

COURSE OUTLINE

1. GENERAL

SCHOOL	APPLIED SCIENCES		
DEPARTMENT	DIGITAL MEDIA AND COMMUNICATION		
LEVEL OF STUDY	UNDERGRADUATE		
COURSE UNIT CODE	DMC 747	SEMESTER OF STUDY	7 th
COURSE TITLE	FINAL YEAR SEMINAR		
COURSEWORK BREAKDOWN		TEACHING WEEKLY HOURS	ECTS Credits
Lectures		2	
Lab exercises		4	
Total		6	7
COURSE UNIT TYPE	Compulsory, Specialized Course Infrastructure		
PREREQUISITES :	-		
LANGUAGE OF INSTRUCTION/EXAMS:	GREEK		
COURSE DELIVERED TO ERASMUS STUDENTS	Yes (in English)		
MODULE WEB PAGE (URL)	http://elearn.teikoz.gr/course/view.php?id=94		

2. LEARNING OUTCOMES

Learning Outcomes
<p>The course offers to students the opportunity to team up over a course-project of one semester and develop research skills. This course is designed to synthesize the knowledge and skills developed by the students during their studies in the department. Students have the opportunity to apply what they have learned in the classroom and acquire valuable knowledge and research skills by undertaking a project into a cutting edge theme in the digital media and communication field and under the supervision of experts. Students follow a research plan, apply research methodologies, learn to review the literature, learn to effectively present their work and learn how to write a research report in a scientific manner. The course is preparing students for their next semester dissertation project.</p> <p>Upon successful completion of the course the students must be able to:</p> <ul style="list-style-type: none"> • Acquire a solid understanding about all aspects of the process and methodologies of developing and carrying out a research on a topic • Acquire a solid understanding of standards and expectations that students need to meet to be successful in their research approach. • Perform efficient literature review on a research subject • Understand how to efficiently use research papers and prior knowledge into undertaken research. • Identify and form research questions and subquestions for researching a topic • Situate research questions in the relevant literature • Plan and design a research work over a topic • Assess, evaluate and decide upon the appropriate research method or methods best suited for addressing the research questions of their research project. • Formulate theoretically-interesting arguments • Efficiently communicate with supervisors and other researchers innovative research ideas and projects • Efficiently communicate research results by presentations • Efficiently writing research reports and thesis

General Skills

- Teamwork
- Critical thinking
- Decision-making
- Working in interdisciplinary field
- Free, creative and inductive thought
- Search, Analysis and Synthesis of data and information with the use of necessary technologies.
- Design and Implementation of projects
- Production of new research ideas

3. COURSE CONTENTS

The course is designed to be taught in a seminar style workshop with extensive dialogue among the students and instructors. Class discussions are enhanced with additional student-advisor meetings. Since aggressive goals are to be met almost every week it is essential that students are expected to be prepared for all class meetings and be prepared to contribute to all class discussions and activities. During labs in person supervision will be more in focus in order to solve research problems and achieve research success.

- What is a research work
- What is a contribution
- Research Ethics
- Introduction to Literature Review
- Methods to review the literature
- Using Library Resources
- Online sources
- Format and Structure of a Research Paper
- References and Citations
- Formation of Research Teams by Students
- Presentation of Available Projects by the major advisors
- Expectations on Each Project
- Project Assignment to Research Teams
- Literature review to find related articles with their research topic.
- Journals and Journal Articles
- Conference Proceedings
- Submission by students of the literature review related to their research
- Feedback in person discussion on the submitted literature review
- Assigning one research paper for analysis in each team
- Critically reading the assigned paper and writing a short report over the assigned paper
- Submission of Short Reports on Assigned Papers
- In person discussion on the Short Reports and on the focused paper and summarization on the main ideas and contributions, type of methodologies that have been used, main actors in the literature, main findings and concluded results, given directions for future work.
- Examination of assumptions, methods, statistics, reasoning and conclusion on the assigned paper.
- Writing up the Literature Review Report of the project
- Submission of the Literature Review Report of the project
- Supervision and in person discussion on the assigned research and the outcomes of ideas from reviewing the literature, discussion on different research approaches over the assigned research topic.
- How to plan their research
- Available Research Methods
- Qualitative, Quantitative Research
- Comparative Research
- Textual and Content Analysis
- Interviewing
- Analyzing Data

