

**ABDULLAH GÜL UNIVERSITY
GRADUATE SCHOOL OF ARCHITECTURE
ARCHITECTURE PROGRAM
COURSE DESCRIPTION AND SYLLABUS**

Course Title	Code	Semester	T+L Hours	Credit	ECTS
RESEARCH METHODS IN ARCHITECTURE	ARCH 505	FALL	3 + 0	3	7.5

Prerequisite Courses NONE

Type	Elective
Language	English
Coordinator	Assoc. Prof. Nilüfer BATURAYOĞLU YÖNEY
Instructor	Assoc. Prof. Nilüfer BATURAYOĞLU YÖNEY
Adjunct	Prof. Dilek CİNDİOĞLU
Aim	<p>By the end of this course, students will:</p> <ul style="list-style-type: none"> complete a survey of contemporary theories and paradigms related to the formation of architectural understanding and practice in response to historical, technological, philosophical, cultural, social and political aspects; complete a critical review of discourses as conceptual and practical frameworks in which architectural thought and research are concentrated and practiced; acquire knowledge, understanding and skills related to research on built environment with emphasis on ethical, epistemological, methodological issues involved in research as design and practice; develop the ability to identify, analyze and evaluate the state of the art research in their specific area of study; investigate notable academic literature in terms of their formal structures, contextual frames and scholar/practical effectiveness as well as learn from peers (young scholars) who have recently completed their thesis/dissertation; formulate a research methodology for their thesis/dissertation.
Learning Outcomes	<p>A student, who passed the course satisfactorily will be able to:</p> <ul style="list-style-type: none"> understand the theoretical and trans-/interdisciplinary nature of architecture; develop an understanding of the nature of architectural research and of research theories, paradigms, discourses and themes in natural sciences, social sciences and humanities; identify and utilize resources of various types for their literature research; better communicate in their specialized area of research in oral, written and graphic forms; understand the frontiers of their specialized field of study and create their own research methodology in architecture for their thesis/dissertation and/or other research; analyze and critically evaluate current advanced research and scholarship in architecture as presented in literature.
Course Content	<p>This course aims to provide an introduction to integrated and trans-/interdisciplinary research methods in architecture. The students are expected to design the research methodology for their thesis/dissertation by the end of the course, depending on their topic/area of research. The course will be concluded with student seminars. There will be seminars by other researchers within the course based on the intended research areas of the students. Due to the limited number of students, a single course is planned both for graduate and doctoral research in the first few years.</p>

WEEKLY TOPICS AND PRELIMINARY STUDY

Week	Topic	Preliminary Study
1	<p>Introduction: design by research / research by design, is design = research? Theory and Literature Review in Architectural Research Other Issues in Architectural Research: Critical Thinking, What is Architecture / Who is the Architect?, Global challenges</p>	relevant materials
2	<p><u>Historical Research</u>: Archives, Period sources vs. interpretations, Case studies <u>Qualitative Research</u>: Ethnography, Phenomenology, Grounded theory, Approaches integrating other methods</p>	relevant materials discussion with students
3	<p><u>Correlational research</u>: Relationship studies, Causal comparative studies <u>Data collecting</u>: Surveys, Observations, Mapping, Sorting, Archives <u>Analyses</u>: Typological analyses, Multiple regressions, Factor analysis, Multidimensional scaling, Urban analyses / synthesis</p>	relevant materials discussion with students
4	<p><u>Experimental and quasi-experimental research</u>: Use of an independent variable, Measurement of outcome variable(s), Unit of assignment, Comparison and control group, Causality <u>Applications of experimental research in architecture</u>: Building physics and biology, Building materials and technologies, Structural systems,</p>	relevant materials discussion with students

