

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject System Design and Management		Code 1010112121010115664
Field of study Civil Engineering	Profile of study (general academic, practical) general academic	Year /Semester 1 / 2
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: 15 Classes: 15 Laboratory: - Project/seminars: -		No. of credits 2
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 technical sciences Technical sciences		ECTS distribution (number and %) 2 100% 2 100%
Responsible for subject / lecturer: mgr inż. Sebastian Dubas email: sebastian.dubas@put.poznan.pl tel. 616652830 Wydział Budownictwa i Inżynierii Środowiska ul. Piotrowo 5 60-965 Poznań		Responsible for subject / lecturer: mgr inż. Sebastian Dubas email: sebastian.dubas@put.poznan.pl tel. 616652830 Wydział Budownictwa i Inżynierii Środowiska ul. Piotrowo 5 60-965 Poznań
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Has basic knowledge of scheduling and planning construction production
2	Skills	Can plan a construction project and arrange in a logical order building tasks and processes
3	Social competencies	Has competence for teamwork and communication between work teams
Assumptions and objectives of the course: Acquiring knowledge of the work breakdown structure, project composition, project triangle, scheduling work using computer software, project management.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Has knowledge of infrastructure management in a full life cycle of objects. - [K_W19] 2. Knows and applies the rules of construction law - [K_W17] 3. Has knowledge of the impact of investment and existing buildings on the environment - [K_W13]		
Skills:		
1. Uses specialized tools to search for useful information, communication, and software acquisition to assist the designer and builder of the building process. - [K_U05] 2. Can choose tools (analytical or numerical) to solve technical problems - [K_U13] 3. Has the ability to communicate in foreign languages, including knowledge of technical elements in the field of construction. - [K_U14]		
Social competencies:		
1. Can perform tasks - work independently, cooperate in the team and lead the team - [K_K01] 2. Is responsible for the reliability of the results of his work and the assessment of the work of his team - [K_K02] 3. Complements and broadens the knowledge of modern processes and technologies in the building industry - [K_K03]		
Assessment methods of study outcomes		

<p>Student work includes:</p> <ul style="list-style-type: none"> - participation in lectures and exercises - execution of project in the field of design and management of construction output - a written test <p>Rating scale (colloquium):</p> <p>91-100 very good (A) 81-90 good plus (B) 71-80 good (C) 61-70 plus plus (D) 51-60 satisfactory (E) Less than 50 insufficient (F)</p>		
Course description		
<p>Work breakdown structure, composition design, project triangle, production planning, construction, operation scheduling using computer programs.</p>		
<p>Basic bibliography:</p> <ol style="list-style-type: none"> 1. MS Project 2007, MS Project Server 2007 : efektywne zarządzanie projektami, Sebastian Wilczewski, 2008 2. Microsoft? Project 2013 dla bystrzaków, Cynthia Snyder, Nancy Muir, 2015 3. Microsoft? Project 2013 for dummies, Cynthia Snyder, Nancy Muir, 2015 		
<p>Additional bibliography:</p>		
Result of average student's workload		
Activity	Time (working hours)	
1. Udział w wykładach	15	
2. Udział w ćwiczeniach	15	
3. Nauka własna	10	
4. Wykonanie projektu	10	
Student's workload		
Source of workload	hours	ECTS
Total workload	50	2
Contact hours	30	1
Practical activities	20	1