

## 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							
French							
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
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