	Architectural documentation, Archaeological documentation, Architectural preservation: materials characterization / repair materials	
5	<u>Simulation research</u> : Complex human factors, Architectural design process, Computer software, Real-time simulation, Immersive building simulation, Modeling construction sequences (building information modeling, BIM), Urban simulation models Representation, Model, Prediction/projection/pattern, Correlational research, Qualitative / historical research, Theory building, Computers	relevant materials work with students on their methodologies
6	<u>Logical argumentation</u> : Paradigmatic innovation, Priori argumentation, Trans-/Interdisciplinarity, Primary and secondary frameworks Defining principles, Defining relationships Rhetorical tactics: Naming, Association / Dissociation, Analogy, Story, Graphic images, Appeals to group identity, Dividing / integrating, Authority Logical argumentation tactics: Simple categories, Cross-categories, Spectrum / spectra, Adjacency matrices	relevant materials work with students on their methodologies
7	<u>Case studies and combined strategies</u> : Focus on cases in their context(s), Capacity to explain causal, Theory development, Multiple sources of evidence, Generalizability to theory, Distinguishing the case study, Multiple case studies, Integrating multiple research strategies/methods/designs	relevant materials work with students on their methodologies
8	Seminar(s) from young researchers in architecture: Mehtap Serim, Ali Taptık, Şeyda Şen, Demet Dinçer, Mehmet Emin Şalgamcıoğlu	work with students on their term papers
9	Seminar(s) from young researchers in architecture: Ozan Özener, Ali Dur, Ozan Avci, Zeren Önsel, Buket Metin, Demet Mutman	work with students on their term papers
10	Seminar(s) from researchers in architecture: İpek Akpınar, Funda Uz, Esra Akcan, Elvan Altan, Pelin Tan, Oya Şenyurt	work with students on their term papers
11	Seminar(s) from researchers in architecture: Burak Asiliskender, Hale Kozlu, Leyla Alpagut, Uğur Tanyeli, Şeyda Güngör Açıkgöz	work with students on their term papers
12	Seminar(s) from researchers in architecture: Zeynep Mennan, Sibel Bozdoğan, Medine Altıok, Bülent Tanju, İlhan Tekeli, Doğan Kuban	work with students on their term papers
13	Seminar(s) from students	work with students on their term papers
14	Seminar(s) from students	work with students on their term papers
15	Critique of term papers	
16	Final paper submission	

SOURCES

	Lecture notes, slides, books, films
	Literary Works Hugo, V., <i>Notre-Dame de Paris</i> , 1831
	Films: Documentaries Berlin: Symphony of a Great City, Walter Ruttmann, 1927 The Man with the Movie Camera, Dziga Vertov, 1929 Un Chien Andalou, Luis Bunuel, 1929 A Propos de Nice, Jean Vigo, 1930 Architects' Congress, Laszlo Moholy-Nagy, 1933 The New Architecture and the London Zoo, Laszlo Moholy-Nagy, 1936 The City, R. Steiner & W. Van Dyke, 1939 The Fountainhead, King Vidor, 1949 Brutality in Stone, Alexander Kluge & Peter Schamoni, 1961 L'Eclisse, Michelangelo Antonioni, 1962 Playtime, Jaques Tati, 1967 Fellini's Roma, Federico Fellini, 1972 The World of Buckminster Fuller, Robert Snyder, 1974 The Passenger, Michelangelo Antonioni, 1975 Antonio Gaudi, Hiroshi Teshigahara, 1985 Der Himmel über Berlin (Wings of Desire), Wim Wenders, 1987 The Belly of an Architect, Peter Greenaway, 1990 Europa, Lars von Trier, 1991 Faraway, So Close!, Wim Wenders, 1993 First Person Singular: I. M. Pei, Peter Rosen, 1997 Philip Johnson: Diary of an Eccentric Architect, B. Wolf, 1997 The Edge of the Possible (Sydney Opera House and Jorn Utzon), Daryl Dellora, 1998 Frank Lloyd Wright, K. Bruns & L. Novick, 1998 City of God, F. Meirelles & K. Lund, 2002 Russian Ark, Aleksandr Sokurov, 2002 My Architect: A Son's Journey, Nathaniel Kahn, 2003 The Socialist, the Architect and the Twisted Tower (Santiago Calatrava), Frederik Gertten, 2005
Lecture Notes	

