# AYDIN ADNAN MENDERES UNIVERSITY
# COURSE INFORMATION FORM

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|---|---|---|---|---|---|---|---|
| Course Title | | Scientific Research and Publication Ethics | | | | | |
| Course Code | | MCE502 | | Couse Level | Second Cycle (Master's Degree) | | |
| ECTS Credit | 7 | Workload | 175 *(Hours)* | Theory | 3 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | | To gain information, awareness and susceptibility about research and publication ethics, in this context proper work for research and publication ethics | | | | | |
| Course Content | | Ethics, scientific and experimental research, project design, legal regulations, plagiarism, referencing. | | | | | |
| Work Placement | | N/A | | | | | |
| Planned Learning Activities and Teaching Methods | | | Explanation (Presentation), Demonstration, Discussion, Case Study, Project Based Study, Individual Study | | | | |
| Name of Lecturer(s) | | Lec. Cenk OZAN | | | | | |

## Assessment Methods and Criteria

| Method | Quantity | Percentage (%) |
|---|---|---|
| Assignment | 1 | 40 |
| Project | 1 | 60 |

## Recommended or Required Reading

| | |
|---|---|
| 1 | Day, R. A. 2001. Bilimsel Bir Makale Nasıl Yazılır ve Yayımlanır? 7. Basım, Çev: Gülay Aşkar Altay, TÜBİTAK |
| 2 | Lecture notes |

| Week | Weekly Detailed Course Contents | |
|---|---|---|
| 1 | Theoretical | Introduction to ethics description and scientific research methods |
| 2 | Theoretical | Theoretical and experimental research methods |
| 3 | Theoretical | Gathering and evaluating of data/information from reliable sources in scientific research |
| 4 | Theoretical | Ethics and rules in laboratory, surveying, project, site and software studies |
| 5 | Theoretical | Privacy and ownership of the data used in scientific studies |
| 6 | Theoretical | Scientific project design, project support mechanisms, project management |
| 7 | Theoretical | Reporting, dissertation and paper writing techniques |
| 8 | Theoretical | Publication ethics, referencing and citation |
| 9 | Theoretical | Plagiarism research |
| 10 | Theoretical | Partisan publication (clash of interests), editorial ethics |
| 11 | Theoretical | Ethical issues arising from research-industry relations |
| 12 | Theoretical | Regulations relating to ethics of YÖK, TÜBİTAK and universities |
| 13 | Theoretical | Evaluation and discussion about legal legislation related to research and publication ethics in our country |
| 14 | Theoretical | Final exam |

## Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---|---|---|---|---|
| Lecture - Theory | 14 | 7 | 3 | 140 |
| Term Project | 2 | 8 | 1 | 18 |
| Final Examination | 1 | 16 | 1 | 17 |
| | | | Total Workload (Hours) | 175 |
| | | | [Total Workload (Hours) / 25*] = **ECTS** | 7 |

*25 hour workload is accepted as 1 ECTS*

## Learning Outcomes

| | |
|---|---|
| 1 | To understand ethics in scientific research |
| 2 | To gain ability to determine improper action of scientific ethics |
| 3 | To get knowledge about scientific ethics rules |

| 4 | To gain ability to understand scientific research and publication ethics rules |
|---|---|
| 5 | To gain ability to conduct a scientific study in accordance with the scientific research methods |

**Programme Outcomes** *(Civil Engineering (English) Master)*

| 1 | To be able to develop expertise knowledge in a civil engineering area founded on their graduate competence. |
|---|---|
| 2 | To be able to use the theoretical and practical expertise knowledge gained in their specialty area. |
| 3 | To be able to use the information, problem solving and / or practical skills from the field, in interdisciplinary studies. |
| 4 | To be able to create new knowledge by integrating their knowledge area with the knowledge coming from different disciplines; and solve problems that need expertise by using scientific research methods |
| 5 | To be able to solve the problems related to his/her area by using appropriate research methods |
| 6 | To be able to devise a problem in their specialty area, develop a solution methodology, solve the problem, and interpret the results and take action if necessary |
| 7 | To be able to criticize the knowledge in their specialty area, guide the learning process, and independently direct high level studies |
| 8 | To be able to systematically communicate the recent developments in their specialty area and their own studies to groups both inside and outside their specialty area, orally, in writing and visually |
| 9 | To be able to use computer software at a level required by their specialty area with drawing upon information and communication technology at a high level |
| 10 | To be able to introduce scientific, technological, social and cultural advancements in the field of civil engineering and to contribute to the process of being an information of the society and to sustain it. |
| 11 | To be conscious of professional and ethical responsibility and contribute to the establishment of this consciousness. |
| 12 | To be able to protect social, scientific, and ethical values during collection, interpretation, and dissemination stages of the data associated with their specialty area; instruct and supervise these values |
| 13 | To be able to use at least one foreign language in a level to follow current developments related to the field. |

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

|  | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|
| P1 | 5 | 4 | 5 | 4 | 5 |
| P2 | 4 | 5 | 4 | 5 | 4 |
| P3 | 5 | 4 | 5 | 4 | 5 |
| P4 | 4 | 5 | 4 | 5 | 4 |
| P5 | 5 | 4 | 5 | 4 | 5 |
| P6 | 4 | 5 | 4 | 5 | 4 |
| P7 | 5 | 4 | 5 | 4 | 5 |
| P8 | 4 | 5 | 4 | 5 | 4 |
| P9 | 5 | 4 | 5 | 4 | 5 |
| P10 | 4 | 5 | 4 | 5 | 4 |
| P11 | 5 | 4 | 5 | 4 | 5 |
| P12 | 4 | 5 | 4 | 5 | 4 |
| P13 | 5 | 4 | 5 | 4 | 5 |