



Course Name:

Graduate Seminar

Course Number: 20-919	Credit: 0
Program: Graduate	Course Type: General Required
Prerequisite: -	Corequisite: -

Course Description (Objectives):

The goal of the seminar course is to teach the fundamentals of scientific research, from defining a research problem to presenting results. It covers research methods, research ethics, proposal writing, and skills for scientific writing and presentation.

Course Content (outline):

- Chapter 1: Academic advising (specific to the faculty)
- Chapter 2: Introduction to research methods.
- Chapter 3: What is scientific research?
- Chapter 4: Research questions/hypotheses.
- Chapter 5: Data collection methods: field and library-based.
- Chapter 6: Research project design.
- Chapter 7: Library studies.
- Chapter 8: Sampling techniques.
- Chapter 9: Ethical considerations and intellectual property (emphasis on avoiding plagiarism)
- Chapter 10: Components of a research proposal.
- Chapter 11: Preparing a research report.
- Chapter 12: Writing a scientific paper.
- Chapter 13: Presentation techniques.
- Chapter 14: Public speaking and communication skills

References:

- "Lecture notes and PowerPoint"
- *Key Factors in Postgraduate Research: A Guide for Students* (Rev. 2006) by N. Sharda
- *The Elements of Logic and Methodology*, Tarbiat Modares University Press