Regular or Super: Views on Mies van der Rohe, P. Demers & J. Hillel, 2005
 Speer and Hitler: The Devil's Architect, Heinrich Breloer, 2005
 Sketches of Frank Gehry, Sydney Pollack, 2006
 The Architect, Matt Tauber, 2006
 Rem Koolhaas: A Kind of Architect, 2008
 Loos Ornamental, Heinz Emigholz, 2008
 24 City, Jia Zhankge, 2008
 First Earth: Uncompromising Ecological Architecture, G. B. Hajim, 2009
 Sense of Architecture, Heinz Emigholz, 2009
 How Much Does Your Building Weigh, Mr. Foster?, Deyan Sudjic, 2010
 Louis Sullivan: The Struggle for American Architecture, M. R. Smith, 2010
 Citizen Architect: Samuel Mockbee and the Spirit of the Rural Studio, S. W. Douglas, 2010
 The Pruitt-Igoe Myth, Chad Freidrichs, 2011
 Samsara, Ron Fricke, 2011
 Vertical Expectations – The Shard, Simona Piantieri, 2011
 Ecomenopolis: The City without Limits, Imre Azem, 2011
 Archiculture, David Krantz & Ian Harris, 2011
 Urbanized, Gary Hustwit, 2011
 Sagrada: The Mystery of Creation, Stefan Haupt, 2012
 Rem, Thomas Koolhaas, 2013
 Inside Piano, Ila Beka & Louise Lemoine, 2013
 Agoraphobia: Investigating Turkey's Urban Transformation, Imre Azem, 2013
 The Competition, Angel Borrego Cubero, 2013
 Theoretical Architectures, Josh Gibson, 2014
 The Grand Budapest Hotel, Wes Anderson, 2014
 Cathedrals of Culture, Karim Ainouz, Michael Glawogger, 2014
 Gran Horizonte: Around the Day in 80 Worlds, Urban Think-Tank ETH Zurich, 2014
 Lamekan: Metalaşan Kentin Çöküşü, Imre Azem, 2015
 The Infinite Happiness, Ila Beka & Louise Lemoine, 2015

Course Textbooks:

Groat, L., Wang, D., *Architectural Research Methods*, Wiley, 2013
 Snyder, J., *Architectural Research*, Van Nostrand, 1984

Additional Materials:

Akcan, E., *Architecture in Translation: Germany, Turkey, and the Modern House*, Duke UP, 2012
Anxious modernisms: experimentation in postwar architectural culture, S. Williams Goldhagen and R. Legault (eds), CCA, Montreal, 2000 (ISBN 0262072084).
 Bachelard, G., *The Poetics of Space*, 1957 *
Back from Utopia – The Challenge of the Modern Movement, H.-J. Henket and H. Heynen (eds), 010 Publishers, Rotterdam, (ISBN 9064504830), 2002
 Bal, M., *Louis Bourgeois' Spider: The Architecture of Art-Writing*, 2001
 Banham, R., *Theory and Design in the First Machine Age*, The MIT Press, USA, 1980
 Benjamin, W., *Illuminations – Essays and Reflections*, Schocken Books, New York, 2007
 Boudon, P., *Sur l'espace architectural: Essai d'épistémologie de l'architecture*, 1971
 Boudon, P., *Introduction a l'architecturologie*, 1992
 Boudon, P., *Lived-in Architecture, Le Corbusier's Pessac Revisited*, 1972
 Bozdoğan, S., (2002), *Modernism and Nation Building*, University of Washington Press, ABD.
 Cohen, J.-L., *The Future of Architecture Since 1889: A Worldwide History*, Phaidon, 2016
 Collins, P., *Changing Ideals in Modern Architecture, 1750-1950*, McGill-Queen's University Press, Montreal, Quebec, 1998 (ISBN 0773517758).
 Collins, P., *Concrete: The Vision of a New Architecture*, 2004
 Derrida, J., *Writing and Difference*, University of Chicago Press, 1980
 Derrida, J., *Dissemination*, University of Chicago Press, 1983
 Eakins, P., *Writing for Interior Design*, 2005
 Eisenman, P., *Eisenman Inside Out: Selected Writings, 1963-1988*, Yale UP, 2004
 Eisenman, P., *Written into the Void: Selected Writings, 1990-2004*, Yale UP, 2007
 Farrell, P., *Writing a Built Environment Dissertation: Practical Guides and Examples*, 2011
 Feyerabend, P. K., *Against Method: Outline of an Anarchistic Theory of Knowledge*, Verso, 1993
 Feyerabend, P. K., Maxwell, G., *Mind, Matter, and Method: Essays in Philosophy and Science in Honor of Herbert Feigl*, 1966
 Feyerabend, P. K., *Realism, Rationalism and Scientific Method, Philosophical Papers*, Vol. 1, Cambridge UP, 1981
 Feyerabend, P. K., *Problems of Empricism, Philosophical Papers*, Vol. 2, Cambridge UP, 1981
 Feyerabend, P. K., *Knowledge, Science and Relativism, Philosophical Papers*, Vol. 3, Cambridge UP, 1999
 Feyerabend, P. K., *Physics and Philosophy, Philosophical Papers*, Vol. 4, Cambridge UP, 2016
 Feyerabend, P. K., *Three Dialogues on Knowledge*, Wiley, 1991
Form and Function – A Source Book for the History of Architecture and Design, 1890-1939, T. & C. Benton, D. Sharp (eds), The Open University Press, London, 1975
 Forty, A., *Words and Buildings: A Vocabulary of Modern Architecture*, Thames & Hudson, 2004
 Frampton, K., *A Genealogy of Modern Architecture: Comparative Critical Analysis of Built Form*, 2015
 Frampton, K., *Studies in Tectonic Culture: The Poetics of Construction in Nineteenth and Twentieth Century Architecture*, 2001
 Frampton, K., *The Evolution of 20th Century Architecture – A Synoptic Account*, Springer, 2007

