Tests (4x)

Study Programme: Env	vironmer	ntal Engineering	And Occupationa	l Safety	Engineering				
<b>Course Unit Title: Intr</b>	oduction	to Thermodynan	nics						
Course Unit Code: M3	O21								
Name of Lecturer(s): T	omić Ml	aden							
Type and Level of Stud	lies: bach	elor							
Course Status (compulsory/elective): compulsory									
Semester (winter/ summer): winter									
Language of instruction: english									
Mode of course unit delivery (face-to-face/distance learning): face-to-face									
Number of ECTS Allocated: 5									
Prerequisites: none									
Course Aims:									
Introducing thermodynamic structure, thermodynamic concepts and methods for solving problems of energy									
conversion.									
Learning Outcomes: Acquiring basic knowled designing thermal machi	-	-	cs of thermal powe	r enginee	ering, thermal process engineering and				
The zero law of thermod Heat capacity. Mayer's e diagram, work, and thern and imposible process. To cycle. Carnot cycle. The thermodynamics. Enthro clockwise cycles. Entrop Entropy change of an iso Required Reading:	ynamics. quation. ' modynam 'hermody rmal effic py chang by change blated the	Ideal gas law. Con The first law of the ic process in p-v d namic cycle. Prop ciency. The concept e of ideal gases. H of a thermodynan rmodynamic cycle	nservation of energermodynamics for liagram. The second erties of state for a sot of entropy. The leat, T-s diagram, anic system. The se	gy. The case a closed and law of thermodernathema and thermodernathema cond prires.	state. Equilibrium, change of state, process. concept of energy. Internal energy. Enthalpy. and open thermodynamic system. p-v thermodynamics. Reversible, irreversible dynamic cycle. Clockwise thermodynamic tical expression of the second principle of nodynamic process in T-s diagram. Counternciple of thermodynamics for a cycle.				
Relevant literature in English, tbd									
Weekly Contact Hours	: 2	Lectures: 2		Practic	al work: 2				
Teaching Methods: Lectures and auditory prindependence in solving Knowledge Assessment	assignme	ents.		l include	the advanced level of students`				
Pre-exam obligations	points	um or roo points)	Final exam		points				
Attendance	Pomis		I mai cami		Ponto				
Computer exercises									
COLLINGUE CHOLOLOGO	i		i		1				