

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
PROCESS ANALYSIS	MIS3212183	Spring Semester	3+0	3	5
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Elective				
Course Coordinator	Assoc.Prof. Özge DOĞUÇ				
Name of Lecturer(s)	Assoc.Prof. Özge DOĞUÇ				
Assistant(s)					
Aim	The primary objective of the course is to explain basic concepts and methods of Business Process Analysis and also to emphasize the importance of analyzing, modeling and redesigning processes in business.				
Course Content	This course contains; Business Process Analysis - Process - Routine - Project, Managing Processes: Process Hierarchy and Its Importance, Types of Processes, How to measure the performance of a process?, Advanced Process Modeling, Qualitative Process Analysis, Quantitative Process Analysis, Qualitative Process Analysis - Simulation, Qualitative Process Analysis - Queue, Redesigning Processes, From Process Modeling to Need Analysis, Process Automation, Process Monitoring and Mining, Process Mining: Control Flow Process Analysis.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. Will be able to model processes for systems use			13, 16, 9	E, F	
1.1. Analyzes system requirements.			13, 9	F	
1.2. Develops process modeling.			13, 9	F	
2. Will be able to manage process flows in various systems			13, 16, 9	E, F	
2.1. Specifies workflow requirements.			9	F	
2.2. Executes workflow management.			4, 9	F	
3. Will be able to automate process, design and manage process automation			14, 2, 4, 9	A, F	
3.1. Develops automation design.			4	F	
3.2. Executes process automation management.			4	E, F	
4. Will be able to identify the processes and process owners; and manage the key performance indicators			13, 9	A, F	
4.1. Identifies processes.			4	F	
4.2. Manages performance indicators.			4, 9	F	
5. Will be able to model the job processes and create real-life applications			18, 9	A, F	
5.1. Develops models for business processes.			4	F	
5.2. Presents to the model application environment.			4, 5	F	
Teaching Methods	13: Case Study Method, 14: Self Study Method, 16: Question - Answer Technique, 18: Micro Teaching Technique, 2: Project Based Learning Model, 4: Inquiry-Based Learning, 5: Cooperative Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, E: Homework, F: Project Task				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Business Process Analysis - Process - Routine - Project				
2	Managing Processes: Process Hierarchy and Its Importance, Types of Processes				
3	How to measure the performance of a process?				
4	Advanced Process Modeling				
5	Qualitative Process Analysis				
6	Quantitative Process Analysis				
7	Qualitative Process Analysis - Simulation				
9	Qualitative Process Analysis - Queue				
10	Redesigning Processes				
11	From Process Modeling to Need Analysis				
12	Process Automation				
13	Process Monitoring and Mining				
14	Process Mining: Control Flow Process Analysis				
Evaluation Methods		Weight(%)			
(Midterm Exam) Project for Midterm		40			
(Midterm Exam) Homework as part of midterm		10			
Midterm Exam		40			
General Exam		60			

Resources
Improving Business Processes Author: Mark McDonald. Publisher : Harvard Business Review Fundamentals of Business Process Management, by Marlon Dumas (Author), Marcello La Rosa (Author), Jan Mendling (Author), Hajo A. Reijers (Author), 2018 Business Process Analysis – by Geoffrey Darnton (Author), Moksha Darnton (Author)