Catalog Description:
Selection of a research topic and development of a thesis plan. CR/NC Only.

Prerequisites: Consent of advisor.

Credits: 3 (0 hours lecture, 0 hours laboratory per week)

Text(s): Literature survey as recommended by the advisor.

Additional Material:

Course Coordinator: Advisor

Topics Covered:
An individual project intended to integrate material already covered in previous courses, as well as to provide an in-depth exploration of a topic of special interest or career relevance to the participant. Students work closely with an academic advisor. Topics may include but are not limited to:
I. Identification of Problem
II. Survey of Related Literature
III. Design and Development
IV. Testing or Validation
V. Evaluation of Results

Evaluation Methods: (only items in dark print apply):
1. Examinations / Quizzes
2. Homework
3. Report
4. Computer Programming
5. Project
6. Presentation
7. Course Participation
8. Peer Review

Course Objectives: By the end of this course students will be able to:
1. Identify a research problem. [3, 5, 6]
2. Conduct literature survey. [3]
3. Develop a new approach for solving the problem. [3, 5]
4. Perform research. [3, 5, 6]
5. Analyze results. [3, 5, 6]

*Numbers in brackets refer to method(s) used to evaluate the course objective.

Relationship to Program Outcomes: This course supports the following Electrical Engineering Program Outcomes, which state that our students will:
1. Graduates of the program will possess a breadth and depth of knowledge in
1. Graduates of the program will possess and demonstrate oral and written communication skills. [1-5]
2. Graduates of the program will possess and demonstrate oral and written communication skills. [1-5]
3. Graduates of the program will demonstrate the capability to perform independent learning and investigation. [1-5]

Numbers in brackets refer to course objective(s) that address the Program Outcome.

Prepared By: Mukul Shirvaikar, Professor Date: 25 August 2008