	М	M3443		
Study program / course: N	Iechanical Engine	ering		
Type and level of study: N	Iaster academic s	tudies		
Course: Devices and Plant	s for Heating and	Air Conditi	ioning	
Lecturers: Bojic Lj. Milor				
Status of course: Elective f		I semester		
Number of ECTS: 6	•/			
Precondition: none				
The objective of course: Education objective is to introd heating, and air conditioning.	luce student with cha	aracteristics, d	esign, and analyses of in	nstallations for
The outcome of course				
Based on obtained knowledge,	students will be qua	lified to desig	n and analyze operation	of installations for
heating and air conditioning.	1	0		
Syllabus				
HEATING: Panel heating. C	eiling heating. Floo	r heating. Ste	eam heating of low pres	sure. Vacum
heating. Heating by using heat				
AIR CONDITIONING: Air o		s and their d	evices: (central, zone, o	ne channel with
high pressure, two channel air-				
Software: EnergyPlus and Ge				f 1 h t ²
During their exercises in comp of some family house, or air co				
Genopt. On one field and one 1				
conditioning and measure there				neating, and an
Recommended reading			-	
[1] Todorovic, B., Design of I	Plants for central hea	ting (in Serbia	an), Mechanical enginee	ering Faculty at
Belgrade, XI edition, 2005.		e x		0
[2] Todorovic, B., Air Conditi	oning (in Serbian), S	MEITS, II ed	ition, 2005.	
[3] Chadderton, D., Building S	ervices Engineering,	E & FN SPO	N, London, 2000.	
The number of hours of active teaching:			Other classes:	
Theory: 3 Practical	Other forms of tea	ching: 0.6	Research study: 0	1
classes: 1.4				
Methods of teaching				
lectures, laboratory exercises, p				
		n of knowled		
Pre-final exam obligatio		Fina	l exam	points
Activities during lectures:	5	oral e	exam	30
Activities during practical	5			
classes:				
Colloquiums(s) :	30			
Project(s)	30			