Other Sources

- Frisby, D., *Cityscapes of Modernity: Critical Explorations*, Polity, 2001 (ISBN 9780745626253).
- Frisby, D., *Fragments of Modernity: Theories of Modernity in the Work of Simmel, Kracauer, and Benjamin*, MIT Press, 1988 (ISBN 9780262560467)
- Gropius, W., *The New Architecture and the Bauhaus*, MIT Press, 1965/1984 (ISBN 9780262570060).
- Grosz, E., *Architecture from the Outside: Essays on Virtual and Real Space*, 2001
- Habermas, J., *The Philosophical Discourse of Modernity – Twelve Lectures*, F. G. Lawrence (trans.), MIT Press, 1990.
- Havik, K., *Urban Literacy: Reading and Writing Architecture*, 2015
- Hays, K. M., *Architecture Theory since 1968*, MIT Press, 2000 (ISBN 9780262581882)
- Heidegger, M., *The Question Concerning Technology and Other Essays*, W. Lovitt (trans.), Harper Perennial, 1977 (ISBN 9780061319693).
- Heynen, H., *Architecture and Modernity: A Critique*, MIT Press, 1999 (ISBN 9780262082648)
- Hitchcock, H. R. ve Johnson, P., *The International Style: Architecture Since 1922*, W. W. Norton, 1932.
- Holl, S., J. Pallasmaa, A. Perez-Gomez, *Questions of Perception: Phenomenology of Architecture*, William K Stout Publications, 2007
- Hollier, D., Wing, B., *Against Architecture: Writings of Georges Bataille*, 1990
- Jencks, C., *The Story of Post-Modernism: Five Decades of the Ironic, Iconic and Critical in Architecture*, Wiley, 2011
- Kaplan, A., *The Conduct of Inquiry*, Chandler, 1964
- Kohso, S., Speaks, M., *Architecture as Metaphor: Language, Number, Money*, 1995
- Kostoff, S. (ed), *The Architect: Chapters in the History of the Profession*, Oxford UP, 1977
- Lange, A. & J.M., *Writing about Architecture: Mastering the Language of Buildings and Cities*, 2012
- Lees-Maffei, G., *Writing Design: Words and Objects*, 2012
- Merleau-Ponty, M., *Phenomenology of Perception*, 2013
- Merleau-Ponty, M., *The Visible and the Invisible*, 1968
- Merleau-Ponty, M., *Philosophy and Painting*, 1993
- Merleau-Ponty, M., *The Primacy of Perception and Other Essays on Phenomenological Psychology, the Philosophy of Art, History and Politics (Studies in Phenomenology and Existential Philosophy)*, Northwestern University Press, 1964
- Modern Architectures in History* series, different authors for different countries, Turkey, Italy, France, India, Russia etc.
- Nicolai, B., *Moderne und Exil, Deutschsprachige Architekten in der Türkei 1925-1955*, Verlag für Bauwesen, Berlin, 1998
- Pallasmaa, J., *The Eyes of the Skin: Architecture and the Senses*, 2012 *
- Papadakis, A. C., *Deconstruction Omnibus*, Wiley, 1989
- Perec, G., *Especies d'Espaces (Species of Spaces)*, 1974
- Perez-Gomez, A., *Architecture and the Crisis of Modern Science*, 1983
