1st Semester

COURSE OUTLINE BASIC PRINCIPLES OF CIVIL PROTECTION AND DISASTER MANAGEMENT

1. GENERAL

SCHOOL	SCHOOL OF ENGINEERING		
DEPARTMENT	PREVENTION AND MANAGEMENT OF CRISIS AND DISASTERS: INNOVATIVE TECHNIQUES IN CIVIL PROTECTION		
LEVEL OF STUDIES	ISCED level 7 – Master's or equivalent level		
COURSE CODE	CP01	**SEMESTER**	1th Semester
COURSE TITLE	Basic Principles of Civil Protection and Disaster Management		

TEACHING ACTIVITIES *If the ECTS Credits are distributed in distinct parts of the course e.g. lectures, labs etc. If the ECTS Credits are awarded to the whole course, then please indicate the teaching hours per week and the corresponding ECTS Credits.*	**TEACHING HOURS PER WEEK**	**ECTS CREDITS**
	3.0	6.0
Please, add lines if necessary. Teaching methods and organization of the course are described in section 4.		

COURSE TYPE *Background, General Knowledge, Scientific Area, Skill Development*	Scientific Area
PREREQUISITES:	NO
TEACHING & EXAMINATION LANGUAGE:	Greek, English
COURSE OFFERED TO ERASMUS STUDENTS:	YES
COURSE URL:	https://eclass.duth.gr/courses/

2. LEARNING OUTCOMES

Learning Outcomes

Please describe the learning outcomes of the course: Knowledge, skills and abilities acquired after the successful completion of the course.

At the end of the course, the student should be able to:

- *Understand the basic principles and legal framework of civil protection at national, European, and international levels.*
- *Recognize major natural, technological, and human-induced hazards and their impacts on society and the environment.*
- *Familiarize with the processes of planning and implementing risk and disaster management strategies.*
- *Develop decision-making skills in critical situations, considering scientific data and operational needs.*
- *Apply modern methodologies and technologies for disaster monitoring, prevention,*

and response (GIS, early warning systems, risk modeling).
- *Collaborate effectively in interdisciplinary and international environments, contributing to the planning and implementation of civil protection plans.*
- *Demonstrate social, ethical, and professional responsibility in crisis management and emergency situations.*
- *Analyze and evaluate real disaster cases, deriving useful conclusions for improving policies and response measures.*

General Skills

Name the desirable general skills upon successful completion of the module

Search, analysis and synthesis of data and information,	*Project design and management*
ICT Use	*Equity and Inclusion*
Adaptation to new situations	*Respect for the natural environment*
Decision making	*Sustainability*
Autonomous work	*Demonstration of social, professional and moral responsibility and sensitivity to gender issues*
Teamwork	*Critical thinking*
Working in an international environment	*Promoting free, creative and inductive reasoning*
Working in an interdisciplinary environment	
Production of new research ideas	

- Search, analyze, and synthesize data and information using appropriate technologies.
- Adaptation to new situations.
- Decision-making.
- Independent work.
- Teamwork.
- Working in an international environment.
- Working in an interdisciplinary environment.
- Generating new research ideas.
- Project design and management.
- Respect for diversity and multiculturalism.
- Respect for the natural environment.
- Demonstrating social, professional, and ethical responsibility and sensitivity on gender issues.
- Critical and self-critical thinking.
- Promoting free, creative, and inductive thinking.

3. COURSE CONTENT

The course aims to provide participants with the necessary knowledge and skills to understand, analyze, and effectively manage disasters, as well as implement strategies for prevention, preparedness, response, and recovery in emergency situations.

Main objectives:

- ***Education and Awareness:*** *Raise awareness on the importance of civil protection and the need for prevention and preparedness against natural, technological, and human-induced disasters.*
- ***Crisis Management Skills Development:*** *Prepare participants for effective crisis management during disasters by implementing operational plans and coordinating responsible agencies and services.*

- ***Understanding Legal and International Regulations:*** *Explain the legal framework governing civil protection and international cooperation in disaster response and assistance.*
- ***Application of Innovative Technologies:*** *Highlight the significance of using new technologies (such as GIS, satellite imagery, drones, etc.) in disaster management and monitoring natural phenomena.*
- ***Development of Recovery Strategies:*** *Equip participants with knowledge on restoring affected areas and supporting impacted communities after disasters.*
- ***Building Partnerships and Networks:*** *Strengthen the need for collaboration with international organizations, NGOs, and other entities involved in civil protection and humanitarian aid.*

Indicative course topics:

- *Introduction to Civil Protection*
- *Categories of Disasters and Hazards*
- *Prevention and Preparedness*
- *Crisis Response and Management*
- *Recovery and Evaluation*
- *Volunteering and Social Participation*
- *New Technologies in Civil Protection*
- *International Cooperation in Civil Protection*

4. LEARNING & TEACHING METHODS - EVALUATION

TEACHING METHOD *Face to face, Distance learning, etc.*	Face to face
USE OF INFORMATION & COMMUNICATIONS TECHNOLOGY (ICT) *Use of ICT in Teaching, in Laboratory Education, in Communication with students*	Use of ICT in Teaching Use of ICT in Communication with students
TEACHING ORGANIZATION *The ways and methods of teaching are described in detail.* *Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research & analysis, Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning, Study visits, Study / creation, project, creation, project. Etc.* *The supervised and unsupervised workload per activity is indicated here, so that total workload per semester complies to ECTS standards.*	

Activity	***Workload/semester***
Lectures	39
Assignments	60
Study and analysis of literature	78
Exams	3
Total	**180**

STUDENT EVALUATION *Description of the evaluation process* *Assessment Language, Assessment Methods, Formative or Concluding, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Essay / Report, Oral Exam, Presentation in audience, Laboratory Report, Clinical examination of a patient, Artistic interpretation, Other/Others* *Please indicate all relevant information about the course assessment and how students are informed*	Student evaluation languages Greek English Method (Formative or Concluding) Summative Student evaluation methods Written Exams towards Solving a Problem 50% Relative use case compilation 50%

5. SUGGESTED BIBLIOGRAPHY

- Introduction to International Disaster Management – Damon P. Coppola
- Disaster Policy and Politics: Emergency Management and Homeland Security – Richard T. Sylves
- The Disaster Recovery Handbook: A Step-by-Step Plan to Ensure Business Continuity and Protect Vital Operations, Facilities, and Assets – Michael Wallace & Lawrence Webber
- Union Civil Protection Mechanism (UCPM)
- Use cases for Civil Protection. Manual Guide, Project RESISTANT (DG ECHO)