STUDY MODULE DESCRIPTION FORM						
	the module/subject	Code 1010125121010116039				
Construction project management Field of study Structural Engineering			Profile of study (general academic, practical) general academic	Year /Semester		
Elective path/specialty			Subject offered in:	Course (compulsory, elective)		
Road-Train Engineering			Polish	obligatory		
Cycle of	study:		Form of study (full-time,part-time)			
	Second-cy	time				
No. of h	ours			No. of credits		
Lectur	e: <b>18</b> Classes	s: 10 Laboratory: -	Project/seminars:	- 3		
Status c	Status of the course in the study program (Basic, major, other) (university-wide, from another field)					
Educatio	on areas and fields of sci	major	110	ECTS distribution (number		
Edubativ				and %)		
techr	ical sciences			3 100%		
	Technical scie	ences		3 100%		
tel. ( Faciul. F Preree 1 2 3 <b>Assu</b> Co-cree	nail: tomasz.wiatr@put.poznan.pl I. 665-2454, 665-2457 aculty of Civil and Environmental Engineering Piotrowo 5, 60-965 Poznań requisites in terms of knowledge, skills and social competencies: Knowledge Knowledge from area of key subjects contained in educational standard of the first-cycle civil engineer studies, including knowledge of construction techniques. Skills Designing of simpler civil structures at the area of selected branch of civil engineering, having regard operation needs. Openness for cooperation, respect for common effects of creative designing work of engineers (authorship, as a result of teamwork). Cumptions and objectives of the course: reation of professional civil engineers qualifications, like a designers and managers in construction. Particular ficance has integration of design and execution knowledge, specially with aid of network schedules.					
Study outcomes and reference to the educational results for a field of study						
Knowledge:   1. Project management knowledge areas recognition and connection of them with rest construction knowledge (elements of construction project engineering) [K_W10]   2. Classification and application of software for project scheduling (PMS) with selected examples [K_W08]   3. Knowledge improvement about construction facilities (specific for given specialty) across structures designing and optimisation of model facilities (concept and details) [K_W09]   Skills:						
		tems and understanding of specifi	ication-estimate-schedule interc	dependencies [K_U02]		
2. Project information structures for purposes of construction planning and scheduling with aid of software - [K_U10]						
3. Ability od documentation preparation for procurement purposes (specifications, programming) - [K_U12]						
Social competencies: 1. Overall look at project from the recipient (user/orderer/investor) and environment point of view in the aspect of whole life such of facility (construction encention deconstruction) I// (/0.4)						
cycle of facility (construction-operation-deconstruction) [K_K04] 2. Competences for project teamwork (sense of common goal and role of communication and motivation) with taking of other project participants needs (coworkers, cooperants, stakeholders) [K_K05]						
3. Rea		ne professional practice towards i	,	with taking of society needs		

## Assessment methods of study outcomes

Base of lecture note is writing test contained up to 10 issues (short tasks of calculate-, describe-, indicate- type) with over 5 fully correct answers; base of laboratories note is project elaboration.

### **Course description**

Lecture: review of project management knowledge areas in construction; financial, procurement, payment and delivery systems of investment projects; formal and law procedures; project design, pre-tender and post-completition documentation (designing as project planing); methods of project planning and control (products, processes, resources), computer systems operating rules, practical tips.

### **Basic bibliography:**

1. Pawlak M., Zarządzanie projektami. Wydawnictwo Naukowe PWN, Warszawa 2006.

- 2. Behnke M., Czajka-Marchlewicz B., Dorska P., Umowy w procesie budowlanym. Wolters Kluwer, Warszawa 2011.
- 3. Praca zbiorowa. Podręcznik dla inwestorów przedsięwzięć infrastrukturalnych. MRR, Warszawa 2010.

#### Additional bibliography:

1. Hendrickson C., Project Management for Construction. Fundamentals Concepts for Owners, Engineers, Architects and Builders. Carnegie Mellon University, Pittsburgh 2008.

2. O-Brien J., Plotnick F., CPM in Construction Management. 6th Edition. McGraw-Hill, 2006.

3. Winch G. M., Managing Construction Projects. Blackwell Publishing, 2002.

# Result of average student's workload

Activity	Time (working hours)	
1. Classes participation		45
2. Works preparation	20	
3. Computer work	30	
4. Works finishing	10	
Student's wo	rkload	
Source of workload	hours	ECTS
Total workload	90	3
Contact hours	45	1
Practical activities	75	2