

**Collage of Natural Science  
Department of Chemistry**

*Course Title: Research Methodology and Scientific Writing, Course Code: Chem 2072),  
Cr. Hrs/ECTS: 2/3*

**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

**Mode of Assessment**

Assessment Breakdown	%
Continuous assessment	30
Project work	40
End of Semester Examination	30