

Study Programme: Engineering Management			
Course Unit Title: Project management tools and techniques			
Course Unit Code: IM1312			
Name of Lecturer(s): Slobodan Morača			
Type and Level of Studies: bachelor			
Course Status (compulsory/elective): elective			
Semester (winter/ summer): winter			
Language of instruction: english			
Mode of course unit delivery (face-to-face/distance learning): face-to-face			
Number of ECTS Allocated: 5			
Prerequisites: none			
Course Aims: The educational goal of the course is to familiarize students with modern project management tools and techniques. The course is dealing with the concepts and knowledge about formal project management procedures and software tools that supports these procedures in practice. In the part relating to project management methods and techniques, a generic model of the processes, defined by Project Management Institute (PMBOK), is presented, and the possibilities of its application and adaptation with regard to the size and type of the project.			
Learning Outcomes: Students who successfully pass pre-exam obligations and the exam are able to: (1) understand the importance and application field of different tools and techniques in project management; (2) to apply a large number of tools, methods and techniques needed for effective and efficient project management.			
Syllabus. Modern project management tools and techniques and their application area in project management. Methods, tools techniques in the project initiation phase. Brainstorming method. Game theory. Decision making methods. Methods, tools and techniques in the project planning phase. WBS - Work Breakdown Structure. OBS - Organizational Breakdown Structure. PERT - Program Evaluation and Review Techniques. CPM - Critical Path Method. PDM - Precedence Diagramming Method. Matrix diagram. Gantt diagram.			
Required Reading: Relevant literature in English, tbd			
Weekly Contact Hours:2	Lectures: 2	Practical work: 0	
Teaching Methods: Teaching is conducted through lectures and practical computer classes. Lectures combine theory and practical examples, giving basic concepts and theoretical background for the use of various project management tools and techniques, along with the occasional visits of guest lecturers from industry. Practical computer classes are dedicated to group or individually work on a specific project assignments and tasks, in order to practice the usage of various project management tools and techniques.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Attendance			
Computer exercises			
Tests (4x)			