- Submission of Research Plans specifying proposed research activities (goals, actions, methods, expected outcomes, and rationale for how this activity makes some contribution to the field)
- Presentation by the teams of their Research Plans to the Class
- Critically discussion on Research Plans
- Adjustment of research plans
- Reporting the Methodology of the research
- Supervision, guidance and discussion on research execution
- Supervision, guidance and discussion on research outcomes
- Reparation for the Presentation of the Research
- How to present the Research
- Using Computer Aided Presentations
- The Role of the Teams
- The Class as audience, how students as audience can be active and critically over the presented research.
- Critiquing portions of one another's research presentations
- Case studies of good presentation practices
- Final Student Presentations
- Active class participation by providing Critically Comments after each presentation
- Class discussion and Challenging the Arguments with the Research Teams
- Supervisor and Instructors' feedback on presented work
- Preparation for writing the Research Project Report
- Research Project Report Essentials
- Structure of the Research Project Report
- Case Studies of good writing practices.
- Writing Report Submission

4. TEACHING METHODS - ASSESSMENT

MODE OF DELIVERY	In-Class	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY	Support of the research work with access to international journals and conference proceedings databases. Support of the learning process through multimedia video-lessons. Support of the learning process through the e-class platform.	
TEACHING METHODS	<i>Method description</i>	<i>Semester Workload</i>
	Lectures	26
	Lab Exercises	52
	Research Project Work and Writing Report	97
	Total Work Load	175
ASSESSMENT METHODS	i. Lab Exercises (Assignments, Active Participation) 40% ii. Research Oral Presentation 30% iii. Writing Report 30%	

5. RESOURCES

- Recommended Book Resources:

- Zafeiropoulos K. (2005) How a scientific work is created, Ekdosi Kritiki (in Greek)
- Papanis E. (2010) Research Methodology and Internet, Andreas Sideris and Ioannis Sideris

Publications (in Greek).

- Bell Judith (2007) How to write a scientific report: A Guide of Research Methodology, Metehmio Publications (in Greek)
- Digital Media and Communication Department (2007) Dissertation Guide, <http://kastoria.teikoz.gr/dmc/html/contents/entypa/odigos/odigos-ptyx.pdf>
- Mpourliaskos B. (2010) How to write a Scientific Report: Dissertation and Literature Research, Dionikos Publications (in Greek)
- Theophilidis X. (2005) The writing of a research report, Typothito (in Greek)
- Tsiplitaris A., Mpampalis T. (2011), 10 Methodological Examples of Scientific Research: From Theory to Practice, Diadrasi Publications (in Greek)
- Mantzaris I. (2012) Scientific Research, Own-Publisher, (in Greek)
- Dimitropoulos E. (2009) Introduction to Methodology of Scientific Research: Towards a systemic dynamic model of scientific research methodology, Ellin Publications (in Greek).
- Bryant, M. T. (2004). *The portable dissertation advisor*. Thousand Oaks, CA: Corwin Press.
- Creswell, J. (2003). *Research design: Qualitative, quantitative, and mixed methods approaches*. (2nd edition.) Thousand Oaks, CA: Sage.
- S. Peyton Jones, "Research Skills," <http://research.microsoft.com/simonpj/Papers/giving-a-talk/giving-a-talk.htm>
- H. Schulzrinne, "Writing Technical Articles," <http://www.cs.columbia.edu/hgs/etc/writing-style.html>.
- G.M. Whitesides, "Whitesides' Group: Writing a Paper," <http://www.che.iitm.ac.in/misc/dd/writepaper.pdf>.
- T. Roscoe, "Writing Reviews for Systems Conferences," <http://people.inf.ethz.ch/troscoe/pubs/review-writing.pdf>.
- S. Keshav, "How to Read a Paper", <http://www.cs.princeton.edu/courses/archive/fall08/cos561/papers/paper-reading.pdf>
- M.J. Hanson, "Efficient Reading of Papers in Science and Technology", <http://www.cs.princeton.edu/courses/archive/fall08/cos561/papers/efficient-reading.pdf>

-Recommended Papers/Articles:

- D' Urso S. (2009) The Past, Present, and Future of Human Communication and Technology Research: An Introduction, *Journal of Computer-Mediated Communication*, Volume 14, Issue 3, pages 708–713.
- Andrew Bennett and Colin Elman (2007), "Case Study Methods in International Relations Subfield, *Comparative Political Studies*, Vol. 40, pp. 170-195
- John Gerring (2007), "Is There a (Viable) Crucial-Case Method?" *Comparative Political Studies*, Vol. 40, pp. 231-253.
- Krathwohl, D. R. (1998). *Methods of educational and social science research: An integrated approach*. Long Grove, IL: Waveland Press.
- Janet Buttolph Johnson and Richard A. Joslyn, *Political Science Research Methods*,

Washington D.C.: CQ Press, 2001.

- W. Phillips Shively, *The Craft of Political Research*, Prentice Hall, 2001.
- Evan S. Lieberman (2005), "Nested Analysis as a Mixed-Method Strategy for Comparative Research," *American Political Science Review*, Vol. 99, pp. 435-452.
- Tom Wengraf (2001), *Qualitative Research Interviewing*, London: Sage Publications, pp. 152-181.

Additionally students provide a number of journal articles and papers related to their research topic