

a) General			
<i>School</i>	ENGINEERING		
<i>Academic unit</i>	MECHANICAL ENGINEERING		
<i>Level of studies</i>	Undergraduate		
<i>Course code</i>	MM006Y06	<i>Semester</i>	6
<i>Course title</i>	English Language & Technical Terminology		
<i>Independent teaching activities</i>		<i>Weekly teaching hours</i>	<i>ECTS</i>
Lectures		3	4
Laboratory exercises		-	
<i>Course type</i>	Special background		
<i>Course category</i>	Compulsory		
<i>Prerequisite courses</i>	-		
<i>Language of instruction and examinations</i>	English		
<i>Is the course offered to Erasmus students</i>	Yes		
<i>Course website (url)</i>			
b) Learning outcomes and general competences			
b1. Learning outcomes			
<p>Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> - Acquire and use technical vocabulary, terminology and structure connected to the field of Mechanical Engineering - Extract specific information from texts about components, devices, structures, and processes - Identify devices, components, structures, processes and explain their function - Understand the structure and function of devices and components - Recognize differences between types of devices and components - Understand the relation between structures, components and processes - Understand the features and technical specifications of different components and devices - Describe devices, components, structures, and processes - Discriminate between different types of processes 			
b2. General competences			
<ul style="list-style-type: none"> - Search for, analysis and synthesis of data and information with the use of the necessary technology - Adapting to new situations - Working independently - Team work - Working in an international environment - Respect for difference and multiculturalism - Respect for the natural environment - Showing social, professional and ethical responsibility and sensitivity to gender issues - Criticism and self-criticism - Production of free, creative and inductive thinking - Others 			
c) Syllabus			
Energy, Heat and Work, Material Properties, Stress analysis, Boiler operation, Stationary/Moving Parts of an Engine, Principles of an Internal Combustion Engine, Tribology, Lubricating Systems,			

Fluid Heat Transfer, Thermodynamics, Computer-aided Manufacturing – Computer Numerical Control, Mechatronics, Control Systems, Dc Generators, Clean Coal Technology, Alternative Sources of Energy, Flat Plate Collectors-Collecting the heat, Solar Radiation-Solar Radiation Measurement, Engineering and the Earth's Resource, Air conditioning systems, Refrigeration systems		
d) Teaching and learning methods - Evaluation		
Delivery	Face-to-face, Distance learning, etc.	
Use of information and communications technology	- Multimedia applications - eclass	
Teaching methods	<i>Activity</i>	<i>Semester workload</i>
	Lectures	39
	Tutorials	
	Laboratory exercises	0
	Computational exercises	0
	Individual work	65
	Course total	104
Student performance evaluation	Intermittent assessment and final written examination	
e) Suggested bibliography		
1 Authentic Reading Texts		
2 E.A. Avallone and T. Baumeister, 1987, Mark's standard handbook for Mechanical Engineers, 9 th edition		
3 M.W. Zemansky, 1981, Heat and Thermodynamics, 6 th edition		
4 Robert L. Norton, 1998, Machine design, Ed. Prentice Hall		
5 CM and Johnson, 1989, General Engineering, Ed. Cassell.....		