ÇANKAYA UNIVERSITY
Department of Industrial Engineering
Spring, 2026

IE 364 - Production Information Systems

- **(3+0+3 credits, 6 ECTS, Compulsory Course)**

- **Course Website: http://webonline.cankaya.edu.tr**

	Instructor	**Assistant**
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Office:	L304	L310
Office Hours:	Will be announced later	Will be announced later

Course Description:

Information Systems and IE perspective, Global E-business and Collaboration, Organizational and Business relevance, IT Infrastructure, Information Technologies, Telecommunications, and the Internet, Security and Control, Enterprise Applications and Integration, Business Process Redesign, E-commerce: Digital Markets, Digital Goods, Knowledge Management, Decision Making, Building Information Systems, Managing Projects.

Tentative weekly course schedule:	
Week	Topic(s)
1	Information Systems
2	Global E-business and Collaboration
3	Decisions and Processes
4	Information Technology Infrastructure
5	Designing Databases: Diagrams and Flowcharts
6	Business Process Redesign
7	Enterprise Applications
8	Business Analysis for ERP software implementation
9	Networks and Telecommunications, Industry 4.0
10	Ethics and Information Security: ISO Standards
11	Managing Knowledge, Big Data and Artificial Intelligence
12	E-commerce, Digital Markets, Digital Goods
13	Systems Development Life Cycle
14	IT Projects and Change Management

Tentative weekly lab schedule:		
Week	Topic(s)	To-Do
1	MS Access-Basics	
2	MS Access-Tables	
3	MS Access-Relations	Submit project groups
4	MS Access-Queries-1	
5	MS Access-Queries-2	Submit the first deliverable of the Ms Access case study
6	MS Access-Forms	
7	MS Access-Reports	
8	MS Access-Macros	
9	MS Access-VBA	
10	ERP-Basics and Company Establishment	Submit the complete MS Access case study
11	ERP-Inventory card and creating a purchase order	
12	ERP-Bill of Materials	
13	ERP-Manufacturing Processes Definition	
14	ERP-Production ERP-Order Fulfillment	Submit the ERP Project

Grading:

MS Access Case Study:	20 %
ERP Project:	20 %
Midterm Exam:	25 %
Final Exam:	35 %
Total:	**100 %**

Special instructions are given below.

At week 3, students should form their groups and inform the course instructor through the course website. The deadline for group formation is **Friday of Week 3 at 23:55**. Groups should include **four or five students**. Those who do not/cannot form a group will be grouped by the instructor. These groups will be valid for both the case study and the ERP project. 3

At week 10, groups should submit their complete MS Access Case Studies by uploading the soft copy to the course website. The submission deadline is **Sunday of Week 10 at 23:55.**

At week 14, groups should submit the complete ERP projects by uploading a project report to the course website. The submission deadline is **Sunday of week 14 at 23:55**.

The necessary information about the deliverables will be provided on the course webpage. Students are required to follow the course website and the announcements. The deadlines are strict and will be dictated by the Moodle platform (e.g., Moodle platform will not accept any submissions after the deadline).

Grading Policy:

- **Students who do not attend the midterm and final exams without a valid excuse (including make-up exams) will receive an "NA" (Not Available) grade.**

- **Students with an attendance rate of 60% or less will not be allowed to take the final exam.**

Policy on Projects and Exams:

Cheating in projects and exams has serious consequences. Therefore, all work submitted should reflect your honest effort.

Term project and case study:

There will be a term project covering the fundamental issues of database management by using MS Access. Also, there will be a case study on ERP that considers the basics taught in the course's laboratory hours. Both of these studies will be achieved in a team.

Textbook:

Author(s)	Title	Publisher	Publication Year	ISBN
Laudon K.C. Laudon J.P.	Management Information Systems: Managing the Digital Firm, 16th Ed.	Pearson	2020	978-1-292-29656-2

The instructor has the right to change the syllabus.