

**T.R.**

**ESKISEHIR OSMANGAZI UNIVERSITY**

**GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES**

**COURSE INFORMATION FORM**



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| **DEPARTMENT** |  **ARCHITECTURE (PhD)** | **SEMESTER** |   |

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| **COURSE** |
| **CODE** |        | **TITLE** |  Research Methodology in Architecture  |

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| **LEVEL** | **HOUR/WEEK** | **Credit** | **ECTS** | **TYPE** | **LANGUAGE** |
| **Theory** | **Practice** | **Laboratory** |
|  **PhD** | 3  | 0  |    | 3  | 7,5 | COMPULSORY( + ) | ELECTIVE(   ) | TURKISH |
| **CREDIT DISTRIBUTION** |
| **Basic Science** | **Basic Engineering** | **Knowledge in the discipline****[if it contains considerable design content, mark with (√)]** |
|   |   |      |
| **ASSESSMENT CRITERIA** |
| **SEMESTER ACTIVITIES** | **Evaluation Type** | **Number** | **Contribution** **( % )** |
| Midterm |   |    |
| Quiz |   |    |
| Homework | 2 | 60 |
| Project |   |    |
| Report |   |    |
| Seminar |   |    |
| Other (………) |   |    |
| **Final Examination** | 40 |
| **PREREQUISITE(S)** |        |
| **SHORT COURSE CONTENT** |  This course for PHD in Architecture aims to introduce the definition of knowledge, acquisition and production of knowledge |
| **COURSE OBJECTIVES** |  An introduction to the field of epistemology. Topics include the analysis and introduction of knowledge from the simpliest to advanced methodologies.  |
| **COURSE CONTRIBUTION TO THE PROFESSIONAL EDUCATION** |  This course will introduce epistemological concepts and discussions thus students may employ critical and scientific approaches to professional life. |
| **LEARNING OUTCOMES OF THE COURSE** |  At the end of this course, students in graduate level will learn how to produce scientific knowledge.Students will have the knowledge of how to access basic database, information through the use of libraries.Students achieve the skill to analysis, synthesis and discussion of a scientific topic.Studients will acquire writing skills for academic papers. |
| **TEXTBOOK** |        |
| **OTHER REFERENCES** |  1. Rosenberg, Alex, Bilim Felsefesi: Çağdaş Bir Giriş, dipnot Yay., Ankara, 20142. Kuhn T. Bilimsel Devrimlerin Yapısı, Kırmızı Yay. İstanbul, 2010 3. Popper K., Bilimsel Araştırmanın Mantığı, Yapı Kredi Yayınları, 20034. Groat L. and D. Wang, Architectural Research Methods, New York: Wiley, 2002 (ISBN: 0-471-33365-4)5. McQueen, Ron and Knussen, Christina, Research Methods for Social Science : An Introduction, Pearson Education , 20026. Marshall, C. & Rossman, G. B. Designing qualitative research Newbury park, Calif.: Sage Publications, 19897. Fisek, M. H. Elementary methods of research in the social behavioral sciences ,Istanbul: Bogazici University, 19988. Grbich, Carol, New Approaches in Social Research, SAGE Publicatins, 20049. Creswell J., Research Design, Thousand Oaks: Sage Publications, 200310. Heynen, Hilde, Mimarlik ve Modernite, Versus Yay. Istanbul 201111. Holliday, Adrian, Doing and Writing Qualitative Research, Sage Pub. London 200212. Robinson J., “Architectural research: Incorporating myth and science,” JAE, 44, 1, pp. 20-32, 1990.13. Templer J. ,“Architectural Research,” JAE, 44, 1, p. 3, 1990.14. Bamberger M., Integrating quantitative and qualitative research in development projects (pp. 8-16). Washington, D.C.: World Bank. 2000.15. Munslow, A. , Objectivity and the writing of history. History of European Ideas, 28(1 -2),43-50, 2002.16. Graff, H. J. , Teaching [and] historical understanding: disciplining historicalimagination with historical context. Interchange, 30(2), 143-169, 1999.17. Bouma, G. D., Atkinson, G. B. J., & Dixon, B. R. , Chapter 12: Writing up your research. In A Handbook of social science research (2nd ed.) (pp. 221-234). Oxford;University Press. 1995.18. Cebeci, S., Bilimsel Araştırma ve Yazma Teknikleri, Alfa Yay., Istanbul. Ocak 2002 19. Creswell, John, Nitel Araştırma Yöntemleri: Beş Yaklaşıma Gore Nitel Araştırma ve Araştırma Deseni; Ed. Bütün; M.; Demir, S., Siyasal Kitapevi,2015 |

