

## **UNIVERSITY OF NIŠ**

Course Unit Descri	ptor	Facult	ÿ	Faculty of Me	chanical Engir	ieering		
GENERAL INFORMATION								
Study Program	Mechanical Engineering							
Study Module (if applicable)	-							
Course Title	Basics of product development							
Level of Study	Bachelor		🗆 Mas	] Master's 🛛 Doctoral				
Type of Course	□ Obligatory		🛛 Eleo	⊠ Elective				
Semester	🛛 Autumn		🗆 Spri	ing				
Year of Study	IV							
Number of ECTS Allocated	7							
Name of Lecturer/Lecturers	Miloš D. Milovančević, Aleksandar V. Miltenović							
	⊠ Lectures		🗌 Grou	ıp tutorials	🗆 Individual	l tutorials		
Teaching Mode	🛛 Laborato	ory work	🛛 Proje	ect work	🛛 Seminar			
	Distance	learning	🗆 Blen	ded learning	□ Other			
Purpose and Overview (max. 5 se	intences)							
Student who put this course will b features, physical effects and shap functions	e able to: succo es; develops si	essfully defir tructural soli	ne develop ution and	oment project; verifies it with	Model technic the point of ex	al system in the field o xecution of the basic	of	
Syllabus (brief outline and summ	ary of topics,	max. 10 sen	tences)					
Theoretical study. Introduction. T principle functioning. The importa methods in product development performance of the product). Me structure. Hierarchical reading sys technical system. Modelling techn and principles. The place and role Morphology and conceptual deve concept. Reconciliation of partial students) students on the develo	he position of ance of machin c (planning and chanical syste stem. Form de nical systems i of design in p clopment. Fun solutions and pment of innc	f engineers i ne elements d analysis ob mas an obje escription an in the field o product deve damentals o partial func ovative proje	n the indu in produ- ojectives: ect of pro od present f features elopment. develop an tion. The ect assign	istry. Example ct developmen the search for duct developm tation of techr s, physical effe Basic formatt n overall conce combination concret	s of future tec nt. Methods. R alternative so nent. Mechani nical systems. <i>I</i> ects and shapes ing rules. The ept. Methods fo f partial soluti is products.	hnologies. The new eview and selection lutions; determining cal systems - definitio Modelling the structu s. Design - the basic principles of design. for determination of ions. Teamwork (3 to	the on and ure of rules total o 6	
Language of Instruction		. ,	0					
⊠Serbian (complete course)	🖂 Eng	lish (comple	te course	) 🗆 Ot	ther	(complete cou	ırse)	
□Serbian with English mentoring	. □Serb	ian with oth	er mento	ring				

**Assessment Methods and Criteria** 

Pre exam Duties	Points	Final Exam	Points				
Activity During Lectures	5	Written Examination	50				
Practical Teaching	10	Oral Examination	Max. 35 (depending on Teaching Colloquia)				
Teaching Colloquia	35	Overall Sum	100				
*Final examination mark is formed in accordance with the Institutional documents							