# AYDIN ADNAN MENDERES UNIVERSITY
# COURSE INFORMATION FORM

| Course Title | | Research Methods and Techniques in Education | | | | | |
|---|---|---|---|---|---|---|---|
| Course Code | | EYT503 | | Couse Level | Second Cycle (Master's Degree) | | |
| ECTS Credit | 5 | Workload | 129 *(Hours)* | Theory | 3 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | | To gain skills to read, plan and conduct scientific studies,. | | | | | |
| Course Content | | Concepts of science and research, relationship of science and research, ways to obtain information. Education research. Classification of research. Research models. Research process and techniques; problem and purpose, method, research model, population and sampling, collection of data, processing, analysis and interpretation of data, findings and comments, summary, conclusion and recommendations. The preparation and conduct of research report writing, scientific attitudes and behaviors, planning and preparation of research proposals. | | | | | |
| Work Placement | | N/A | | | | | |
| Planned Learning Activities and Teaching Methods | | | Explanation (Presentation), Discussion, Individual Study | | | | |
| Name of Lecturer(s) | | | | | | | |

## Assessment Methods and Criteria

| Method | Quantity | Percentage (%) |
|---|---|---|
| Midterm Examination | 1 | 40 |
| Final Examination | 1 | 60 |

## Recommended or Required Reading

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|---|---|
| 1 | 1. Barzung, J. ve Graff, H.F. (1996). Modern Araştırmacı (Çev:F. Dilber). TÜBİTAK Popüler bilim kitapları 33. |
| 2 | Yıldırım, A. ve Şimşek, H. (2011). Sosyal Bilimlerde Nitel Araştırma Yöntemleri. Ankara: Seçkin Yayıncılık |
| 3 | R. J. ve Towne, L. ( 2002). Scientific Research in Education. Washington:National Academy Press |
| 4 | Büyüköztürk, Ş., Kılıç Çakmak, E., Akgün, Ö.E., Karadeniz, Ş. & Demirel, F. (2011). Bilimsel araştırma yöntemleri. Ankara: PegemA Yayınları |
| 5 | Fraenkel, J.R. & Wallen, N.E. (2005). How to design and evaluate research in education. Boston: McGraw-Hill |
| 6 | Erdoğan, İ. (2012). Pozitivist metodoloji. Ankara: Erk Yayınları. |
| 7 | Karasar, N. (2010). Bilimsel Araştırma Yöntemleri. Ankara: Nobel Akademi Yayıncılık. |

| Week | Weekly Detailed Course Contents | |
|---|---|---|
| 1 | Theoretical | Introduction to scientific research methods and techniques, basic concepts, principles and approaches |
| | Preparation Work | Erdoğan, İ. (2012). Pozitivist metodoloji. Ankara: Erk Yayınları. |
| 2 | Theoretical | The research problem and sub-problems, problem sources, and criteria to the selection problem |
| | Preparation Work | Erdoğan, İ. (2012). Pozitivist metodoloji. Ankara: Erk Yayınları. |
| 3 | Theoretical | Research variables, variable definition, types |
| | Preparation Work | Erdoğan, İ. (2012). Pozitivist metodoloji. Ankara: Erk Yayınları. |
| 4 | Theoretical | Research hypotheses, definition and characteristics |
| | Preparation Work | Karasar, N. (2010). Bilimsel Araştırma Yöntemleri. Ankara: Nobel Akademi Yayıncılık. |
| 5 | Theoretical | Assumptions, limitations and definitions |
| | Preparation Work | Karasar, N. (2010). Bilimsel Araştırma Yöntemleri. Ankara: Nobel Akademi Yayıncılık. |
| 6 | Theoretical | Publications related to screening and report writing |
| | Preparation Work | Literature Review |
| 7 | Theoretical | Research model, research model types |
| | Preparation Work | Karasar, N. (2010). Bilimsel Araştırma Yöntemleri. Ankara: Nobel Akademi Yayıncılık. |
| 8 | Intermediate Exam | Midterm Exam |
| 9 | Theoretical | Population and sample / sampling methods |
| | Preparation Work | Karasar, N. (2010). Bilimsel Araştırma Yöntemleri. Ankara: Nobel Akademi Yayıncılık. Erdoğan, İ. (2012). Pozitivist metodoloji. Ankara: Erk Yayınları. |
| 10 | Theoretical | Collection of data |
| | Preparation Work | Karasar, N. (2010). Bilimsel Araştırma Yöntemleri. Ankara: Nobel Akademi Yayıncılık. Erdoğan, İ. (2012). Pozitivist metodoloji. Ankara: Erk Yayınları. |

