Course Unit Descriptor

Study Programme: Production Engineering			
Course Unit Title: Integrated CAPP Systems and Technological Database			
Course Unit Code: P1403			
Name of Lecturer(s): Milošević Mijodrag			
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: 4			
Prerequisites: None			
Course Aims: Students learn to solve tasks of manufacturing and assembly process planning of products			
Learning Outcomes: Knowledge gained enables the use of modern approaches in quality manufacturing and assembly process planning of the product, as well as the improvement of existing process plans.			
Syllabus: Introduction in process planning. Technical preparation of production. Technologcal preparation of production . Product as an object of production. Technical and technological documentation. Manufacturing process planning and assembly. Technological database. Analysis manufacturability of product. Workpieces. Allowance. Accuarcy of machining and assembly. Optimization of process plan. Possibility to increase the quality of process planning. Process planning systems and methods. Technological basis for development and implementation of flexible manufacturing systems. Rationalization of proces planning for flexible manufacturing systems. Automatization of manufacturing process planning. Basis of CAPP systems. Assembly process planning.			
Required Reading: Relevant literature in English TBD			
Weekly Contact Hours:	**Lectures:**	**Practical work:**	
Teaching Methods: Teaching is performed in the form of lectures, auditory and laboratory and computer exercices, consultations and company visits. During lectures theoretical part is presented with appropriate practical examples. Within auditory exercices work assigments, as well as appropiate graphic works. On laboratory exercises practically apply their acquired knowledge on the available laboratory equipment. In order to expand practical knowledge, various companies are visited. Within computer pratical classes performed training students in the application of inforamtion technology in the teaching observed field. Besides, regularly consultations are held in order to move closer teaching material and making appropriate graphic works. Colloquia are written and related to theoretical part of material. Written exam within which works appropriate tastks			
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.			