

Course Unit Descriptor

Study Programme: Production Engineering			
Course Unit Title: Machines and Devices for Plastic Processing			
Course Unit Code: P3503			
Name of Lecturer(s): Milutinović Mladomir, Vilotić Dragiša			
Type and Level of Studies: Bachelor level			
Course Status (compulsory/elective): compulsory			
Semester (winter/summer): Winter/Summer			
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: Mastering the content in the field of machines and devices for plastic processing.			
Learning Outcomes: Knowledge gained in this field enables proper selection of machines for plastic processing, determination of optimal machine parameters and design and calculation of machine components			
Syllabus: Introduction to plastic shaping machines. Different variants of machines for plastics. The structure of machines for plastic shaping. Types of machines and equipment for plastics. Machines for continuous manufacturing processes (calendering, extrusion, etc..). Machines for plastic shaping with cyclical effect. Machines for plastic injection molding. Hot forming machine for plastic. Equipment for joining and welding of plastic materials. Additional equipment for plastic processing.			
Required Reading: Relevant literature in English TBD			
Weekly Contact Hours:	Lectures:	Practical work:	
Teaching Methods: Teaching is performed interactively in lectures and exercises. In the lectures certain types of plastic shaping machines are taught, in terms of their use and the appropriate choice of technology in the design process. Detail structure of certain types of machinery and equipment for plastics processing is also described. In exercises, the design of plastic manufacturing processes and the selection of appropriate equipment for plastic shaping is presented. Practical and detailed introduction to certain types of machines for plastic molding is done through visits to specialized companies. Consultations are held as well.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Group Assignment		Examination Assignment	
Exercises			
Test			
Test			
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			

