Management Information Systems Course

Name of the subject: **Management Information Systems -BSc- module Information Technologies**	*SUBJECT code:*	Weekly hours: 4 **2 lectures+2 practices**	Credit: **6 ECTS**
Subject leader: **Dr Djordje Nikolić**	*Academic Degree:* **Assistant Professor**	Prerequisites: **Informatics I and II, Basics of Management, Basics of Organization, Production Management**	

Purpose: This course is an introduction to management information systems and their role in supporting and transforming modern organizations and management activities. This course helps students to understand what IT components are available and how they can utilize appropriate IT applications for success. Furthermore, students will learn the terminology used in the field of IT and how IT principles can apply to your businesses.

Also, students will complete the HP-GET IT course through this subject exercises and after that they will receive certificates.

Course description: Management Information Systems course stresses the competitive advantage of using IT and the return on investment that can be gained from such activities. This course surveys the information technologies and systems in business and provides a framework for examining the managerial and strategic changes such systems introduce. This course focuses on the basic principles of Information Technology: hardware and software components, database technology, telecommunications and networking, e-commerce and e-business, Enterprise Resource Planning (ERP), Decision Support Systems (DSS) and Expert Systems (ES), systems development and implementation, securing information systems and the ethical and societal issues involved in IT.

Schedule	
Weeks	**Topics**
1.	**Introduction to Information Systems:** Information systems, Data vs. Information, The Process of Transforming Data into Information, Characteristics of Valuable Data, System Components and Concepts, Computer-Based Information Systems, The Components of a Computer-Based Information System, Business Information Systems, Definition of Management Information Systems
2.	**Information systems in organizations:** What is an organization? A General Model of an Organization. Organizations and Information Systems, Organizational Structure, Organizational Culture and Change, Reengineering vs. Continuous Improvement, Business trends and IS, Competitive Advantage
3.	**Components of Management Information Systems**: Hardware components, Processing and memory devices: Power, Speed, and Capacity, Moore's Law, Memory characteristics and functions, Types of memory, Secondary storage, Input and Output devices…

4.	**continued:** An overview of software, Operating Systems, Utility Programs, Application Software, Enterprise Application Software, Enterprise resource planning (ERP) software…
5.	**continued:** Organizing data and information, Database management systems, The Relational Database Model, The Database and E-business…
6.	**continued**: Telecommunications and Networks, Network components, Types of networks, Transmission Media Types…
7.	**continued:** Internet, Intranets and Extranets, How the Internet Works, Internet service providers, World Wide Web, Internet and Web applications
8.	**Business information systems**: An Introduction to Electronic Commerce (B2B, B2C, C2C), Mobile commerce, E-commerce and Mobile commerce software
9.	**Information and Decision Support Systems**: Management Information Systems and decision making, Decision Support Systems (DSS)
10.	**Business information system dev**elopment: Investigation and analysis, Design, Implementation, Maintenance and Review
11.	**Security, Privacy and Autonomy of Information Systems**: Concepts of information systems security.
12.	**Information Security Management System (ISMS)**: Introduction to ISO 2700x Standards and basic concepts
13.	**Information Systems in Business and Society**
14.	**Test**

Final grade:
The grading structure is as follows:

Activity	Points
Final examination	40
Case study preparation and class presentations	20
Tests	20
Participation in class	20

Grading scale:

Points	Grade
0-50	5 (fail)
51-60	6 (satisfactory)
61-70	7 (good)
71-80	8 (very good)
81-90	9 (excellent)
91-100	10 (excellent- outstanding)

Compulsory literature:
1. Post, G.V., Anderson, D.V. (2003), Management Informations Systems, McGraw Hill, New York.
2. Laudon, K.C. , Laudon, J.P. (2012), Management Information Systems, Managing the digital firm (twelfth edition), Pearson Higher Education.
3. Kroenke, D. (2012) Processes, Systems, and Information: An Introduction to MIS, Pearson Education

Supplemental literature*:*

1. Stair, R.M., Reynolds, G.W. (2010), Principles of Information System, A Managerial Approach 9th, Course Technology, Cengage Learning.
2. O`Brein, J.A., Marakas, G.M. (2011). Management Information Systems 10th Edition, McGraw-Hill/Irwin