

1. Course Number and Course Title:

COE 695 – Seminar

2. Credits Hours:

1 – 0 – 0

3. Prerequisites and/or Co-Requisites:

Prerequisite: Admission to the MSCoE program

4. Name and Contact Information of Instructor:

Seminar Coordinator

5. Course Description (Catalog Description):

Introduces research methodologies. Explores the planning and realization of research projects. Examines current research issues in engineering using case studies that emphasize the utilization of applied research in designing engineering systems.

6. Textbook and other Supplemental Material:

Textbook:

- Selected readings and notes

Other supplemental material:

- Whitebeck C. and Flowers W., Ethics in Engineering Practice and Research, 1998, Cambridge University Press.

7. Learning Outcomes:

Upon completion of the course, students will be able to:

1. Collect, assimilate, organize and evaluate information in research literature
2. Prepare oral and written presentations of the results of a critical evaluation of literature research
3. Identify, formulate, plan, and conduct a scholarly activity
4. Demonstrate understanding of the ethical and professional issues related to engineering research
5. Demonstrate appreciation of the multidisciplinary nature of the engineering field

8. Teaching and Learning Methodologies:

Methods include seminar presentations and class discussions.

9. Course Topics and Schedule:

Topic	Weeks
Information searches (Librarian)	1
Ethics	1
Introduction to research	1
Conducting research	1
Thesis/report writing and publishing	1
How to write a paper	1
How to apply for a patents yourself under PCT regulations	1
Contemporary research in computer engineering (presentations)	4
Final meeting and general discussion	1
Total:	12

