dr hab. inż. Jerzy Paślawski, prof. nadzw. email: jerzy.paslowski@put.poznan.pl tel. +48616652113 Faculty of Civil and Environmental Engineering ul. Piotrowo 5 60-965 Poznań		Responsible for subject / lecturer: mgr inż. Piotr Nowotarski email: piotr.nowotarski@put.poznan.pl tel. 616652113 Faculty of Civil and Environmental Engineering ul. Piotrowo 5 60-965 Poznań
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Basic knowledge of production management in construction industry
2	Skills	The ability to establish advantages and disadvantages of operate their own business in the construction industry
3	Social competencies	Teamwork
Assumptions and objectives of the course: - management of SMEs in the construction industry with an emphasis on operational management - fundamnetal knowledge in the field of quality management - knowledge of the basic principles of the market		
Study outcomes and reference to the educational results for a field of study		
Knowledge: 1. Student knows the basic levels of management in SMEs in the construction sector - [K_W10] 2. Student knows the methods of operational management in SMEs in the construction sector - [K_W10] 3. Student knows the rules of management, methods and tools of quality - [K_W11]		
Skills: 1. Student can apply appropriate methods of operational management - [K_U10] 2. Student capable to apply odpowiednie principles, methods and tools of quality management - [K_U12] 3. Student can provide appropriate measures and safety on site - [K_U12]		
Social competencies: 1. Student can manage themselves and others - [K_K01] 2. Student is capable to operate in the organization and environment respecting the principles of professional ethics - [K_K11] 3. Student can work in a team - [K_K01]		
Assessment methods of study outcomes		

<p>Student's work includes:</p> <ul style="list-style-type: none"> - Participation in meetings with managers working in construction companies - Participation seminars - Presentation of a selected topic in the field of operational management - Test (at the end of the semester 14 week) <p>Grading Scale (seminar and colloquium):</p> <p>more than 100 targeted</p> <p>91-100 very good (A)</p> <p>81 - 90 good plus (B)</p> <p>71 - 80 Good (C)</p> <p>61 - 70 is sufficient plus (D)</p> <p>51 - 60 satisfactory (E)</p> <p>Under-50 and under (F)</p>		
Course description		
<p>-The role of the operational management of the company, the basic levels of decision-making in operational management, operational management of the key elements in the construction industry: quality management, supply chain management, to ensure health and safety, risk management, inventory management method, the method of just-in-time, lean management, process planning production waste management on site, the principles of creating quality books in the enterprise, fundamental principles of the free market - simulation</p>		
Basic bibliography:		
<ol style="list-style-type: none"> 1. March Ch. Operations management for construction, Spon Press, London-New York 2009 2. Journal of Construction Engineering and Management 		
Additional bibliography:		
<ol style="list-style-type: none"> 1. . Schroeder R.G. Operations Management. Decision making in the operations function, McGraw-Hill Book Company 1981 2. . 		
Result of average student's workload		
Activity	Time (working hours)	
1. Participation in seminars / exercises	15	
2. Preparing a presentation at a seminar	20	
3. Preparation for the test	15	
Student's workload		
Source of workload	hours	ECTS
Total workload	125	5
Contact hours	25	2
Practical activities	25	2