

## AD 701: RESEARCH METHODOLOGY (0-4-0: 4)

### Objectives:

This course is design to assist graduate students in the research efforts. This course is best described as *Guided Independent Research*. In this course the instructor is replaced by a coordinator, who should be viewed as a *skilled research resource person*. This course is organized to assist the student in the preparation of their formal proposal for a doctoral dissertation. In addition to course coordinator, students should receive advice on the preparation of this formal proposal from their assigned supervisor.

### Topics

1. Orientation to basic methods of research
  - Scientific method as a basis for analysis
  - Interpretation of results and claims
  - Methods, criteria and evaluation of research
  - Writing critical reviews
2. Characteristics of a research proposal
  - Standard Guidelines to a research proposal
  - Expectations out of a research work
  - Institute Rules and Guidelines
3. Technical Report writing

### References

1. Schloss, P. J., & Smith, M. A. *Conducting Research*. Upper Saddle River, New York: Prentice-Hall.
  2. On Being a Scientist: *Responsible Conduct in Research*, <http://www.nap.edu/openbook/0309051967/html/R1.html>.
  3. What is Research in Computing Science? Chris Johnson, Glasgow Interactive Systems Group (GIST), Department of Computer Science, Glasgow University.
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