Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
IND271		3	3	0	0	3	4

Prerequisites	
Admission Requirements	

Language of Instruction	French
Course Type	Compulsory
Course Level	Bachelor Degree
Objective	Being able to look at events and problems as a whole and analyzing the relationships of the parts that make up the system with each other and with their environment forms the basis of making the right decision. In this context, the objectives of the course are determined as follows: • To explain general system and process approach concepts, • To give methods to ensure that businesses are examined with a system approach, • Demonstrating problem analysis and solving techniques, • To explain the tools required for designing information systems, • To enable them to do physical and logical modelling.
Content	Week 1: Determination of general rules for the course, System Concept, System Definition and Components. Week 2: Role of the systems analyst, System development life cycle Week 3: Project management Week 4: Prediction Week 5: Information gathering methods Week 6: Agile modeling, prototype, scrum Week 7: Project interim control Week 8: Midterm Exam Week 9: Decision analysis Week 10: Multi-Criteria Decision Making Week 11: Data flow diagrams Week 12: Unified Modeling Language (UML) Week 13: Project presentations Week 14: Project Presentations
References	1. Prof. Dr. Haluk Erkut," Analiz, Tasarım ve Uygulamalı Sistem Yönetimi", İrfan Yayıncılık. 2. Kendall, K.E., Kendall, J.E., “Systems Analysis and Design”, Prentice Hall. 3. Dennis, A., Haley, B.R., Roberta M., “Systems Analysis and Design”, Wiley.

Theory Topics

Week	Weekly Contents
1	Determination of general rules for the course, System Concept, System Definition and Components.
2	Role of the systems analyst, System development life cycle
3	Project management
4	Forecast
5	Information gathering methods
6	Agile modeling, prototype, scrum
7	Project interim control
8	Midterm Exam
9	Decision analysis
10	Multi-Criteria Decision Making
11	Data flow diagrams
12	Unified Modeling Language (UML)
13	Project presentations

Week	Weekly Contents
14	Project presentations