	STUDY MODULE D	ESCRIPTION FORM	
Name of the module/subject Organization of Buil	ding Production		Code 010101141010111221
Field of study Civil Engineering Fit	set avelo Studios	Profile of study (general academic, practical)	Year /Semester
Elective path/specialty	-	general academic Subject offered in: Polish	2 / 4 Course (compulsory, elective) obligatory
Cycle of study:		Form of study (full-time,part-time)	
First-cycle studies		full-time	
No. of hours			No. of credits
Lecture: 30 Classe	s: 15 Laboratory: -	Project/seminars: 1	5 5
Status of the course in the study		(university-wide, from another fiel	,
	major	tror	n field
Education areas and fields of sc	ience and art		ECTS distribution (number and %)
technical sciences			5 100%
Technical sci	ences		5 100%
Responsible for subj dr inż. Tomasz Thiel email: tomasz.thiel@put. tel. 616652474 Wydział Budownictwa i Ir ul. Piotrowo 5, 60-965 Po	poznan.pl nżynierii Środowiska oznań		
Prerequisites in term 1 Knowledge	construction works and the tech	d social competencies: neral construction, knows the tech nology implementation of the con . He knows the rules for creating	struction of buildings. Familiar
2 Skills	Student is able to extract the construction processes within the specific technology of the works. Observations lead the implementation of various buildings with special emphasis used machinery, equipment and warehouses teams, and organization development site. Able to obtain information from the literature. Able to identify ways of calculation works.		
3 Social competencies	Student independently complements and extends knowledge of new and modern technologies of construction works, how to implement the construction works with different technologies. Can describe these technologies and how to implement objects.		
Understanding the basics of planning of construction wor the scope of the renovation construction works in time a development concept. Under projects.	jectives of the course: organization and management in ks on the examples of objects of g and modernization of the existing nd the analysis of the resources n erstanding the capabilities of comp	general construction and commun building. Acquisition of the ability eeded to carry out these works. T uter programs for the planning of	ication. The ability to define to plan the course of 'he ability to perform site works and construction
	omes and reference to the	educational results for a	i field of study
Knowledge:	• • • •		· · · · · - •
	of the organization and managem e organization and planning of wor plementation - [K W12]		-
	of describing and determining the	scope of the renovation and mode	ernization of the building -
	or drawing up development plan for	. – .	
	ns, the construction and building o	rganizational structures - [K_W15	5]
Skills:			

1. Student is able to identify the processes that occur at the stage of earthworks, foundations and erection related to the implementation of the selected object - [K_U14]

2. Student can choose the line-ups working groups to carry out specific construction processes and propose the organization of the implementation of various scopes of work $-[K_U05, K_U21]$

3. Student is able to build a technological and organizational network model to perform various construction schedules, an analysis of the resources needed to implement the construction work, with particular emphasis on the analysis of time-cost - $[K_U05, K_U15, K_U17]$

4. Student is able to apply mathematical methods in planning construction - [K_U05]

5. Student knows how to make the concept of development site - [K_U21]

Social competencies:

1. Student is able to work with a technologist, cost-estimator, investor, building contractors at the stage of implementation of the network model, construction schedules, conduct necessary studies on resource requirements, preparing the site development plan - [K_K01, K_K02, K_K03, K_K06, K_K07]

2. Student understands the importance of cooperation with the above-mentioned entities also at the stage of execution of the works and all actions that occur to putting the facility into operation $-[K_K01, K_K06, K_K07]$

3. Student recognizes the need for systematic improvement of the knowledge in the field of deepening and extending their competence - [K_K03, K_K06]

Assessment methods of study outcomes

Lecture: written examination, consisting of two parts. Part 1 is designed to test the knowledge and consists of answers to six questions. Part 2 is designed to test the skills and relies on solving the two tasks.

Classes: - written test of the material covered in the exercise

Project classes: performance, discussion and presentation technology, including the development and organization of the work of the foundation and object assembly hall prefabricated multi-bay system.

* Of the exercise design

The scale of assessments determined% of:

90 very good (A)

85 good plus (B)

75 good (C)

65 sufficient plus (D)

sufficient 52 (E)

below 51 insufficient (F)

Course description

Fundamentals of organization and management in the construction industry. Specificity of the construction production. Methods and ways of organizing works. Determining the duration of the construction processes. Types of schedules and their purpose, principles for the preparation, construction - components. Network methods in the organization and planning of works and construction of certain facilities. The analysis of the resources needed to implement the construction processes and the entire facility. The use of mathematical methods in planning construction. Development of the site. Organizational structures construction. Systems for the construction

Basic bibliography:

- 1. Podstawy teorii organizacji i zarządzania, Bielski M., wyd. 2 rozszerzone, C.H. Beck, W-wa, 2004
- 2. Organizacja produkcji budowlanej, Rowiński L., Arkady, Warszawa, 1982
- 3. Technologia i organizacja budowy, Dyżewski A., Arkady, Warszawa, 1990
- 4. Metody sieciowe w budownictwie, Biernacki J., Cyunel B., Arkady, Warszawa, 1989
- 5. Podstawy organizacji budowy, Jaworski K.M., Wydawnictwo Naukowe PWN, Warszawa, 2004

6. Zarządzanie w procesie inwestycyjnym, Werner W.A., Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa, 2008

Additional bibliography:

1. Elementy organizacji robót inżynierskich, Pisarska E., Połoński M., Wyd. SGGW, Warszawa, 2000

- 2. Podstawy organizacji robót drogowych, Biruk S., Jaworski K. M., Tokarski Z., PWN, Warszawa, 2007
- 3. Organizacja i planowanie budowy, Lenkiewicz W. PWN, Warszawa, 1985
- 4. Podstawy zarządzania organizacjami, Griffin R.W., PWN, W-wa, wyd. 1999 lub nowsze

Result of average student's workload

Activity

Time (working hours)

1. participation in lectures		30	
2. participation in classes and project classes	30		
3. preparation for classes	15		
4. preparation for test		15	
5. preparation for exam	25		
Student's wo	rkload		
Source of workload	hours	ECTS	
Total workload	125	5	
Contact hours	75	3	
Practical activities	60	2	