Course Code Course Name Theory Practice Lab Credit ECTS IND453 2.5 5 Management Information Systems 7 Prerequisites Admission Requirements Language of Instruction French Course Type Compulsory Course Level Bachelor Degree 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 Objective 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. 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 Content 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 1. Laudon, K.D., Laudon, J.P., Management Information Systems, Prentice Hall, 11th edition, 2009 References

Theory Topics

Week

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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
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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

2. 2. Reix, R., Systèmes d'Information et Management des Organisations, Vuibert, 2004.

Weekly Contents

Presentation of students' projects