

ETH 500– Scientific Research Methods and Ethics

Course Code:	ETH 500
UTAA Credit (Theoretical-Laboratory hours/week):	2(2-0)
ECTS Credit:	6.0
Department:	Electrical and Computer Engineering
Language of Instruction:	English
Level of Study:	Graduate
Offered Semester:	Fall and Spring Semesters.

Course Objectives

The purpose of this course is for the student to become informed on the concepts of research methods and publication ethics, incorporate information on these topics into applications

Course Content

The introduction of basic concepts, related to scientific research methods, to graduate students, experiencing the process of preparation of a scientific research proposal, carrying out studies with the appropriate research methods and techniques, presenting in the form of a written report; statistical data and the acquired findings and results while obliging to scientific writing rules and ethical rules

Course Learning Outcomes

- 1-Know the basic principles of research
- 2-Prepare a research proposal
- 3-Choose the appropriate research method and technique suited to the given purpose, analyze data which is compatible with the given purpose
- 4-Write a research report in jurisdiction with the rules
- 5-Realize the importance of ethical principles and ethical point of view in research
- 6-Recognize non-ethical behavior in science