| 11 | Theoretical | The methods of validity and reliability |
|---|---|---|
| | Preparation Work | Karasar, N. (2010). Bilimsel Araştırma Yöntemleri. Ankara: Nobel Akademi Yayıncılık. |
| 12 | Theoretical | Data processing, analysis and interpretation |
| | Preparation Work | Karasar, N. (2010). Bilimsel Araştırma Yöntemleri. Ankara: Nobel Akademi Yayıncılık. |
| 13 | Theoretical | Research findings and comments |
| | Preparation Work | Karasar, N. (2010). Bilimsel Araştırma Yöntemleri. Ankara: Nobel Akademi Yayıncılık. Erdoğan, İ. (2012). Pozitivist metodoloji. Ankara: Erk Yayınları. |
| 14 | Theoretical | Preparing a research proposal |
| | Preparation Work | Literature Review, Writing Report |
| 15 | Theoretical | Research and publishing ethics |
| | Preparation Work | Literature Review |
| 16 | Final Exam | Final Exam |

**Workload Calculation**

| Activity | Quantity | Preparation | Duration | Total Workload |
|---|---|---|---|---|
| Lecture - Theory | 14 | 5 | 3 | 112 |
| Midterm Examination | 1 | 5 | 3 | 8 |
| Final Examination | 1 | 5 | 4 | 9 |
| | | | Total Workload (Hours) | 129 |
| | | [Total Workload (Hours) / 25*] = **ECTS** | | 5 |

*25 hour workload is accepted as 1 ECTS*

**Learning Outcomes**

| 1 | Comprehends the qualities of scientific approach. |
|---|---|
| 2 | Gains knowledge of the stages of scientific methods. |
| 3 | Comprehends the basic concepts of the quantitative research. |
| 4 | Becomes able to write a research proposal. |
| 5 | Becomes able to develop scientific attitudes and behaviors in the research. |

**Programme Outcomes** *(Educational Administration Supervision Planning And Economics Master)*

| 1 | To be able to deepen the collected knowledge related to education toward basic theories and applications of EASPE and evaluate the relationships between the theories and applications related to educational administration and supervision. |
|---|---|
| 2 | To be able to comprehend the relationships between EASPE and psychology, sociology, philosophy, management, economy, political sciences and other related disciplines and to carry out interdisciplinary studies by using gained knowledge and abilities related to EASPE. |
| 3 | To be able to apply the knowledge obtained to different level educational organizations in order to be developed and be managed effectively. |
| 4 | To be able to identify the problems of educational administration and supervision by using the knowledge obtained in EASPE and to develop new point of views by using the knowledge obtained from related disciplines |
| 5 | To be able to propose solutions to the problems of educational system by using qualitative and quantitative research methods and by mounting the problems of EASPE in the problem-solving framework. |
| 6 | To be able to develop necessary skills of using statistical softwares in order to carry out a scientific research and to use knowledge and communication technologies necessary for sharing knowledge and data. |
| 7 | To be able to develop solution models toward the problems of EASPE by using related theories and approaches and to apply these solution models to the total system. |
| 8 | To be able to gain the knowledge necessary for carrying out independent studies in EASPE and to apply teamwork skills in order to reach effective results in interdisciplinary studies |
| 9 | To be able to evaluate assumptions, opinions and theories related to the field of EASPE by sceptical, logical, analitical, independent and cretical point of view. |
| 10 | To be able to internalize the principles of professional development and lifelong learning which are considered necessary for the field of EASPE. |
| 11 | To be able to transfer the recent developments in the field of EASPE and his/her quality scientific studies to the people, institutions and organizations in and out of the field by written, non-written and visual systematically |
| 12 | To be able to follow the recent international studies in the field ,to participate in international social and scientific teamworks and to have language skills and competence for sharing and demonstrating his / her studies. |
| 13 | To be able to interpret the strategies, politics and plans developed for educational system in the way of theories and principles of educational administration and supervision and to evaluate the obtained results in the framework of national and international indicators. |
| 14 | To be able to carry out research processes within the framework of EASPE by applying the social, scientific and ethical values. |

| 15 | To be able to develop new point of views by analyzing the reflections of international educational policies on national educational policies. |
|---|---|
| 16 | To To be able to develop leadership skills in order to move the human resources toward organizational goals and the visions of educational instutitions. |
| 17 | To be able to evaluate  the social,cultural and scientific educational developments in accordance with national policies and sources. |
| 18 | To be able to apply the strategies and processes  designed in relation with change management at schools by analyzing the nature of internal and external forces leading towards change at schools within the framework of school and environment relations. |

**Contribution of Learning Outcomes to Programme Outcomes** *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

|  | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|
| P5 | 5 | 5 | 5 | 5 | 5 |
| P6 | 5 | 5 | 5 | 5 | 5 |
| P8 | 5 | 5 | 5 | 5 | 5 |
| P12 | 4 | 5 | 4 | 4 | 4 |
| P14 | 5 | 5 | 5 | 5 | 5 |