AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Engineering Project Management								
Course Code	MCE570		Couse Level		Second Cycle (Master's Degree)				
ECTS Credit	8	Workload	195 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	The student will understand the basics of project management including the importance and interrelationship of all the components. The mission is to help organizations achieve their project objectives and objectives of scope, quality, budget, and schedule within the context of the natural, social and political environment in which the project is being developed.								
Course Content	This course presents the specific concepts, techniques and tools for managing projects effectively. The use of this course is to inform professionals in science of directing and coordinating human, equipment, material, and financial resources to develop a project in a way that they could give maximum attention to project details in the most cost- effective way possible while maintaining a broad perspective of the project. The role of the project manager as team leader is examined, together with important techniques for controlling cost, schedules and performance parameters. The course includes several topics related to project management techniques from project conceptualization to turnover. The fundamentals of project management is pointed in detail including: overview and concepts of project management (principles, body of knowledge, strategies); planning successful projects (defining, specifying, delivery options, scheduling, budgeting); implementing (organizing the team, work assignments, team building, effective leadership); executing (performance measurement, maintaining the schedule, adjustments/mid-course corrections, record keeping, status reporting, communications, managing conflict, time management); and closeout (performance measurement, maintaining the schedule, adjustments/mid-course corrections, record keeping, status reporting, communications, managing conflict, time management).								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Project Based Study, Individual Study, Problem Solving								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	2	30
Final Examination	1	30
Project	1	40

Recommended or Required Reading	
1	Meredith, J.R. (2012). Project Management 8e ISV : A Managerial Approach. John Wiley Higher Education. ISBN: 9781118093733
2	Core Concepts - Project Management in Practice, 4th Edition, by Jack R. Meredith, Samuel J. Mantel, Jr., Scott M. Shafer, and Margaret M. Sutton. Published by John Wiley & Sons, © 2022. ISBN 978-0-470-533301-7./ E-book: www.coursesmart.com/9780470533017
3	A Guide to The Project Management Body of Knowledge, PMBOK® Guide © 2008, Fourth Edition, Project Management Institute. ISBN # 978-1-933890-51- 7.
4	System & Project Management, Pen˜a- Mora, Anumba, Lyneis, Soibelman, Samii, Park, Kalligeros
5	Goldratt, Eliyahu M. (2004). The Goal (3rd Edition). North River Press. ISBN: 0884271781
6	Goldratt, Eliyahu M. (2004). Critical Chain. North River Press. ISBN: 0884271536
7	Lawrence P. (2004). Critical Chain Project Management (2nd Edition). Artech House Publishers. ISBN: 1580539033

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to course syllabus
2	Theoretical	Project
3	Theoretical	Strategic Management
4	Theoretical	The Project Manager
5	Theoretical	Organizational Structure
6	Theoretical	Activity Planning
7	Intermediate Exam	1st MIDTERM EXAM. / PROJECT
8	Theoretical	Cost Estimation

9	Theoretical	Scheduling
10	Theoretical	Resource Allocation
11	Intermediate Exam	2nd MIDTERM EXAM. / PROJECT
12	Theoretical	Monitoring
13	Theoretical	Project Control
14	Theoretical	Project Auditing
15	Theoretical	Project Termination
16	Final Exam	FINAL EXAM. / PROJECT

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	5	3	112
Project	1	25	3	28
Midterm Examination	2	15	2	34
Final Examination	1	18	3	21
			Total Workload (Hours)	195
			[Total Workload (Hours) / 25*] = **ECTS**	8

**25 hour workload is accepted as 1 ECTS*

Learning Outcomes

1	Discuss and differentiate the role of project management
2	Discuss meaning and purposes of planning and managing a project
3	Demonstrate the ability to write accurate, measurable project requirements
4	Demonstrate decision-making techniques for project work breakdown structures
5	Identify and generate project components - activities, diagrams, and computations
6	Explain and apply Critical Path and Critical Chain Project Measurement and Control Methods
7	Communicate project details to various levels of management
8	Discuss the effect of project delays and constraints on project duration
9	Explain project scheduling with activities of uncertain durations
10	Display understanding of the burdens/responsibilities associated with Project closure

Programme Outcomes *(Civil Engineering (English) Master)*

1	To be able to develop expertise knowledge in a civil engineering area founded on their graduate competence.
2	To be able to use the theoretical and practical expertise knowledge gained in their specialty area.
3	To be able to use the information, problem solving and / or practical skills from the field, in interdisciplinary studies.
4	To be able to create new knowledge by integrating their knowledge area with the knowledge coming from different disciplines; and solve problems that need expertise by using scientific research methods
5	To be able to solve the problems related to his/her area by using appropriate research methods
6	To be able to devise a problem in their specialty area, develop a solution methodology, solve the problem, and interpret the results and take action if necessary
7	To be able to criticize the knowledge in their specialty area, guide the learning process, and independently direct high level studies
8	To be able to systematically communicate the recent developments in their specialty area and their own studies to groups both inside and outside their specialty area, orally, in writing and visually
9	To be able to use computer software at a level required by their specialty area with drawing upon information and communication technology at a high level
10	To be able to introduce scientific, technological, social and cultural advancements in the field of civil engineering and to contribute to the process of being an information of the society and to sustain it.
11	To be conscious of professional and ethical responsibility and contribute to the establishment of this consciousness.
12	To be able to protect social, scientific, and ethical values during collection, interpretation, and dissemination stages of the data associated with their specialty area; instruct and supervise these values
13	To be able to use at least one foreign language in a level to follow current developments related to the field.

Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
P1	5	4	5	4	5	4	5	5	4	5
P2	4	5	4	5	4	5	4	4	5	4

P3	5	4	5	4	5	5	5	5	4	5
P4	4	5	4	5	4	5	4	4	5	4
P5	5	4	5	4	5	5	5	5	4	5
P6	4	5	5	5	4	5	4	5	5	4
P7	5	4	4	4	5	5	5	4	5	5
P8	4	5	5	4	5	5	5	5	4	4
P9	5	4	4	5	4	5	4	4	5	5
P10	4	5	4	4	4	5	5	5	4	5
P11	5	4	5	5	5	4	5	5	5	5
P12	4	5	5	4	4	5	4	4	4	5
P13	5	4	4	5	5	5	5	5	5	5