- Perez-Gomez, A., *Timely Meditations, Vol. 1: Architectural Theories and Practices (Selected Essays on Architecture)*, CreateSpace Independent Publishing Platform, 2016
- Perez-Gomez, A., *Timely Meditations, Vol. 2: Architectural Philosophy and Hermeneutics (Selected Essays on Architecture)*, CreateSpace Independent Publishing Platform, 2016
- Perez-Gomez, A., *Attunement: Architectural Meaning after the Crisis of Modern Science*, MIT Press, 2016
- Proto, F., Mass, Identity, *Architecture: Architectural Writings of Jean Baudrillard*, 2006
- Scully, V.J., *Modern Architecture – The Architecture of Democracy*, G. Braziller, 1974
- Soja, E. W., *Postmetropolis: Critical Studies of Cities and Regions*, Wiley-Blackwell, 2000 (ISBN 9781577180012)
- Rasmussen, S. E., *Experiencing Architecture*, 1959
- Robinson, J., "Architectural Research: Incorporating Myth and Science", *Journal of Architectural Education* 44(1), 1990: 20-32
- Schmalz, B., *The Architect's Guide to Writing: For Design and Construction Professionals*, 2014
- Serim, M., *Bir Modernlik Zemini – Barok Aşırılık*, Akın Nalça, 2017 (ISBN 9786058294202)
- Stead, N., *Semi-Detached: Writing, Representation and Criticism in Architecture*, 2015
- Şenyurt, O., *Osmanlı Mimarisinin Temel İlkeleri*, Doğu Kitabevi, 2015 (ISBN 9786059093491)
- Şenyurt, O., *Osmanlı Mimarlık Örgütlenmesinde Değişim ve Dönüşüm*, Doğa Kitabevi, 2011 (ISBN 9786056204203)
- Şenyurt, O., *İstanbul Rum Cemaatinin Osmanlı Mimarisindeki Temsiliyeti*, Doğu Kitabevi, 2012 (ISBN 9786055296049)
- Tafari, M., *Architecture and Utopia: Design and Capitalist Development*, MIT Press, 1979
- Tanju, B. (ed.), *Tereddüd ve Tekerrür, Mimarlık ve Kent Üzerine Metinler: 1873-1960*, Akın Nalça Kitapları, İstanbul, 2007
- Tanyeli, U., *İstanbul 1900-2000: Konutu ve Modernleşmeyi Metropolden Okumak*, Akın Nalça Kitapları, İstanbul, 2004 (ISBN 9789759205911).
- Tanyeli, U., *Mimarlığın Aktörleri, Türkiye 1900-2000*, Garanti Galerisi, İstanbul, 2007 (ISBN 9789944551847)
- Tanyeli, U., *Yıkarak Yapmak, Metis*, 2017 (ISBN 9786053160854)
- Tanyeli, U., *Rüya, İnşa, İtiraz: Mimari Eleştiri Metinleri*, Boyut, 2013 (ISBN 9789752309159)
- Tanyeli, U., *İstanbul'da Mekan Mahremiyeti'nin İhlali ve Teşhiri: Gerilimli Bir Tarihçe ve 41 Fotoğraf*, Akın Nalça, 2013 (ISBN 9789759205973)
- Tanyeli, U., Taptık, A., *Metropol Yeşili: Teorik ve Fotografik Mikrogözlemler*, Akın Nalça, 2014, (ISBN 9789759205980)
- Tanyeli, U. Sınırışı Metinleri: Osmanlı Mekanının Peşinde 15.-19. Yüzyıllar, Akın Nalça, 2016 (ISBN 9789759205997)

Tekeli, İ., *Türkiye’de Yaşamda ve Yazında Konutun Öyküsü*, Tarih Vakfı Yurt Yayınları, 2012 (ISBN 9789753332828)

Tekeli, İ., İlkin, S., *Cumhuriyetin Harcı 1 – Köktenci Modernitenin Doğuşu*, İstanbul Bilgi Üniversitesi Yayınları, 2007 (ISBN 9789756857564)

