

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Next Generation Industry Applications							
Course Code	AEK220		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit 3	3 Workload 71 (Hours) Theory		Theory	2	Practice	0	Laboratory	0
Objectives of the Course Industry 4.0, known as the 4th industry though it is a concept used by almost physical systems, internet of things, data analytics.			by almost all	automation	n and data exc	change era fro	om all sectors. Cy	ber-
Course Content	Cyber-physica Internet of thin Cloud technolo Cognitive com Modelling Simulation Data analytics	gs egy						
Work Placement N/A								
Planned Learning Activities and Teaching Methods			Explanation	(Presentat	tion), Discussi	on, Case Stud	dy	
Name of Lecturer(s) Ins. Emine ERTÜRK ŞAHİN			J					

Assessment Methods and Criteria							
Method	Quantity	Percentage (%)					
Midterm Examination		1	40				
Final Examination		1	70				

Recommended or Required Reading

1 Endüstri 4.0-Uygulama ve Dönüşüm Rehberi

Week	Weekly Detailed Cou	urse Contents
1	Theoretical	Intelligent Related Product Work Models
2	Theoretical	LEan Production systems for Industry 4.0
3	Theoretical	Skill Development for Industry 4.0
4	Theoretical	Road Map for Industry 4.0
5	Theoretical	Data Analysis for Manufacturing
6	Theoretical	Internet of Things and New Value Suggestion
7	Theoretical	Developments in Robotics in Era of Industry 4.0
8	Theoretical	Role of Incremented Reality in Industry 4.0 Era
9	Theoretical	Endüstri 4.0 Çağında Artırılmış Gerçekliğin Rolü
10	Theoretical	Digital Tracebility on Production Value Chain
11	Theoretical	General View Toward Cyber Security in Era of Industry 4.0
12	Theoretical	Project Presentations
13	Theoretical	Project Presentations
14	Theoretical	Project PResentations
15	Theoretical	Project Presentations
16	Final Exam	Final Exam

Workload Calculation						
Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	13	1	1	26		
Term Project	5	1	2	15		
Project	4	3	1	16		
Midterm Examination	1	6	1	7		



Final Examination	1		6	1	7	
	Total Workload (Hours)				71	
[Total Workload (Hours) / 25*] = ECTS					3	
*25 hour workload is accepted as 1 ECTS						

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1		able to 1. Combine information and communication technologies and echnologies within the scope of Industry 4.0. 3. Get acquainted with new
2		
3		
4		
5		

Prog	ramme Outcomes (Alternative Energy Sources Technology)
1	To have knowledge about basic science and technology.
2	To have knowledge about basic energy and alternative energy sources.
3	To have knowledge about basic electrical and electronic laws.
4	To have knowledge about the installation and operation of energy facilities.
5	Learning the methods of recycling of waste and use of energy.
6	To have experience in energy generation and project design.

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

	L1	L2	L3	L4	L5
P2	2	2	2	2	2
P4	5	5	5	5	5
P5	2	2	2	2	2
P6	5	5	5	5	5

