COURSE INFORMATON					
Course Title	*Code*	*Semester*	*L+P Hour*	*Credits*	*ECTS*
Advanced Research Methods	ARCH 603	Spring	3+0	0	10

Prerequisites	-

Language of Instruction	English
Course Level	PhD program
Course Type	Compulsory
Course Coordinator	Assoc. Prof. Dr. Ece CEYLAN BABA
Instructors	Assoc. Prof. Dr. Ece CEYLAN BABA
Assistants	
Goals	The aim of this course is to provide to the students to develop alternative research strategies of architecture spread over a wide range of research methods into the more simple ones to complex techniques, aimed to identify in a systematic and ethic manner.
Content	The student gains a variety of information gathering, information analysis and evaluation methods and techniques to understand the basic properties of weak and strong sides and choose to use a critical perspective evaluate in architectural researches.

Learning Outcomes	**Program Learning Outcomes**	**Teaching Methods**	**Assessment Methods**
Internalizing Research Methods	1,7,11	4,5,7	A, C
Ability to form foundations of a research	1,2,3,4,5,6,7,8,12,13,14,16	4,5	A, C

Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz

COURSE CONTENT		
Week	**Topics**	**Study Materials**
1	Introduction to Research and Research Methodologies	Textbooks, Readings

2	Basics of Academic Writing	Textbooks, Readings
3	Architectural Research Standards, Concept of Research, Research Types and Techniques, Different Approaches to Research Problem	Textbooks, Readings
4	Resource Types and Literature Review	Textbooks, Readings
5	Method and Theory Development, Stating Hypothesis, Research Design, Content, Procedures	Textbooks, Readings
6	Architectural Design Based Research Methods	Textbooks, Readings
7	Mid-term exam	Textbooks, Readings
8	Architectural Research Strategies – 1 / Qualitative and Correlational RS Student Presentations - 1	Textbooks, Readings
9	Architectural Research Strategies – 2 / Experimental and Interpretive RS Student Presentations - 2	Textbooks, Readings
10	Architectural Research Strategies – 3 / Case Studies and Combined RS Student Presentations - 3	Textbooks, Readings
11	Architectural Research Strategies – 4 / Simulation and Modelling RS Student Presentations - 4	Textbooks, Readings
12	Architectural Research Strategies – 5 / Logical Argumentation RS Student Presentations – 5	Textbooks, Readings
13	Communicating the Research Results	Textbooks, Readings
14	Architectural Publishing and Ethics, Articles and Papers.	Textbooks, Readings

RECOMMENDED SOURCES	
Textbook	Laurence King Publishing. Groat & Wand, 2013. Architectural Research Methods, Wiley. Knight, A and Ruddock, L, 2008. Advanced Research Methods in the Built Environment, Blackwell Pub: Oxford. Julia Brannen, 2016. Mixing Methods: Qualitative and Quantitative Research, Routledge. Creswell, John W., 1998. "Qualitative Inquiry and Research Design: Choosing Among Five Traditions", Thousand Oaks, Sage Publications. Creswell, John W., 1994. "Research Design: Qualitative & Quantitative Approaches", Thousand Oaks, Calif.: Sage Publications. Zeisel, J., 1981, "Inquiry by Design: Tools for Environment-Behavior Research", Cambridge: Cambridge University Press. Kerlinger, F.N., 1973, 1977, 1979. "Foundations of Behavioral Research", Holt-Saunders International Edition. Floyd, J. Fowler, 2009. Survey Research Methods, Los Angeles Sage Publication.
Additional Resources	

MATERIAL SHARING	
Documents	Will be shared weekly.
Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	**NUMBER**	**PERCENTAGE**
Mid-terms	1	35
Quizzes		
Project	1	15
Seminar and presentation		
Assignment		
Final	1	50
Total		**100**
CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE	1	50
CONTRIBUTION OF IN-TERM STUDIES TO OVERALL GRADE	1	50
Total		**100**

COURSE CATEGORY	Expertise/Field Courses

COURSE'S CONTRIBUTION TO PROGRAM							
No	Program Learning Outcomes	Contribution					
		1	2	3	4	5	
1	Acquires knowledge of and comprehends socio-economic and spatial elements, and processes which necessitates urban design and also involves outputs of design projects.						
2	Has the competence for producing a comprehensive architectural project from the beginning of schematic design to detailed system development phase (structural and environmental systems, safety and fire protection, partition systems, building envelop, building service systems).						
3	Has the ability to employ the experience gained from architectural building to new fields and generate strategies.						

4	Has the knowledge of approaches, models and techniques which will improve the efficiency in managerial tasks and management of an architectural project and construction.					
5	Has the knowledge of principles of the modern load-bearing systems and application methods.					
6	Has the ability to transfer and apply architectural knowledge to design and application processes.					
7	Has the ability to employ theoretical and practical field-related knowledge with reference to their undergraduate competence.					
8	Has the ability to conduct research, evaluate, make critical analysis, employ appropriate techniques and reach unique results.					x
9	Has the competence of relating to project and construction processes, analyzing and evaluating within the framework of architectural structure.					
10	Has the competence of taking strategic decisions of an architectural project and generating unique architectural solutions.					
11	Has the competence of systematically presenting a work- carried out individually or as a group work- visually, orally and in written by employing required computer programs.					
12	Has the knowledge of relation of urban design with architecture and other fields of expertise.					X
13	Has the ability to prepare urban design project and/ or research by employing his/her knowledge and generating new methods and ideas.					
14	Has the ability to include socio-economic and spatial criteria into design process.					
15	Has the ability to conduct research, acquire knowledge, make analysis and synthesis, and use those for unique outputs.					x
16	Has the competence of managing a project in urban design field individually.					
17	Has the competence of conducting a unique academic/ scientific study, presenting it and discussing it on a dialectic basis.					x

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION

Activities	Quantity	Duration (Hour)	Total Workload (Hour)
Course Duration (Including the exam week: 14x Total course hours)	14	3	42
Hours for off-the-classroom study (Pre-study, practice)	14	13	82
Mid-terms	1	2	2
Quizzes			
Project	1	28	28
Seminar and presentation			
Assignment			
Final examination	1	2	2

Total Work Load			256
Total Work Load / 25			10.2
ECTS Credit of the Course			10