## COURSE OUTLINE

### (1) GENERAL

<table>
<thead>
<tr>
<th>SCHOOL</th>
<th>SCHOOL OF ENGINEERING</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACADEMIC UNIT</td>
<td>DEPARTMENT OF CIVIL ENGINEERING</td>
</tr>
<tr>
<td>LEVEL OF STUDIES</td>
<td>POST GRADUATE</td>
</tr>
<tr>
<td>COURSE CODE</td>
<td>CEM7016</td>
</tr>
<tr>
<td>SEMESTER</td>
<td>WINTER (3\textsuperscript{rd})-SPRING (4\textsuperscript{th})</td>
</tr>
<tr>
<td>COURSE TITLE</td>
<td>Dissertation</td>
</tr>
</tbody>
</table>

### INDEPENDENT TEACHING ACTIVITIES

<table>
<thead>
<tr>
<th></th>
<th>WEEKLY TEACHING HOURS</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scheduled learning and teaching</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td></td>
<td>42 (total)</td>
<td>60 (total)</td>
</tr>
</tbody>
</table>

Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).

<table>
<thead>
<tr>
<th>COURSE TYPE</th>
<th>Specialized Knowledge, skills development</th>
</tr>
</thead>
<tbody>
<tr>
<td>LANGUAGE OF INSTRUCTION</td>
<td>English (official)</td>
</tr>
<tr>
<td>EXAMINATIONS</td>
<td></td>
</tr>
<tr>
<td>COURSE WEBSITE (URL)</td>
<td><a href="http://civilmse.teipir.gr/phpbb/viewforum.php?f=18&amp;sid=084664a8abe5a7f4b5f5f981a9efd93b">http://civilmse.teipir.gr/phpbb/viewforum.php?f=18&amp;sid=084664a8abe5a7f4b5f5f981a9efd93b</a></td>
</tr>
</tbody>
</table>
(2) LEARNING OUTCOMES

**Learning outcomes**
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.

Consult Appendix A
- Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area
- Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B
- Guidelines for writing Learning Outcomes

On successful completion of the module, students will be able to:

- formulate a valid and topical research proposal relevant to their field of interest
- demonstrate, through the execution of their research project, that they can design and manage a small-scale research project competently
- collect and/or retrieve datasets competently with intelligence and rigour
- analyse datasets in a defensible manner showing understanding of research design and methodology
- conduct critical analysis and evaluation, using appropriate qualitative and quantitative methods in order to draw independent conclusions
- demonstrate an appropriate standard of literacy, scholarly writing and visual and oral presentation throughout showing a professional and ethical approach to research

**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?

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

(3) SYLLABUS

The overall aim of the module is to allow the student to develop research skills and gain an appreciation of a subject area of the students own choosing. In undertaking the work that is required they will be able to demonstrate knowledge and competence in reviewing existing published literature and data and through the use of their own efforts apply one or more of a range of research methods to collect and analyse data and draw well-founded conclusions as a result of their research. The
module allows the student to study an area of interest in significant depth and allows the student to demonstrate a clear understanding of what has been learnt through a variety of means; a literature review, a research proposal, an oral presentation and a substantial dissertation.

(1) TEACHING and LEARNING METHODS - EVALUATION

<table>
<thead>
<tr>
<th>DELIVERY</th>
<th>A combination of workshops and tutorials, electronic learning tools and independent study</th>
</tr>
</thead>
<tbody>
<tr>
<td>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</td>
<td>Supervisors will be allocated to each student in order to give advice and academic guidance</td>
</tr>
</tbody>
</table>

### TEACHING METHODS

<table>
<thead>
<tr>
<th>Activity</th>
<th>Semester workload</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures</td>
<td>42</td>
</tr>
<tr>
<td>study</td>
<td>558</td>
</tr>
<tr>
<td>Course total</td>
<td>600</td>
</tr>
</tbody>
</table>

### STUDENT PERFORMANCE EVALUATION

**Description of the evaluation procedure**

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

Specifically-defined evaluation criteria are given, and if and where they are accessible to students.

- Submission of a literature review (15 marks)
- Submission of a research proposal (10 marks)
- An oral presentation (15 marks)
- Submission of a final dissertation (60 marks)

**Total 100 marks**
### Core Text(s):

### Recommended Reading:
- Manchester, C., etc., *Exploring the Law*, Sweet & Maxwell

The final chapter, Skills Library at the University of Leeds

[http://library.leeds.ac.uk/tutorials/thefinalchapter/]