Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
IND453	Management Information Systems	7	2	1	0	2.5	5

Prerequisites	
Admission Requirements	

Language of Instruction	
Course Type	Compulsory
Course Level	Bachelor Degree
Objective	This course introduces industrial engineering students to the strategic and operational uses of management information systems (MIS). The course covers information technology (IT) architecture, business application systems, productivity systems, and Internet-based tools for businesses and customers. Students learn how to evaluate the cost effectiveness and business value of Information Systems. We approach MIS from both managerial and technical perspectives, as understanding both perspectives is essential to business success.
Content	Week 1: Information Systems in the global business world Week 2: Information Systems, Organizations and Strategies Week 3: Information Technology Infrastructure and Emerging Technologies; Telecommunications, the Internet, and Wireless Technology Week 4: Planning and development of information systems Week 5: E-Business, E-Commerce, E-Marketplaces; M-Business, M-Commerce Week 6: Foundations of Business Intelligence: Databases and Information Management ; Knowledge Management Week 7: Enhancing decision making - Decision Support Systems Week 8: Midterm Week 9: Operational Excellence and Enterprise Resource Planning (ERP) Week 10: Supply chain and customer loyalty: Application of information systems for companies Week 11: Design of Information Systems Week 12: Information Systems Project Management, Managing Global Information Systems Week 13: Securing Information Systems, Ethical and Social Issues in Information Systems Week 14: Presentation of students' projects
References	1. Laudon, K.D., Laudon, J.P., Management Information Systems, Prentice Hall, 11th edition, 2009 2. 2. Reix, R., Systèmes d'Information et Management des Organisations, Vuibert, 2004.

Theory Topics

Week	Weekly Contents
1	Information Systems in the global business world
2	Information Systems, Organizations and Strategies
3	Information Technology Infrastructure and Emerging Technologies; Telecommunications, the Internet, and Wireless Technology
4	Planning and development of information systems
5	E-Business, E-Commerce, E-Marketplaces; M-Business, M-Commerce
6	Foundations of Business Intelligence: Databases and Information Management ; Knowledge Management
7	Enhancing decision making - Decision Support Systems
8	Midterm

Week	Weekly Contents
9	Operational Excellence and Enterprise Resource Planning (ERP)
10	Supply chain and customer loyalty: Application of information systems for companies
11	Design of Information Systems
12	Information Systems Project Management, Managing Global Information Systems
13	Securing Information Systems, Ethical and Social Issues in Information Systems
14	Presentation of students' projects

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9	Operational Excellence and Enterprise Resource Planning (ERP)
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