# Faculty of Civil and Environmental Engineering

STUDY MODULE DESCRIPTION FORM					
		Code 010135241010110144			
Field of study  Environmental Engineering Extramural Second	Profile of study (general academic, practical)  general academic	Year /Semester			
Elective path/specialty	Subject offered in:	Course (compulsory, elective)			
Water Suply, Water Soil Protection	Polish	obligatory			
Cycle of study:	Form of study (full-time,part-time)				
Second-cycle studies	part-time				
No. of hours	I	No. of credits			
Lecture: 20 Classes: - Laboratory: -	Project/seminars:	10 4			
Status of the course in the study program (Basic, major, other) (university-wide, from another field)					
other univ		ersity-wide			
Education areas and fields of science and art		ECTS distribution (number and %)			
Responsible for subject / lecturer:					

dr inż. Magdalena Hajdasz

email: email: magdalena.hajdasz@put.poznan.pl

tel. tel. 61 665 21 91

Faculty of Civil and Environmental Engineering

Piotrowo 5, 60-965 Poznań

#### Prerequisites in terms of knowledge, skills and social competencies:

1	Knowledge	Basic knowledge of building materials, technology and organisation of the construction process
2	Skills	Skills in obtaining information from the literature on the subject Skills in analysing engineering activities
3	Social competencies	Workteam skills Responsibility for the accuracy of the results of one?s own work

## Assumptions and objectives of the course:

Understanding the structure of the investment process, basics of organisation and management in construction. Obtaining skills in scheduling, developing network models and of site layout planning.

## Study outcomes and reference to the educational results for a field of study

# Knowledge:

- 1. Familiarity with the structure, rights and obligations of the participants involved in the investment process [[K2\_W08]]
- 2. Knowledge of the planning and construction organization basics [-[K2\_W08, K2\_W09]]
- 3. Knowledge of the construction documentation [[K2\_W08]]

# Skills:

- 1. Student can specify the structure of the investment process, knows rights and obligations of the participants involved in the construction process - [K2\_U01, K2\_U02, K2\_U05]]
- 2. Student can develop a construction schedule and network model, estimate the resources in terms of time-cost, can provide alternative solutions - [K2\_U01, K2\_U02, K2\_U05, K2\_U09, K2\_U10, K2\_U17]]
- 3. Student knows how to develop a concept of the construction site management by taking into account the conditions during the implementation phase - [[K2\_U01, K2\_U02, K2\_U05, K2\_U10, K2\_U17]]

# Social competencies:

- 1. Student is aware of the significance and understands the non-technical aspects and otcomes of engineering activities -[[K2\_K02]]
- 2. Student can properly determine priorities for the specific task realization [[K2\_K04]]
- 3. Student recognises the need for a systematic development of competences and engineering knowledge [[K2\_K01]]

#### Assessment methods of study outcomes

# Faculty of Civil and Environmental Engineering

Written exam: 60 minutes test, activity

Presentation Rating scale:

91-100 very good

81-90 good plus

71-80 good

61-70 dostateczna plus sufficient plus

51- 60 sufficient below 50 insufficient

# **Course description**

Investment process organization. Stages of the investment process. Participants of the investment process and the scope of their duties. Introduction to the theory of organization and management. Schedules and network planning in construction management. Construction management taking into account the construction processes dynamics and variable environmental conditions. Time-cost analysis. Organizational structure. Project delivery systems. Construction site management and construction site layout planning. Construction documentation.

## Basic bibliography:

- 1. Jaworski K.M., Podstawy organizacji budowy, Wydawnictwo Naukowe PWN, Warszawa, 2004
- 2. Robbins.S.P., De Cenzo D.A., Podstawy Zarządzania, Polskie Wydawnictwo Ekonomiczne, Warszawa, 2002
- 3. Meszek W., Żywica R., Żywica A., Organizacja procesu inwestycyjnego. Politechnika Poznańska 2003

## Additional bibliography:

- 1. Dyżewski A., Technologia i organizacja budowy, Arkady, Warszawa, 1990
- 2. . Werner W., Zarządzanie w procesie inwestycyjnym, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2008

## Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	20
2. Project development	10

### Student's workload

Source of workload	hours	ECTS
Total workload	30	4
Contact hours	20	2
Practical activities	10	2