

UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	Fac	culty of Me	chanical Engineering		
GENERAL INFORMATION		1					
Study Program	Mechanical Engineering						
Study Module (if applicable)	-						
Course Title	Mechanical and Hydromechanical operations						
Level of Study	Bachelor Doctoral						
Type of Course	□ Obligatory						
Semester	□Autumn ⊠ Spring						
Year of Study	111						
Number of ECTS Allocated	6						
Name of Lecturer/Lecturers	Velimir P. Stefanović						
	⊠ Lectures		Group t	utorials	🗆 Individual tu	itorials	
Teaching Mode	🛛 Laborato	ory work 🛛 🖂	Project	work	🛛 Seminar		
	□ Distance learning		Blended	l learning	□ Other		
Purpose and Overview (max. 5 sentences)							
Advancing the students' knowleds and study of commonly used princ techniques and new trends in the of calculation for commonly used	ge on topic of iples in mech area. After th mechanical ai	f mechanical and anical and hydro e final exam the nd hydromechar	l hydrom omechan student nical ope	echanical c ical operat s will be ab rations in e	operations in pro- ions. Students ga le to independer ngineering pract	cess and other indus ain broad review of a ntly apply methodolo ice	try II vgy
Syllabus (brief outline and summa	ary of topics,	max. 10 sentenc	es)				
 Introduction, definition and div granulation, 3) Classification an precipitation 7) Fluid flow thro centrifugal filters, 9) Separation properties of aerosol systems a Physical basis of separation of operations 	ision of mec d sorting, 4) ugh porous e n of gaseous and wet dedu aerosol parti	hanical and hyc Mixing and fluic environments ar heterogeneous isters, 11) Physic icles in wet ded	dromecha dization, nd filtrati systems, al basis o lusters, 1	anical oper 5) Hydrom on, 8) Sele 10) Dedus of separatio 3) New tre	rations, 2) Mode echanical operat ected chapters o ting of gases by on of aerosol par ends in mechanic	ern methods of mat ions, 6) Hydrokinetic f the centrifugation wet processes – ger rticles from gas flow cal and hydromechar	erial cs of and neral ', 12) nical
Language of Instruction							
⊠Serbian (complete course)	⊠ <mark>Engl</mark>	lish (complete co	<mark>ourse)</mark>	□ Ot	her	(complete course	e)
□Serbian with English mentoring	oring Serbian with other mentoring						
Assessment Methods and Criteria	a						

Pre exam Duties	Points	Final Exam	Points				
Activity During Lectures	5	Written Examination	60				
Practical Teaching	5	Oral Examination	Max. 30 (depending on Teaching Colloquia)				
Teaching Colloquia	0	Overall Sum	100				
*Final examination mark is formed in accordance with the Institutional documents							