

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
DIGITAL TRANSFORMATION and GOVERNMENT	YMI4210597	Spring Semester	3+0	3	5
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Elective				
Course Coordinator	Assist.Prof. Esra OĞUZHAN				
Name of Lecturer(s)	Assist.Prof. Esra OĞUZHAN				
Assistant(s)					
Aim	This course aims to identify the changes in goveranal institutions and the public sector, the roles of the developments in the field of artificial intelligence in the organization and management levels, especially through the impact of industry 4.0 on digital transformation, and to inform them about the elements and actors of the post-digital transformation in the world by transferring them together with the transition to electronic state. .				
Course Content	This course contains; Conceptual Framework of Industry 4.0,Production systems based on Industry 4.0,Technology Roadmap in Industry 4.0,Internet of Things: Proposing new value,Digital Government and Cyber Security>Data Analytics in Management,Midterm,Social Engineering with Examples,Five Areas of Digital Transformation: Individual,Five Areas of Digital Transformation: Competition,Five Areas of Digital Transformation: Data,Five Areas of Digital Transformation: Innovation,Five Areas of Digital Transformation: Value,Exam.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Names the elements that constitute digital transformation			10, 16, 9	A, E	
Analyzes the relationship of Industry 4.0 with the concept of digital state.			13, 9	A, E	
Comments on the innovations and potential brought by artificial intelligence			10, 16, 9	A, E	
Defines the concept of Post-Digital state			10, 16, 9	A, E	
Teaching Methods	10: Discussion Method, 13: Case Study Method, 16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, E: Homework				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Conceptual Framework of Industry 4.0				
2	Production systems based on Industry 4.0				
3	Technology Roadmap in Industry 4.0				
4	Internet of Things: Proposing new value				
5	Digital Government and Cyber Security				
6	Data Analytics in Management				
7	Midterm				
8	Social Engineering with Examples				
9	Five Areas of Digital Transformation: Individual				
10	Five Areas of Digital Transformation: Competition				
11	Five Areas of Digital Transformation: Data				
12	Five Areas of Digital Transformation: Innovation				
13	Five Areas of Digital Transformation: Value				
14	Exam				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
The Fourth Industrial Revolution, Klaus Schwab. The Digital Transformation Playbook, David L. Rogers, 2016. Industry 4.0: Managing The Digital Transformation, Alp Ustundag, Emre Cevikcan, 2018.