

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name

Technologia robót budowlanych / Technology of construction works

Course

Field of study Year/Semester

Construction 2/4

Area of study (specialization) Profile of study

Sustainable building Engineering general academic

Level of study Course offered in

First-cycle studies English

Form of study Requirements

full-time compulsory

Number of hours

Lecture Laboratory classes Other (e.g. online)

0 0

Tutorials Projects/seminars

15 15

Number of credit points

4

Lecturers

Responsible for the course/lecturer: Responsible for the course/lecturer:

dr inż. Piotr Nowotarski mgr inż. Kinga Katafoni

e-mail: piotr.nowotarski@putpoznan.pl e-mail: Kinga.katafoni@put.poznan.pl

tel: 616652190 tel: 616652181

Wydział Inżynierii Lądowej i Transportu Wydział Inżynierii Lądowej i Transportu

ul. Piotrowo 5, 60-965 Poznań ul. Piotrowo 5, 60-965 Poznań

Prerequisites

The student has basic knowledge of the basics of construction; The student is able to obtain information from the indicated sources and analyze engineering activities undertaken; The student is aware of the need to constantly update and supplement construction knowledge and take responsibility in professional work

Course objective

The student's acquisition of basic knowledge and skills in the field of construction technology works during the investment process.



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

Course-related learning outcomes

Knowledge

- 1. Know basic methods, techniques, tools and materials applied to solve simple engineering tasks in the field of environmental engineering.
- 2. Have basic knowledge of land planning and energy planning, relations between architecture and urban planning, technical and economic potential of building engineering as well as the effect of building investment on the built sustainable environment.
- 3. Have basic knowledge of the design of general infrastructure constructions as well as sustainable road and rail transport.

Skills

- 1. Are able to obtain information from literature, databases and other properly selected information sources; can integrate the obtained information, interpret and evaluate it as well as draw conclusions, formulate, justify, discuss and present opinions.
- 2. Can classify building facilities and elements of technical fitting of buildings.
- 3. When formulating and solving problems in sustainable building engineering, they can notice their systemic and non-technical aspects.

Social competences

- 1. Are able to adapt to new and changing circumstances, can define priorities for performing tasks defined by themselves and other people, acting in the public interest and with regard to the purposes of sustainable development.
- 2. Can realise that it is necessary to improve professional and personal competence, understand the need and opportunities of continuous learning (Master and PhD studies, post-diploma studies, trainings).
- 3. Understand that it is necessary to protect the intellectual property and are ready to obey the principles of professional ethics.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

As a form of measuring / assessing student work, a final test is carried out (during the last class) - lectures and tutorials, project delivery

Grade scale determined% from:

90 very good (A)

85 good plus (B)



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

75 good (C)

65 sufficient plus (D)

55 satisfactory (E)

below 54 insufficient (F)

Programme content

Lecture 1 - Introduction,

Lecture 2 - Basic conceptsand technologies for building constructions (1)

Lecture 3 -Basic conceptsand technologies for building constructions (2)

Lecture 4 -Basic conceptsand technologies for building constructions (3)

Lecture 5 - Basic conceptsand technologies for building constructions (4)

Lecture 6 - Basic conceptsand technologies for building constructions (5)

Lecture 7 - Basic conceptsand technologies for building constructions (6)

Lecture 8 - Methods of organization and planning of works (1)

Lecture 9- Methods of organization and planning of works (2)

Lecture 10- Methods of organization and planning of works (3)

Lecture 11- Methods of organization and planning of works (4)

Lecture 12 - Methods of organization and planning of works (5)

Lecture 13- Revision (1)

Lecture 14 - Revision (2)

Lecture 15 - Credit

Tutorials 1 - Introduction

Tutorials 2 - Earthworks (1)

Tutorials 3 - Earthworks (2)

Tutorials 4 - Foundations

Tutorials 5 - Assembly works

Tutorials 6 - Concreting works



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

Tutorials 7 - Revision

Tutorials 8 - Credit

Projects 1 - Intordution

Projects 2 - Project description (1)

Projects 3 - Project description (2)

Projects 4 - Consultation(1)

Projects 5 - Consultation(2)

Projects 6 - Consultation (3)

Projects 7 - Consultation (4)

Projects 8 - Credit

Teaching methods

Pyramid discussion; Panel discussion; The classic problem method; Teaching games; Exchange of ideas; Informative lecture; Problem lecture; Conversational lecture; Program text; Work with a book; Talk; Lecture reading; Demonstration method; Production exercise method; Method of experiments; Observation and measurement method; Project method; Leading text method; Workshop method; Show.

Bibliography

Basic

- 1. A. Dyżewski Technologia i organizacja budowy. Arkady Warszawa 1989
- 2. A. Stefański Technologia robót budowlanych. Arkady Warszawa 1983

Additional

- 1. K. Jaworski Podstawy organizacji budowy. PWN Warszawa 2004.
- 2. R. Chudley and R. Greeno, Construction Technology, Fourth Edition, Pearson 2006





EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

Breakdown of average student's workload

	Hours	ECTS
Total workload		4,0
	60	
Classes requiring direct contact with the teacher	45	3,0
Student's own work (literature studies, preparation for	15	1,0
laboratory classes/tutorials, preparation for tests/exam, project		
preparation) ¹		

_

 $^{^{\}mbox{\scriptsize 1}}$ delete or add other activities as appropriate