

Course Unit Descriptor

Study Programme: Production Engineering			
Course Unit Title: Cutting tools			
Course Unit Code: P302			
Name of Lecturer(s): Vukelić Đorđe			
Type and Level of Studies: Bachelor level			
Course Status (compulsory/elective): compulsory			
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: Acquisition of basic knowledge in the field of design and construction, selection and operation of cutting tools.			
Learning Outcomes: Knowledge acquired through this subject enables independent design, construction, selection, operation and maintenance of all types of cutting tools.			
Syllabus: Kinematics of cutting tools. Cutting tool materials. Cutting tools for turning. Cutting tools for milling. Cutting tools for drilling. Cutting tools for boring. Cutting tools for reaming. Cutting tools for grinding. Cutting tools for broaching. Cutting tools for threading. Cutting tools for shaping and planing. Gear cutting tools. Cutting tools tribology. Cutting tools coating. Cutting Fluids. Cutting tools monitoring. Modular tooling. Cutting tools management. Cutting tools for flexible manufacturing systems. Computer aided cutting tools design.			
Required Reading: Relevant literature in English TBD			
Weekly Contact Hours:		Lectures:	Practical work:
Teaching Methods: Lecture forms: lectures, auditory, laboratory and computer practical classes, consultations.			
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.			