

UNIVERSITY OF NIŠ

Course Unit Descriptor		Facult	y ⊧	aculty of Me	chanical Engineering		
GENERAL INFORMATION							
Study Program	Mechanical Engineering						
Study Module (if applicable)	-						
Course Title	Computer design of power engineering systems						
Level of Study	Bachelor Doctoral						
Type of Course	Obligatory Elective						
Semester	⊠ Autumn □ Spring						
Year of Study	ш						
Number of ECTS Allocated	6						
Name of Lecturer/Lecturers	Živojin M. Stamenković						
	⊠ Lecture	☐ Group tutorials ☐ Individual tutorials					
Teaching Mode	🛛 Laborat	🛛 Laboratory work		ct work	Seminar		
	□ Distance learning		🗆 Blend	ed learning	□ Other		
Purpose and Overview (max. 5 se	entences)						
-					h are used for design of power engineerin actical aspects of the power engineerin		
Syllabus (brief outline and summ	ary of topics	, max. 10 sent	tences)				
3) Software for engineering calcu software: AutoCAD, SolidWorks, examples of claculation. 7) Basic Calculation of flow, pressure and	lations 4) So ANSYS, Excel elements in p losses in the ri tubes, nozz	ftware for nu , Mathcad, M ower engined pipeline distri les) 9) Pum	merical sin atlab, AFT ering syste ibution sys nps in the p	nulation of flu FATHOM. 6) ems. The stan- stems and ele	generation of technical documentation uid flow. 5) Review of enegineering The methods used in the software, dards and calulation procedures. 8) ments used in power systems (valves, a closed circulation circuit. 9) Software		
Language of Instruction							
⊠Serbian (complete course)	🗆 Eng	glish (complet	te course)	□ Ot	her (complete course)		
Serbian with English mentoring Serbian with other mentoring							
Assessment Methods and Criteria							
Pre exam Duties	Poin	ts Final Exan	n	Points			

Lecture (participation) + Homework	5 + 5	Written Examination	o* (50)			
Laboratory	10	Oral Examination	Max. 30			
Two midterm exams	50	Overall Sum	100			
* Refers to students who have already gained points by completing pre-exam requirements						