

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS) pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name		
PO: Podstawy zarządzania jakośc	ią	
Course		
Field of study		Year/Semester
Civil Engineeering		3/6
Area of study (specialization)		Profile of study
		general academic
Level of study		Course offered in
First-cycle studies		polish
Form of study		Requirements
full-time		elective
Number of hours		
Lecture	Laboratory classes	Other (e.g. online)
15	0	0
Tutorials	Projects/seminars	
	15	
Number of credit points		
2		
Lecturers		
Responsible for the course/lectu	rer: Respons	sible for the course/lecturer:
dr hab. inż. Jerzy Pasławski, prof.	PP	
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Wydział Inżynierii Lądowej i Tran	sportu	

ul. Piotrowo 5, 60-965 Poznań

Prerequisites

The student has basic knowledge of the basics of construction and the subject of quality management; 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; The student is aware of the issues of management in construction

Course objective

Learning and expanding knowledge of the basic principles of construction in the aspect of quality, management in construction in the aspect of implementation of a construction project in terms of quality. Sensitizing the student to practical aspects of quality management in construction.



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Course-related learning outcomes

Knowledge

1. Have detailed knowledge on business activity in construction industry and the ways of developing different forms of individual entrepreneurship; understand the principles of enterprise financial economy.

2. Have detailed knowledge in the field of operation algorithms of selected software supporting the analysis and design of building facilities, which are also useful to plan and manage construction projects, including Building Information Modelling (BIM).

3. Know in detail the rules of developing the procedures of construction project quality management; have knowledge of the effectiveness, costs and timing of construction projects under risk and uncertainty conditions.

Skills

1. Are able to prepare an introductory economic analysis of proposed solutions and undertaken engineering activities; can prepare a cost calculation and a work schedule, contract and business plan of a building project; are able to manage building processes, define duties and tasks in investment and building control.

2. Ae able to prepare an introductory economic analysis of proposed solutions and undertaken engineering activities; can prepare a cost calculation and a work schedule, contract and business plan of a building project; are able to manage building processes, define duties and tasks in investment and building control.

3. Can estimate hazards of building projects and building operation, implement suitable safety rules and prepare work standards as well as quality management procedures.

Social competences

1. Can realise that it is necessary to improve professional and personal competence; are ready to critically evaluate the knowledge and received content..

2. Understand the need to transfer to the society the knowledge about building engineering, transfer the knowledge in a clear and easily comprehensible manner.

3. Are ready to think and act in a business-like way.

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)

Grade scale determined% from:

90 very good (A)

85 good plus (B)



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- 65 sufficient plus (D)
- 55 satisfactory (E)
- below 54 insufficient (F)

Programme content

- Lecture 1 Introduction,
- Lecture 2 Characteristics of open / closed production systems (examples)
- Lecture 3 Benefits of introducing quality management

Lecture 4 - The genesis of quality issues (in general) breakthrough events), the genesis of quality management in the domestic construction industry

Lecture 5 - Selected definitions of quality (including the fundamental definition of quality), the role of the performance / operation system in quality management, in-house quality calculations (example)

Lecture 6 - Conditions for quality classes (examples), consequences of non-compliance in relation to the investor and the contractor, social consequences of non-compliance

- Lecture 7 Practical aspects of quality management in construction
- Lecture 8 Credit
- Project 1 Introduction
- Project 2 Project Overview (1)
- Project 3 Project Overview (2)
- Project 4 Project Overview (3)
- Project 5 Project Overview (4)
- Project 6 Consultation (1)
- Project 7 Consultation (2)
- Ptrojekt 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;



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Observation and measurement method; Project method; Leading text method; Workshop method; Show.

Bibliography

Basic

11. Myszewski J. PO PROSTU JAKOŚĆ. PODRĘCZNIK DO ZARZĄDZANIA JAKOŚCIĄ, 2009,

2. Hamrol A. Zarządzanie jakością z przykładami, Wydawnictwo Naukowe PWN, Warszawa 2005, 2008

Additional

1. . Eckers G. Rewolucja Six Sigma ? jak General Electric i inne przedsiębiorstwa zmieniały proces w zyski, Akademia Białego Kruka, MT Biznes, Warszawa 2010.

2. Nowotarski, Piotr, and Jerzy Paslawski. "Barriers in running construction SME–case study on introduction of agile methodology to electrical subcontractor." Procedia Engineering 122 (2015): 47-56.

Breakdown of average student's workload

	Hours	ECTS
Total workload	60	2,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for	30	1,0
laboratory classes/tutorials, preparation for tests/exam, project		
preparation) ¹		

¹ delete or add other activities as appropriate