

Study Programme: Engineering Management			
Course Unit Title: Production planning and control			
Course Unit Code: IM1101			
Name of Lecturer(s): Branislav Stevanov			
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: 6			
Prerequisites: none			
Course Aims: The goal of course is to master the basic knowledge in the field of production planning and control processes in product and service companies and the acquisition of competencies for the implementation of modern systems for planning, directing and controlling the flow of work processes in real companies, as well as integration with other enterprise systems.			
Learning Outcomes: Students will be able to: understand the structure of work processes and their interconnections, and other functions related enterprises; modeling system for managing work processes; apply their theoretical knowledge and experience from a number of practical examples processed at solving the problems of planning and managing work processes.			
Syllabus. Production management needs. The principles of process management. Systems for production management. PBC approach. MRP approach. Just-in-Time - Kanban approach. IIS approach in the management of work processes. The modules of the system for managing work processes. Information systems for the management of work processes. Basics of ERP systems. SAP PP - planning and execution of production. IIS application software for managing work processes. The use of an SAP PP in the chosen production system. Case Studies - IIS application software implementation of the selected production system.			
Required Reading: Relevant literature in English, tbd			
Weekly Contact Hours:2	Lectures: 3	Practical work: 0	
Teaching Methods: To achieve the set goals of education in the learning process using a combination of lectures, laboratory exercises, and auditory and case studies supported by installed applications (IIS - software for managing work processes, SAP PP applications for planning and managing production.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Attendance			
Computer exercises			
Tests (4x)			

