

<b>Course Information</b>					
<b>Course Title</b>	<b>Code</b>	<b>Semester</b>	<b>L+P Hour</b>	<b>Credits</b>	<b>ECTS</b>
Research Methods in Architecture	ARCH 504	Spring	3 + 0	3	8

<b>Prerequisites</b>	-
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<b>Language of Instruction</b>	English
<b>Course Level</b>	Master Program
<b>Course Type</b>	Compulsory
<b>Course Coordinator</b>	Assoc. Prof. Dr. Ece Ceylan BABA
<b>Instructors</b>	Assoc. Prof. Dr. Ece Ceylan BABA
<b>Assistants</b>	
<b>Goals</b>	This course aims to give elaborated perspectives of research methodologies. It projects to introduce students to all aspects of field research. Students are expected to learn how to do effective research and its phases on different subjects
<b>Content</b>	Concept of research; Variables in research, Media research and its dimensions; Textual analysis and interpretation; Semiotic; rhetorical analysis; Ideological and psychoanalytic criticism; Research processes Elements of research design; Data collection methods, Sampling; SPSS applications; Qualitative research methods, Quantitative research methods; Writing research reports

<b>Learning Outcomes</b>	<b>Program Learning Outcomes</b>	<b>Teaching Methods</b>	<b>Assessment Methods</b>
The ability to elaborate perspectives of research methodologies	1, 7, 11	1, 3, 4, 6	B, C
The ability to conduct effective research on various subjects	1, 7, 8, 11	3,4,6	C
Ability to present a paper	1, 7, 8, 11, 13, 15	1,2,3,4,5, 6	B, C

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

<b>COURSE CONTENT</b>		
<b>Week</b>	<b>Topics</b>	<b>Study Materials</b>
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

<b>RECOMMENDED SOURCES</b>	
<b>Textbook</b>	1) Babbie, E., <b>“Social Research”</b> , Thompson Awdsworth, US. <b>Required Readings:</b> 2) Sekaran, U., <b>“Research Methods for Business”</b> , Southern Illinois

	University, US.
<b>Additional Resources</b>	

<b>MATERIAL SHARING</b>	
<b>Documents</b>	It will be shared during the lesson.
<b>Documents</b>	
<b>Exams</b>	

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

<b>COURSE CATEGORY</b>	Expertise/Field Courses
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<b>COURSE'S CONTRIBUTION TO PROGRAM</b>						
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 a 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.					
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: 14 x Total course hours)	14	3	42
Hours for off-the-classroom study (Pre-study, practice)	14	9.5	133
Mid-terms	1	2	2

Quizzes			
Project	1	28	28
Seminar and presentation			
Assignment			
Final examination	1	2	2
<b>Total Work Load</b>			207
<b>Total Work Load / 25</b>			8.28
<b>ECTS Credit of the Course</b>			8