



## Course Syllabus

<b>Course Code</b>	<b>Course Title</b>	<b>ECTS Credits</b>
ARCH-590DL	Research Methodology in Design and Technology	10
<b>Prerequisites</b>	<b>Department</b>	<b>Semester</b>
None	Architecture	Fall
<b>Type of Course</b>	<b>Field</b>	<b>Language of Instruction</b>
Elective	Research	English
<b>Level of Course</b>	<b>Lecturer(s)</b>	<b>Year of Study</b>
2 <sup>nd</sup> Cycle	Dr Petros Lapithis	2 <sup>nd</sup>
<b>Mode of Delivery</b>	<b>Work Placement</b>	<b>Co-requisites</b>
Distance Learning	N/A	None

### Objectives of the Course:

The main objectives of the course are to:

- To investigate current research methods
- To propose a topic of specialisation
- To frame a research question and propose a research methodology.
- To perform literature review in a selected field and summarize findings and conclusions.
- To support the development of a thesis topic through exercises of self-reflection, critical awareness and analysis.
- To present the results of a critical evaluation and analysis of a body of knowledge, or an original contribution to knowledge, in the subject area of the scheme of study.
- To explain the understanding and interpretation of the research outcomes in relation to the research objectives.

### Learning Outcomes:

After completion of the course students are expected to be able to:

1. To extract information from selected case studies and derive a research interest
2. To suggest a system of inquiry/paradigm for a thesis topic
3. To suggest a set of strategy/method and tactic for a thesis topic
4. To suggest a research methodology for a thesis topic
5. To set the standards of a thesis topic research quality.

6. To produce work of a presentable quality that can then educate and inform other students

### **Course Contents:**

1. Introduction: general course information, detailed course outline and course assessment guide, create a general course forum, provide general information regarding the course textbook.
2. Research Interests, and Cross-cutting Methodological Issues
3. Philosophical approach vs Conceptual approach
4. Research quality standards
5. Systems of Inquiry
6. Historical-interpretive method
7. Qualitative method
8. Correlational method
9. Experimental method
10. Simulation method
11. Logical argumentation method
12. Case Studies presentation

### **Learning Activities and Teaching Methods:**

- Video recordings and online tutorials delivered by the lecturer
- Short (5-10 min) introductory video/audio recording each consequent week covering the week's topic, its importance and how this may be related to the course assessment activities (1<sup>st</sup> part/ per week).
- A more thorough video/audio recording including the week's teaching materials (2<sup>nd</sup> part/week)
- Extended lecture Notes in the form of power point with the relevant extended description at the end of each slide (2<sup>nd</sup> part/per week)
- Q&A sessions (2<sup>nd</sup> part/per week)
- Activities: Extra Readings, Quizzes, Chats related to the week's topic (3<sup>rd</sup> part/per week)
- Assessed Coursework (students are expected to complete within a given time framework): Assignments, Exercises, Case Studies, Projects
- Close monitoring of students' progress and liaise with the DL academic advisors
- Course forum
- 48hrs respond to students' enquiries
- Once a day access on the corresponding electronic platform
- Coursework & Tutorials notifications

**Assessment Methods:**

The lecture course is assessed by the submission of coursework (assignments):

- Formative assessment, assignments, individual research, presentations, feedback, discussions, final examination
- Coursework (Design Study and Final Report: Abstract, Findings, Conclusions)
- Final Exam

**Required Textbooks / Reading:**

Title	Author(s)	Publisher	Year	ISBN
Architectural Research Methods	Groat, Linda N. Wang, David	Wiley	2013	9781118418512

**Recommended Textbooks / Reading:**

Title	Author(s)	Publisher	Year	ISBN
Architectural Technology : Research and Practice (1)	Emmitt, Stephen	Wiley	2013	9781118291825
Ways to Study and Research : Urban, Architectural, and Technical Design	Voordt, D. J. M. van der Jong, Taeke M.	Delft, The Netherlands: IOS Press.	2002	9781614991809.
Building Knowledge in Architecture	Foqué, Richard	UPA	2010	9789054875451
“A Practical Guide to Better Research and Writing for Design Students”.	Anna Papadopoulou, Lapithis Petros.	UNic press. Nicosia. Cyprus.	2011	978-9963-634-93-4