Course Unit Descriptor

Study Programme: Production engineering

Course Unit Title: Process Planning

Course Unit Code: P308

Name of Lecturer(s): Milošević Mijodrag, Lukić Dejan

Type and Level of Studies: bachelor

Course Status (compulsory/elective): compulsory

Semester (winter/ summer): 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:.

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:
Scallan, P. Process planning: The Design/Manufacture interface MA: Butterworth-Hienemann, Boston 2003
Tlusty, G. Manufacturing processes and equipment Prentice Hall, New Jersey 2000

Weekly Contact Hours: 3	**Lectures: 3**	**Practical work: 0**

Teaching Methods:
Teaching is performed in the form of lectures, auditory and laboratory and computer exercices, consultations and company visits

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	**Final exam**	points
Attendance			
Computer exercises			
Tests (4x)			