COURSE OUTLINE

(1) GENERAL

SCHOOL	Engineering			
DEPARTMENT	Electrical and Computer Engineering			
LEVEL OF STUDY	Undergraduate			
COURSE UNIT CODE	5.006	**SEMESTER OF STUDY**	5^{th}	
COURSE TITLE	Principles of Scientific Writing and Studying			
COURSEWORK BREAKDOWN			**TEACHING WEEKLY HOURS**	**ECTS Credits**
	Theory (Lectures)		2	
	TOTAL		**2**	**2**
COURSE UNIT TYPE	General Infrastructure			
PREREQUISITES	None			
LANGUAGE OF INSTRUCTION/EXAMS	Greek			
COURSE DELIVERED TO ERASMUS STUDENTS	No			
WEB PAGE (URL)	https://eclass.hmu.gr/courses/ECE139			

(2) LEARNING OUTCOMES

Learning Outcomes

Upon successful completion of the course students will be able to study and evaluate existing scientific texts as well as write their own. In particular, students will be able to:

- Search for, identify, understand and analyze scientific texts (articles, papers, proposals, etc.)
- evaluate the quality of scientific texts (measurement indicators, impact factor)
- write scientific texts using basic writing principles (structure, content, strategies, avoiding plagiarism)

General Skills

The graduates of this course will have the following general skills:

- Search, analysis and synthesis of data and information
- Work in an interdisciplinary environment
- Decision making
- Autonomous work

(3) COURSE CONTENT

- Purpose and types of scientific text
- Scientific text structure - The IMRaD method
- Search engines for scientific articles
- Bibliographic review (basic principles, methodology)
- Critical reading and subjective evaluation of a scientific text
- Basic writing principles (Structure, content, strategies)
- Submission and Review of Scientific Papers
- Plagiarism (Types, detection, effects, avoidance)
- Evaluation of scientific quality (Measurement indicators, impact factor)
- Practical instructions and examples

(4) TEACHING METHODS - ASSESSMENT

<table>
<tr><td>MODE OF DELIVERY</td><td>In-Class Face-to-Face</td></tr>
<tr><td>USE OF INFORMATION AND COMMUNICATION TECHNOLOGY</td><td>• Use of ICTs in lecturing
• Use of ICTs in laboratory-based training
• Use of ICTs for the communication with students via the e-class platform
• Support of the educational process via the e-class platform</td></tr>
<tr><td>TEACHING ORGANISATION</td><td><table><tr><th>Method description / Activity</th><th>Semester Workload</th></tr><tr><td>Lectures</td><td>26</td></tr><tr><td>Non-guided personal study</td><td>34</td></tr><tr><td>Total Contact Hours</td><td>60</td></tr></table></td></tr>
<tr><td>ASSESSMENT METHODS</td><td>Written final exam with:
• multiple choice questions
• free text questions

Assessment Language: Greek</td></tr>
</table>

(5) RECOMMENDED BIBLIOGRAPHY

- *Class Notes*
- *Girden, Ellen R. Evaluating Research Articles From Start to Finish. 2nd ed. Thousand Oaks, Calif.: Sage Publications, 2001.*
- *M. Cargill and P. O'Connor: Writing scientific research articles: strategy and steps (2nd edition) Wiley-Blackwell, Oxford, 2013.*