



HASAN KALYONCU UNIVERSITY
Faculty of Engineering
Course Description Form

COURSE: Construction Management					
CODE: CE332		SEMESTER: SPRING			
LANGUAGE: ENGLISH		TYPE: COMPULSORY			
PRE-REQUISITES: - CO-REQUISITES: -		THEORY	PRACTICAL	CREDIT	ECTS
WEEKLY HOURS: 3		3	0	3	5

CONTENT OF THE COURSE:

Study of Construction Management functions including Project Management, Cost Management, Time Management, Quality Management, Contract Administration, and Safety Management. Emphasis is put on the application of each function throughout the project phases.

OBJECTIVE OF THE COURSE:

This course provides students with skills and knowledge in organizing multi-disciplinary teams to achieve successful project outcomes via enabling students

- to understand the key components of a successful project
- to embed necessary processes, components, and attributes into execution of their projects;
- to improve practice of communication skills to organize project teams;

to develop project trouble-shooting capabilities through careful analysis and root cause determinations.

WEEKLY SCHEDULE

Week	Topics
1	Introduction - Construction Project Management
2	Construction Project Management
3	Sustainable Design and Construction
4	Construction Stakeholders, Processes and Organizations
5	Construction Planning
6	Innovation in Construction Managements (BIM)
7	Building Information Modelling Case Study Examples
8	Midterm Week, Essay Submission for midterm assessment
9	Contracts and Tender
10	Students Group study on Projects
11	Tutorial - Students group study on Projects
12	Health and Safety in Construction,
13	Tutorial- Students Group study on Projects
14	Project Monitoring and Quality Control,

- **TEXTBOOK:** K. Knutson, C. J. Schexnayder, C. M. Fiori, R. Mayo, “Construction Management Fundamentals“, McGraw-Hill Series in Civil Engineering, 2nd Edition

(2008).

- Arayici, Y. (2015), “Building Information Modelling”, September 2015, Bookboon publisher, ISBN: 978870310986

REFERENCE BOOKS

- Nunnally, S. W., “Construction Methods and Management”, Upper Saddle River, NJ, Prentice-Hall, 2004, 6th Edition.

E. Allen, J. Iano, “Fundamentals of Building Construction”, John Wiley & Sons, 2003, 4th Edition.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
LO1	0	0	0	0	3	2	0	0	0	3	0
LO2	0	0	0	0	3	2	0	0	0	3	0
LO3	0	0	0	0	3	2	0	0	0	3	0
LO4	0	0	0	0	3	2	0	0	0	3	0
LO5	0	0	0	0	3	2	0	0	0	3	0
LO6	0	0	0	0	3	2	0	0	0	3	0
PO: Program Outcomes LO: Learning Outcomes Values: 0: None 1: Low 2: Medium 3: High											

INSTRUCTOR(S):	Prof. Dr. Yusuf Arayici
FORM PREPARATION DATE:	17.03.2020

LEARNING OUTCOMES OF THE COURSE:

LO1: Critically appraise and evaluate the concepts of project management and the importance of people, processes and techniques

LO2: Critically examine and evaluate the implications of Building Information Modelling on projects and organizations

LO3: Assess risks and project impact factors on a project proposal, including environmental impacts. Identify and assess the factors and criteria which will be used in the impact assessment and their significance, reviewing alternative solutions to improve environmental quality and producing a report of the assessed environmental impact.

LO4: Manage project completion processes, including inspection and handover processes; instigate project review processes and identify and document learning/lessons learned for improved future project performance

LO5: Develop Communication and Presentation Skills by

- taking part in group discussions
- writing reports for senior management

LO6: Numeracy

- collect, analyze and record data presentation of the findings of research

CONTRIBUTION OF THE COURSE TOWARDS PROVIDING VOCATIONAL EDUCATION: The student learns and applies the current situation analysis of building enterprise applications, the implementation of more useful building management methods in the construction sector and the evaluation of critical building management errors in the building ecosystem.