Tekeli, İ., İlkin, S., *Cumhuriyetin Harcı 2 – Köktenci Modernitenin Ekonomik Politikasının Gelişimi*, İstanbul Bilgi Üniversitesi Yayınları, 2003 (ISBN 9789756857656)

Tekeli, İ., İlkin, S., *Cumhuriyetin Harcı 3 – Modernitenin Altyapısı Oluşurken*, İstanbul Bilgi Üniversitesi Yayınları, 2000 (ISBN 9789756857649)

Tekeli, İ., *Türkiye’nin Kent Planlama ve Kent Araştırmaları Tarihi Yazıları*, Tarih Vakfı Yurt Yayınları, 2011 (ISBN 9789753332538)

Tekeli, İ., *Kent, Kentli Hakları, Kentleşme ve Kentsel Dönüşüm*, Tarih Vakfı Yurt Yayınları, 2011 (ISBN 9789753332675)

Tekeli, İ., *Modernizm, Modernite ve Türkiye’nin Kent Planlama Tarihi*, Tarih Vakfı Yurt Yayınları, 2009 (ISBN 9789753332347)

Tekeli, İ., *İstanbul’un Planlanmasının ve Gelişmesinin Öyküsü*, Tarih Vakfı Yurt Yayınları, 2013 (ISBN 9789753332941)

Tekeli, İ., *Konut Sorununu Konut Sunum Biçimleriyle Düşünmek*, Tarih Vakfı Yurt Yayınları, 2010 (ISBN 9789753332538)

Tekeli, İ., *Mekansal ve Toplumsal Olanın Bilgibilimi Yazıları*, 2010 (ISBN 9789753332415)

Tournikiotis, P., *The Historiography of Modern Architecture*, MIT Press, 2001

Tschumi, B., *Architecture and Disjunction*, MIT Press, 1996

Tschumi, B., *Architecture Concepts: Red is not a Color*, Rizzoli, 2012

Venturi, R., V. Scully, *Complexity and Contradiction in Architecture*, The Museum of Modern Art, New York, 1977

Venturi, R., S. Izenour, *Learning from Las Vegas: The Forgotten Symbolism of Architectural Form*, MIT Press, 1977

Unwin, S., *Analysing Architecture*, 1997 *

Usûl-i Mî’mârî-i Osmânî, 1873

Vidler, A., *Histories of the Immediate Present: Inventing Architectural Modernism*, 2008

Wacquant, L., Amoros, M., Negri, A., Merrifield, A., Torlak, S., Bayat, A., Harvey, D., *Mekan Meselesi*, Tekin, 2014 (ISBN 9789944610858)

“What is Architectural Research?”, RIBA Memorandum, RIBA Research Committee (J. Till), 2004

Wolfe, T., *From Bauhaus to Our House*, Picador, 2009 (ISBN 9780312429140).

Yin, R. K., *Case Study Research*, Sage, 1984

COURSE MATERIALS SHARING	
Documents	See Bibliography
Homeworks	1 term paper on thesis/dissertation methodology.
Exams	None

EVALUATION SYSTEM		
SEMESTER STUDY	NUMBER	CONTRIBUTION
Attendance & participation in class discussions	-	20
Term papers	1	80
TOTAL		100

Course Category	
Architecture	65%
Social Sciences / Humanities / Natural Sciences	35%

RELATIONSHIPS BETWEEN LEARNING OUTCOMES AND PROGRAM QUALIFICATIONS					
No Program Qualifications	Contribution Level				
	1	2	3	4	5
1 Skills of using and Architecture and Urban planning knowledge					X
2 Skills of critical thinking on housing problems and analyzing and synthesis of that					X
3 Skills of using research methods and presentation of research					X
4 Skills of using theoretical knowledge on architectural projects					X
5 Skills of following literature, making and/or listening technical presentation, writing academic level article					X
6 Skills of finding original ways by means of innovative thinking and questioning					X

*Increasing from 1 to 5.

ECTS / WORK LOAD TABLE			
Activities	Number	Duration (Hours)	Total Work Load
Course Length (includes exam weeks: 16x total course hours)	16	3	48
Out-of-class Study Time (reading, films)	16	5	90
Internet search, library work, literature search	16	2	32
Seminar Presentations	2	12	24
Term paper submissions	2	16	32
Total Work Load	-	-	226
Total Work Load / 30			225/30
Course ECTS Credit			7.5