

SYLLABUS

Basic data of the subject	
Faculty:	Faculty of Engineering and Informatics
Title of the subject:	Heating and ventilation
Level:	Bachelor
Course Status:	Elective
Year of studies:	III
Number of hours per week:	3
Value of Credits - ECTS:	4
Time/ location:	
Course lecturer:	Mr. sc. Ismet Malsiu
Contact details:	ismet.malsiu@ushaf.net
Course description	
Course description	<p><i>This course will introduce students to the basics of heating and ventilation, including: the required amount of heat needed for heating; Calculation of heat loss; Instructions for the calculation of the required amount of heat needed for heating; Thermal insulation; Heating devices; Furnaces; Usage of flammable substances; Chimney; Calculation of chimney; Steam heating; Air source heat pumps; Ventilation. The necessary change of air; Ventilation; Ventilation installation process; Ventilation systems; Air cooling and ventilation equipment; Other necessary equipment, etc.</i></p> <p><i>Each unit that this course includes will be illustrated through discussions and examples from the corresponding field. Students will also be able to practice the things they learn about by visiting institutions, factories and industrial enterprises where such systems are installed. Also, students will have a chance to visit places where the above mentioned equipment is sold.</i></p>
Course objectives:	<p><i>The main objective of this course is to provide students with basic knowledge on heating and ventilation, such as the calculation and application of the systems in private and public buildings.</i></p>
Expected learning outcomes:	<p><i>Upon After successful completion of the course, students will be able to:</i></p> <ul style="list-style-type: none"> <i>• know about heating and heating elements</i> <i>• calculate the amount of heat required for heating, heating apparatus</i> <i>• understand central heating and heating systems</i> <i>• Understand the ventilation of buildings</i>

Contribution to the student load (which must correspond with learning outcomes)			
Activity	Hours	Days/weeks	Total
Teaching	3	15	45
Internship			
Contacts with teacher / consultations	1	2	2
Field exercises			
Midterm, seminars and projects.			
Homework			
Studying (at the library or at home)	3	15	45
Final preparation for the exam	2	5	10
Time spent on evaluation (tests, quiz and final exam)	2		2
Projects and presentations			
Total			104
Teaching methodology:			
	<i>Lectures and exercises, combined with case studies and class discussions, assignments, projects, engineering experience which includes visiting institutions, factories or industrial economic enterprises where the systems are installed. Also, students will visit places where such equipment is sold.</i>		
Assessment methods:			
	<i>Final exam is worth 100% of the grade. This exam includes the test, project/assignment evaluation as well as the performance during the engineering experience.</i>		
Literature			
Basic literature:			
	1. Prof. dr. sc. FEJZULLAH KRASNIQI; Mr. Sc. REXHEP SELMANAJ; Inxh.i dipl. ISMET MALSIU, INSTALIMET MAKINERIKE		
Additional literature:			
	1. Krasniqi, F.: „NGROHJA DHE KLIMATIZIMI – I (Ngrohja)”, Universiteti i Prishtinës, Prishtinë 2. 2. Krasniqi, F.: „NGROHJA DHE KLIMATIZIMI – II (Ventilimi dhe klimatizimi)”, Universiteti i Prishtinës, Prishtinë 3. 3. Krasniqi, F.; Sahiti, S.: „NGROHJA DHE KLIMATIZIMI (Përmbledhje detyrash- I)”, Universiteti i Prishtinës, Prishtinë 4. Voshtina , L: NGROHJA, VENTILIMI DHE KLIMATIZIMI I NDËRTESAVE, BT,Tiranë		
Designed learning plan:			
Week	Lecture		
Week one:	<i>HEATING. Basic understanding and information.</i>		
Week two:	<i>The required amount of heat for heating</i>		
Week three:	<i>Instructions on the calculation of the amount of heat needed</i>		

	<i>for heating; Thermal insulation</i>
Week four:	<i>Heating devices</i>
Week five:	<i>Furnaces</i>
Week six:	<i>Usage of flammable substances; Chimney</i>
Week seven:	<i>Revision</i>
Week eight:	<i>Central heating.</i>
Week nine:	<i>Steam heating; Air heating</i>
Week ten:	<i>VENTILATION. The necessary change of air;</i>
Week eleven:	<i>Classification of ventilation</i>
Week twelve:	<i>Air conditioning</i>
Week thirteen:	<i>Air conditioning installation</i>
Week fourteen:	<i>Air cooling and ventilation equipment; Other necessary equipment</i>
Week fifteen:	<i>Review</i>

Academic policies and rules of conduct:

Attendance, appropriate behavior in class, participation in class activities, as well as submission of the project-assignment and maximal dedication to the engineering experience are all mandatory.