

UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	Faculty of Me	echanical Engineering		
GENERAL INFORMATION						
Study Program	Mechanical Engineering					
Study Module (if applicable)	-					
Course Title	Thermal Comfort					
Level of Study	□ Bachelor □ Master's ⊠ Doctoral					
Type of Course	□ Obligatory					
Semester	🛛 Autumn 🗆 Spring					
Year of Study	11					
Number of ECTS Allocated	10					
Name of Lecturer/Lecturers	Gradimir S. Ilić, Velimir P. Stefanović, Mladen M. Stojiljković, Predrag M. Živković					
Teaching Mode	⊠ Lectures	🗆 Gr	oup tutorials	Individual tutorials		
	🗆 Laborato	ry work 🛛 🖾 Pro	oject work	Seminar		
	□ Distance	learning 🛛 🗆 Ble	nded learning	□ Other		
Purpose and Overview (max. 5 sentences)						
Thermal comfort is one of the most influential elements of the condition and quality of living and working space. Therefore it is very important to introduce the candidate to the definition and determination, both experimentally and numerically, of thermal comfort parameters and indicators in order to further train in the field of HVAC technology.						
Syllabus (brief outline and summary of topics, max. 10 sentences)						
 Introduction, basic concepts ar body heat flux – defining all heat l comfort equation – Fanger equa parameters; Thermal comfort indic thermal comfort equation applicat cold surface, paint, air pressure); 2 PPD - indices; 5) Measuring methor from the human body surface; De Thermal environment condition ar 	nd definitions osses and gai ation; Te Diag ces PMV, PPD tion (ethnic, g a) Practical me ods of microcle etermination of nalysis in term	of thermal comforms of human body grams of thermal and their mutual re- geographic, age, sea ethods of thermal limate parameters of the angular factors of the angular factors	rt as the condi neat balance. 3 comfort defini lations; The imp body type, die urroundings ev Defining mean tor (configurat	ition of thermal environment. 2) Human Oconditions of thermal comfort: Thermal ing intercorelations of thermal comfort bact of other factors on the scope of the et, asymmetric heating or cooling, hot or valuation: Defining PMV - indices; Defining radiant temperature; Radiative heat loss ion factor) of the system one-room. 6)		

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

Assessment Methods and Criteria				
Pre exam Duties	Points	Final Exam	Points	
Activity During Lectures	-	Written Examination	-	
Practical Work	70	Oral Examination	Max. 30	
Teaching Colloquia or Seminar	-	Overall Sum	100	
*Final examination mark is formed in accordance with the Institutional documents				