

COURSE IDENTIFICATION FORM

Course Code and Name: IM5064 PLANNING OF RESEARCH AND EVALUATION OF DATA

Department of : CIVIL ENGINEERING / MASTER PROGRAMME

Semester	Theoretic Hour	Practice Hour	Total Hour	Credits	ECTS	Education Language	Type: Compulsory Elective
Autumn/Spring	3	0	3	3	5	Turkish	Optional

Prerequisite (s)

Instructor

Asst. Prof. Dr.Hilal ARSLANOĞLU IŞIK

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Course Assistant

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Groups / Classes

Postgraduate (Master's Degree)

Course Aim

To provide students with the concepts related to science, the scientific research process and the scientific activities that need to be carried out in this process, and the methods of turning scientific studies into reports, projects, theses and articles.

Course Goals

Ensuring that the research process is planned from beginning to end

Course Learning Outcomes and Proficiencies

1. Be able to describe the concepts related to science, the scientific research process and the scientific activities that should be carried out in this process.
 - 1.1. Knows the path to follow in scientific research.
 - 1.2. Expresses ideas and findings on the research topic effectively, both verbally and in writing.
 - 1.3. Carefully reviews the literature in line with the research project and establishes a connection between his/her own results and previous literature.
 - 1.4. Determines appropriate methods for working by developing existing knowledge.
2. Be able to apply research methods and article writing techniques in writing scientific publications.
 - 2.1. Writes a seminar on a topic he/she determines
 - 2.2 Knows the techniques of writing scientific articles.
3. Will be able to prepare a report on his/her subject , either as a team or individually.
 - 3.1. Performs case study analysis.

	3.2. Prepares a report in accordance with ethical rules and writing guidelines.
Course Basic and Auxiliary Contexts	<ol style="list-style-type: none"> 1. Roberta Day , Translation : Gülay AşkarAltay,1996. How to Write and Publish a Scientific Article? Tubitak 2. Sumer, N., Demirutku , K., and Ozkan, T., 2007, Research Techniques. Morpa Culture Publications 3. Karasar , N., 2005, Scientific Research Method, Nobel Pub. 4. Cebeci, S., 1997, Scientific Research and Writing Techniques, Alfa Publications.
Methods of Give a Lecture	The course will be conducted through mutual explanation, question-answer, individual and group work, homework, and evaluation.

Assessment Criteria		If Available, to Sign (x)	General Average Percentage (%) Rate
	Midterm Exam	X	50
	Homework		
	Presentation		
	Quiz		
	Oral Exam		
	Practical Exam (Lab , Project etc.)		
	Final Exam	X	50
Semester Course Plan			
Week	Subjects		
1	Definition of Science, Classification, Basic Characteristics of Research, Basic and Applied Research,		
2	File types, what is a scientific article? What is a scientific journal? Scientific article search engines, searching from scientific article search engines with examples, Examining sites such as Google advanced search, Google academic search, searching with different keywords , tips , YÖK National Thesis Center, TÜİK, DPT.		
3	Data collection, data compilation, processing, data indexing,		
4	Creating effective graphs and drawing shapes for data with Excel		
5	Statistical tests, regression and correlation analyses.		

6	The formal structure of the research, examination of Tunceli University thesis writing guide
7	MIDTERM EXAM
8	Students determine the seminar topic and research articles on the subject.
9	reporting of data related to the seminar and examination
10	Presentation of successful seminars, application of effective presentation techniques 1.
11	Presentation of successful seminars, Application of Effective Presentation Techniques 2.
12	Techniques for writing scientific articles
13	Techniques for writing scientific articles
14	FINAL EXAM