

## COURSE OUTLINE

### (1) GENERAL

<b>SCHOOL</b>	UNIVERSITY OF THESSALY		
<b>ACADEMIC UNIT</b>	DEPARTMENT OF CIVIL ENGINEERING		
<b>LEVEL OF STUDIES</b>	UNDERGRADUATE		
<b>COURSE CODE</b>	TK4500	<b>SEMESTER</b>	6
<b>COURSE TITLE</b>	ACADEMIC WRITING AND TECHNICAL REPORT WRITING		
<b>INDEPENDENT TEACHING ACTIVITIES</b> <i>if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i>	<b>WEEKLY TEACHING HOURS</b>	<b>CREDITS</b>	
	2	2	
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
<b>COURSE TYPE</b> <i>general background, special background, specialized general knowledge, skills development</i>	General background, skills development		
<b>PREREQUISITE COURSES:</b>			
<b>LANGUAGE OF INSTRUCTION and EXAMINATIONS:</b>	Greek		
<b>IS THE COURSE OFFERED TO ERASMUS STUDENTS</b>	No		
<b>COURSE WEBSITE (URL)</b>	<a href="https://eclass.uth.gr/courses/CIV_U_349/">https://eclass.uth.gr/courses/CIV_U_349/</a>		

### (2) LEARNING OUTCOMES

<p><b>Learning outcomes</b> <i>The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.</i></p> <p><i>Consult Appendix A</i></p> <ul style="list-style-type: none"> <li>• <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i></li> <li>• <i>Descriptors for Levels 6, 7 &amp; 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i></li> <li>• <i>Guidelines for writing Learning Outcomes</i></li> </ul>
<p>The aim of the course is to train students in the types of academic writing/research paper writing (literature review, research article, etc.) with emphasis on the writing of the thesis.</p> <p>Students will be familiarized with the ways of searching for literature through scientific databases (Scopus, Web of Knowledge), specialized databases such as ASCE (American Society of Civil Engineers), ASME (American Society of Mechanical Engineers), National Archive of Doctoral Dissertations, the base of University libraries as well as statistical databases such as the National Statistical Service, EUROSTAT, OECD, etc.</p> <p>They will also become familiar with the organization and understanding of material, the correct citation of sources, avoiding plagiarism and the use of correct academic expression.</p> <p>In addition, the aim of the course is to learn how to write a scientific structure and content of a scientific paper.</p> <p>After successful completion of the course students will be able to:</p> <ul style="list-style-type: none"> <li>- Carry out literature searches using scientific and case-specific databases.</li> <li>- To follow the appropriate bibliographic citation system (APA, Chicago)</li> <li>- Identify the key parts of a scientific paper (know the structure and key elements of a research article and be able to write a short literature review using primary sources.</li> </ul>

- Follow the code of ethics governing a scientific paper.
- Avoid plagiarism
- Use scientific discourse in writing a scientific paper.

### General Competences

*Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?*

<i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i>	<i>Project planning and management</i>
<i>Adapting to new situations</i>	<i>Respect for difference and multiculturalism</i>
<i>Decision-making</i>	<i>Respect for the natural environment</i>
<i>Working independently</i>	<i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i>
<i>Team work</i>	<i>Criticism and self-criticism</i>
<i>Working in an international environment</i>	<i>Production of free, creative and inductive thinking</i>
<i>Working in an interdisciplinary environment</i>	<i>.....</i>
<i>Production of new research ideas</i>	<i>Others...</i>
	<i>.....</i>

- Search, analysis and synthesis of data and information, using the necessary technologies
- Autonomous work
- Group work
- Working in an interdisciplinary environment
- Generating new research ideas
- Promotion of free, creative and deductive thinking
- Respect for diversity and multiculturalism
- Demonstrate social, professional and ethical responsibility

### (3) SYLLABUS

1. What is a scientific paper.
2. Types of scientific papers. Types of papers in the academic context.
3. Literature review and literature abstraction-Practical application. Searching literature in scientific and specialized databases of bibliographic sources and data-( Scopus, Web of Knowledge), specialized databases such as ASCE (American Society of Civil Engineers), ASME (American Society of Mechanical Engineers), National Archive of Doctoral Dissertations, the base of University libraries and statistical databases such as National Statistical Service, EUROSTAT, OECD etc., Practical application.
4. Scientific writing style-Basic features. Typical words and verbs in Greek and English related to the presentation of results, synthesis of opinions, etc.-Practical application.
5. Bibliographic citation systems (APA, Chicago, AIP) - Practical application.
6. Stages of writing a scientific paper (Structure of the paper - Introduction, Introduction, Methodology, Results, Discussion) - Practical application.
7. Ethics of scientific work - Avoiding plagiarism
8. Data presentation - types of graphs, tables, charts
9. Basics of statistical processing of data and extraction of possible relationships (statistical analysis, errors, correlation, regression)
10. Στοιχεία σχετικά με παρουσιάσεις επιστημονικών εργασιών και το σχεδιασμό διαφανειών. Πρακτική.

#### (4) TEACHING and LEARNING METHODS - EVALUATION

<p><b>DELIVERY</b> <i>Face-to-face, Distance learning, etc.</i></p>	Face to face	
<p><b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b> <i>Use of ICT in teaching, laboratory education, communication with students</i></p>	<ul style="list-style-type: none"> <li>- Use of slides, projector and internet in teaching</li> <li>- Teaching support using the eclass online platform</li> <li>- Communication with students via e-mail using the eclass electronic platform</li> </ul>	
<p><b>TEACHING METHODS</b> <i>The manner and methods of teaching are described in detail. Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i></p> <p><i>The student's study hours for each learning activity are given as well as the hours of non- directed study according to the principles of the ECTS</i></p>	<i>Activity</i>	<i>Semester workload</i>
	Lectures	14
	Practical exercise in the classroom	14
	Exercise implementation	12
	Final project	15
<b>Course total</b>	<b>55</b>	
<p><b>STUDENT PERFORMANCE EVALUATION</b></p> <p><b>Description of the evaluation procedure</b></p> <p><i>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open- ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<p>Delivery of a final bibliographic project on a topic of the students' choice after consultation with the instructor, which is gradually implemented in steps with small step-by-step tasks.</p>	

#### (5) ATTACHED BIBLIOGRAPHY

-Suggested bibliography:

Evodoridou E., Karakasidis Th., Academic Writing, 3rd Edition Tziola Publications (2017)  
Evodoridou E., Karakasidis Th., Writing, Ecriture, Scrittura, Tziola Publications (2015)