#### **COURSE OUTLINE**

### (1) GENERAL INFORMATION

SCHOOL	FACULTY OF ENGINEERING				
DEPARTMENT	ELECTRICAL AND COMPUTER ENGINEERING				
LEVEL OF STUDIES	POSTGRADUATE				
COURSE CODE	B1 SEMESTER 2nd				
COURSE TITLE	Mechatronics Project				
COURSEWORK BRE	AKDOWN		TEACHING WEEKLY HOURS		ECTS CREDITS
(e.g., lectures/laboratory work)			6		10
Add extra space if necessary					
COURSE TYPE	Compulsor	У			
Scientific field	-				
special knowledge  Development of special skills					
PREREQUISITES:					
LANGUAGE OF INSTRUCTION and	Greek				
EXAMS:					
COURSE AVAILABLE TO ERASMUS	no				
STUDENTS:					
COURSE WEB PAGE (URL)	https://eclass.uowm.gr/courses/MPE104/				

#### (2) LEARNING OUTCOMES

#### **Learning Outcomes**

Upon successful completion of the course, students will acquire knowledge and understanding of the following topics:

- Understanding of the mechatronic approach to system design.
- In-depth understanding of the concepts of the approach to mechanical systems design
- In-depth understanding of the concepts of mechanical engineering and the understanding of the principles of mechanical engineering, including the understanding of the concepts of automation, sensors and other electronic devices in integrated systems.

General Skills		

Searching, analysing and synthesising data and informate technologies.  Desicion making	tion, using the necessary
Decision-making. Teamwork.	
Generating new research ideas	
Project planning and management	
(3) COURSE CONTENT	
Extensive team study and design of an electromechanic design methods. The study includes detailed specification	_
design, electrical and energy analysis and design, selection electronic subsystems, simulation of system operation at technical study.	
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# (4) TEACHING and LEARNING METHODS - ASSESSMENT

COURSE DELIVERY MODE lectures, face-to-face, distance learning etc.	Lectures and tutorials		
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY e.g. use of audiovisual media and computers etc.	Support of learning process through e-class platform.		
TEACHING METHODS  Derailed description of the teaching methods used:  Lectures, Seminars, Laboratory exercises, Study & bibliography analysis, Tutoring, Internship/Practicum, Art Workshop, Interactive Teaching, Projects, Written Assignments, Artistic creation etc.  Study hours for each learning activity are included along with the non-guided study hours according to the ECTS principles	Method Description Lectures Team Project	Semester workload 50 200	
ASSESSMENT METHODS AND CRITERIA  Description of the assessment methods and criteria:  Language of Assessment, Assessment Methods, Formative or Concluding Assessment, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Reports, Oral Exam, Essay, Oral Presentation, Clinical Examination of patient, Artistic Performance, Others  Assessment criteria are explicitly defined and stated.	Group work 80% Final Oral Examination 209	%	

## (5) RECOMMENDED BIBLIOGRAPHY

- Recommended Bibliography:
Dan Necsulescu, "Mechatronics", Εκδόσεις Τζιόλα.