

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Design and management of production process		Code 1010102121010116040
Field of study Civil Engineering second-cycle studies	Profile of study (general academic, practical) general academic	Year /Semester 1 / 2
Elective path/specialty Costruction Engineering and Management	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: 45 Laboratory: - Project/seminars: 15		No. of credits 5
Status of the course in the study program (Basic, major, other) major		(university-wide, from another field) from field
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 5 100% 5 100%
Responsible for subject / lecturer: dr hab. inż. Jerzy Paślawski email: jerzy.paslowski@put.poznan.pl tel. 665-2113, 665-2457 Wydział Budownictwa i Inżynierii Środowiska ul. Piotrowo 5, 60-965 Poznań		Responsible for subject / lecturer: dr hab. inż. Wiesław Meszek email: wieslaw.meszek@put.poznan.pl tel. 665-2473, 665-2457 Wydział Budownictwa i Inżynierii Środowiska ul. Piotrowo 5, 60-965 Poznań
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Knows basic design methods in the construction process
2	Skills	Knows how to present the network model (technological and organizational)
3	Social competencies	Expanding its expertise in the field of process management in the construction industry
Assumptions and objectives of the course: Indication of the rules of selection methods for the design of production processes according to: the possibility of the organization, the nature of the task, the environment and attitudes influence the decision-maker.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. 1. Familiar with the basic operation of manufacturing processes - [-[K2_W10]]		
2. 2. He knows the principles of risk management at the operational level - [K2_W10] - [-[K2_W10]]		
3. 3. He knows the different methods of designing the building process - [K2_W08] - [-[K2_W08]]		
Skills:		
1. 1. Can apply appropriate methods to design the building process - [K2_U10] - [-[K2_U10]]		
2. 2. Able to assess risk in a given process / project - [K2_U12] - [-[K2_U12]]		
3. 3. Able to manage the risks specified in the construction process - [K2_U17] - [-[K2_U17]]		
Social competencies:		
1. 1. Able to operate in respecting the building an organization of professional ethics - [K2_K11] - [[K2_K11]]		
2. 2. He can manage themselves and others - [K2_K01] - [-[K2_K01]]		
3. 3. Can formulate opinions on how to improve production processes - [K2_K10] - [-[K2_K10]]		
Assessment methods of study outcomes		
Student work includes: participation in lectures / seminars, participation in meetings on the construction, development of design - part of the risk management system written test.		

Course description		
<p>Definitions of the construction process (investment), the construction stages of the investment process, the problems / faults construction investment process (examples), the evolution of management methods, systemic and situational approach, the organization as an entity implementing production processes in construction (model organization, its environment, the assessment of the effectiveness of the organization, stages of development of the organization), task (specificity, the classification criteria), organizational design principles, principles of risk management in the construction industry at the operational level, the principles of project management / construction processes, design methods of production processes in the construction industry, depending on the capabilities of the organization, the impact of the environment and the type of job .</p>		
<p>Basic bibliography:</p> <ol style="list-style-type: none"> Gawron H., Ocena efektywności inwestycji. WWAE, Poznań 1997. Praca zbiorowa. Procesy przemysłowe w budownictwie mieszkaniowym. Arkady, Warszawa 1980. Rowiński L., Organizacja procesów budowlanych. PWN, Warszawa 1979. Sadowski W., Teoria podejmowania decyzji. Wstęp do badań operacyjnych. PWE, Warszawa 1976. Sadowski Z., Technologia montażu w systemach budownictwa mieszkaniowego. Arkady, Warszawa 1979. Skorupka D., Kuchta D., Górski M., Zarządzanie ryzykiem w projekcie. WSOFL, Wrocław 2012. Żywica R., Technologia prefabrykatów z betonu. Wydawnictwo PP, Poznań 1985. 		
<p>Additional bibliography:</p> <ol style="list-style-type: none"> Bołtryk M., Lelusz M., Technologia konstrukcji prefabrykowanych. Politechnika Białostocka, Białystok 2004. Michnowski Z. - red., Podstawy organizacji, zarządzania i technologii w budownictwie. Arkady, Warszawa 1985. Meszek W., Metodyka określania wartości rynkowej nieruchomości w warunkach niepewności, PP, Poznań 2013. Paślowski J., Elastyczność w zarządzaniu realizacją procesów budowlanych. PP, Poznań 2009. Pitchard C. L., Zarządzanie ryzykiem w projektach. Teoria i praktyka. Wig-Press, Warszawa 2001. Sadowski Z., Technologiczność prefabrykowanych konstrukcji żelbetowych. Arkady, Warszawa 1983. Sobotka A., Wrażliwość decyzji logistycznych w przedsiębiorstwie budowlanym. Wyd. Uczelniane, Lublin 2000. 		
Result of average student's workload		
Activity	Time (working hours)	
1. Udział w wykładach/seminariach	30	
2. Udział w ćwiczeniach projektowych	15	
3. Praca własna studenta	35	
4. Przygotowanie do egzaminu	15	
Student's workload		
Source of workload	hours	ECTS
Total workload	125	5
Contact hours	80	3
Practical activities	40	2