

<b>Study Programme: Engineering Management</b>			
<b>Course Unit Title: Information technology fundamentals</b>			
<b>Course Unit Code: IM1010</b>			
<b>Name of Lecturer(s): Darko Stefanović, Milan Mirković</b>			
<b>Type and Level of Studies: bachelor</b>			
<b>Course Status (compulsory/elective): mandatory</b>			
<b>Semester (winter/ summer): summer</b>			
<b>Language of instruction: english</b>			
<b>Mode of course unit delivery (face-to-face/distance learning): face-to-face</b>			
<b>Number of ECTS Allocated: 6</b>			
<b>Prerequisites: none</b>			
<b>Course Aims:</b> The course is aimed to: 1) systematize and improve student's IT knowledge through learning the fundamental elements of information system, structure and functional characteristics of contemporary computer systems and application of standard software tools like text editors, spreadsheets, electronic presentations and tools for Computer programs development; 2) make students able of understanding the concepts and classification of software, principles of operating systems and computer networks; 3) emphasize the significance of global computer network in modern business; 4) learn students how to become conscientious and responsible users of IT resources.			
<b>Learning Outcomes:</b> This course will enable students to: 1) understand the structure and functionality of information system and to use IT independently and confidently; 2) understand principles of operating systems, basic components and types of computer networks, as well as Internet infrastructure, Internet services and possible application; 3) understand issues like authorization, information safety, copyrights, data protection, virtual communities and potential risks according the global area networking; 4) develop procedural Computer programs.			
<b>Syllabus.</b> Fundamental IT concepts. Computer architecture and principles of its operation. Data representation. Software tools: text editors, spreadsheets, presentation software. Classification, functions and layers of operating systems. Types and components of computer networks, communication protocols, inter networking principles and challenges. Application aspects of global area networks. Internet services, application and usage. Program development: representation of the real system in the computer program, program testing.			
<b>Required Reading:</b> Relevant literature in English, tbd			
<b>Weekly Contact Hours:2</b>	<b>Lectures: 4</b>	<b>Practical work: 0</b>	
<b>Teaching Methods:</b> Teaching is done through lectures and exercises that are performed in the computer lab.			
<b>Knowledge Assessment (maximum of 100 points):</b>			
<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Attendance			
Computer exercises			
Tests (4x)			