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| **COURSE SCHEDULE (Weekly)** |
| **WEEK** | **TOPICS** |
| 1 |  Inroduction  |
| 2 |  Aims, Content of Research Methodology in Architecture  |
| 3 |  Research Methodolgy Approaches in Architecture |
| 4 |  Interpretive-Historical Research in Architecture |
| 5 |  Correlation Research in Architecture |
| 6 |  Experimental and Quasi-Experimental Research in Architecture  |
| 7 |  Experimental and Quasi-Experimental Research in Architecture  |
| 8 |  Logical Argumentation In Architecture  |
| 9 |  HOMEWORK PRESENTATIONS  |
| 10 |  Case Studies and Combined Strategies in Architecture  |
| 11 |  Latest Researh Methodology in Architecture: Design-based Research |
| 12 |  Latest Researh Methodology in Architecture: Research-based Research |
| 13 |  Latest Researh Methodology in Architecture: Action-based Research  |
| 14 |  Latest Researh Methodology in Architecture: Investigation of Research Studies  |
| 15,16 | Final Examination |

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| **CONTRIBUTION OF THE COURSE LEARNING OUTCOMES TO THE ARCHITECTURE PhD PROGRAM LEARNING OUTCOMES** | **CONTRIBUTION LEVEL** |
| **NO** | **LEARNING OUTCOMES (PhD)**  | **3**High | **2**Mid | **1**Low |
| **LO 1** | Ability to develop and deepen the current and advanced knowledge in the field of original ideas and / or research at the level of expertise, based on master degree qualifications | **[x]**  | **[ ]**  | **[ ]**  |
| **LO 2** | Ability to understand the interdisciplinary interaction related to the field; reach original results utilising advanced knowledge in analysis, synthesis and evaluation of new and complex ideas | **[x]**  | **[ ]**  | **[ ]**  |
| **LO 3** | Ability to evaluate and use new information in a systematic approach | **[x]**  | **[ ]**  | **[ ]**  |
| **LO 4** | Knowledge of developing original ideas, methods, design and / or applications and apply common idea ,method, design and / or application to a different field; and of doing research , comprehend , design and adapt unique ideas  | **[x]**  | **[ ]**  | **[ ]**  |
| **LO 5** | Ability to take the lead in the area that require the analysis of original and interdisciplinary problems | **[ ]**  | **[ ]**  | **[x]**  |
| **LO 6** | Ability to be an expert and actualize theoretical and practical studies at an academic level , comprehend research methodologies and approaches related to design research areas.  | **[x]**  | **[ ]**  | **[ ]**  |
| **LO 7** | Knowledge of scientific norms and standards in research and publication; and of information on ethical knowledge and responsibilities. | **[x]**  | **[ ]**  | **[ ]**  |
| **LO 8** | Knowledge of meta-cognitive processes like creative and critical thinking, problem solving and decision-making, and of developing novel ideas and methods on related research areas.  | **[x]**  | **[ ]**  | **[ ]**  |
| **LO 9** | Ability to defend original ideas and to communicate effectively with experts in international platforms. | **[x]**  | **[ ]**  | **[ ]**  |
| **LO 10** | Ability to control the stages of collecting, interpreting, applying and announcing data related to architectural design by considering social, scientific, cultural and ethical values and teach these values; to develop strategy, policy and implementation strategies and to evaluate the obtained results within the framework of quality processes .  | **[ ]**  | **[x]**  | **[ ]**  |

**Prepared by:** Assist Prof. Dr. Gökçe ÖNAL **Date:** 15.05.2019

**Signature**: