COURSE TITLE: RESEARCH METHODOLOGY AND SCIENTIFIC WRITING  
COURSE NUMBER: CHEM 2072  
CREDIT HOURS: 2  
CONTACT HOURS: 2 LEC. HR/WEEK  
PREREQUISITE:

**Course Description**

Use of the chemical literature: handbooks, chemical encyclopedia, spectral collections, journals, abstracts and indexes, monographs; research methods; scientific writing.

**Learning Outcomes**

By the end of this course students should be able to:

* Describe the importance of research and scientific paper
* Use journals, chemical encyclopedia, abstracts, indexes, and monographs
* Review and present research paper
* develop the necessary caliber in scientific writings and research paper writing

**Course Outline**

* 1. Introduction to scientific research
  2. Scientific writing
  3. Use of chemical literature (handbooks, encyclopedia, spectral collection , monographs)
  4. Research methods
  5. Accessing journals, abstracts and indexes
  6. Preparing scientific paper and presentation
  7. Evaluating scientific papers
  8. Project work