

## **UNIVERSITY OF NIŠ**

Course Unit Descriptor		Facult	:y	Faculty of Me	chanical Engineering	
GENERAL INFORMATION						
Study Program	Engineer	Engineering Management				
Study Module (if applicable)	-					
Course Title	Production	Production and service systems				
Level of Study	Bachelor	⊠Bachelor		☐ Master's		
Type of Course	⊠ Obligato	⊠ Obligatory		Elective		
Semester	🛛 Autumn	🛛 Autumn				
Year of Study	11					
Number of ECTS Allocated	8					
Name of Lecturer/Lecturers	Rado M. M	Rado M. Maksimovic				
	⊠ Lecture:	5	🛛 Grou	ıp tutorials	Individual tutorials	
Teaching Mode	□ Laboratory work		🗆 Proj	ect work	🖾 Seminar	
	□ Distance learning		🗆 Blen	ded learning	□ Other	
Purpose and Overview (max. 5 s	entences)					
The course oriented to systematic or services) in varios types of prod design of production or service p successfully completion of this con flows in the production or service	research and duction or serv production str urse are: the k systems and c	study of convice systems. vice systems, and uctures, and nowlwege ar lesing of it's s	nplete tra The goal defiing o nd ability ; space sche	nsformaion pr of course are s f it's characte for use of for d edule (lav-out).	ocess (from inpuut resources to products tudent's acquisition for development and ristics. Final student's competitions after esing of material, energy and information	
Syllabus (brief outline and summ	nary of topics,	, max. 10 sen	tences)			
Lectures: (1) The basic element systems development; (3) Prodc (5) Production/service work prod (7) General model of produc	s of producti t/service and p ces and capac tion/service	on and busi production/s ity of suster flows; (8)	iness syst ervice pro n's eleme Balancing	ems; (2) The ogram; (4) Diff nts; (6) The a ; of product	conditions of production and business erences between products and services; proches for system's structure designig; ion/service flows; (9) Assessment of	

production/service inows, (g) balancing of production/service nows, (g) Assessment of production/service system elements; (10) Design of production/service system lay-out; (11) Energy and infoirmation flows in production/service systems; (12) Production/service system location; (13) Simulation of production/service systems work. Group tutorials are include exercises - solving of various problems related on product/service and production/service program, production/service flows and design of production/service system lay-out. Seminar include an interactive analysis and elaboration of real case of production/service system. Seminar based on team work.

Language of Instruction			
Serbian (complete course)	⊠ English (complete course)	Other	(complete course)
□Serbian with English mentoring	□Serbian with other mentoring		

Assessment Methods and Criteria					
Pre exam Duties	Points	Final Exam	Points		
Activity During Lectures	10	Written Examination	60		
Practical Teaching	30	Oral Examination	-		
Teaching Colloquia (not obligatory)	(60)	Overall Sum	100		
*Final examination mark is formed in accordance with the Institutional documents					