

EE 497

- 1. Course Number & Name:** EE 497, Engineering Science Colloquium
- 2. Course Credit and Contact hours:** 1 Unit, 1.5 hours
- 3. Course Coordinator:** Dr. Ali Kujooory
- 4. Textbook:** None
- 5. Supplemental Materials:** Laptop for class activities
- 6. Specific Course Information:**
 - a. **Description:** Series of lectures on topics of interest in the relevant fields of engineering. A maximum of 1 unit can be applied to the EE major. Students may not miss any of the EE lectures unless it is substantiated acceptably. A brief summary of each presentation must be submitted after the presentation. The course grade is decided on evaluation of these reports.
 - b. **Prerequisites:** Consent of the instructor only, permission required
 - c. **Co-Requisite:** None
 - d. **Status:** Required for EE program, Elective, Selected Elective
- 7. Specific Goals for the Course:**
 - a. **Specific outcomes of instruction:** Upon successful completion of this course the students will gain:
 - i. Appreciate the trends of science and technology and impact of engineering on nature and human life.
 - ii. Communicate and network with technology experts in industry and academia.
 - iii. Ability to report on writing and presenting technical talks effectively.
 - iv. Recognize the need for life-long learning
 - v. Be ethical in their work and life
 - b. **This course supports the following ABET Student Outcomes:**
 - i. *SO-3: an ability to communicate effectively with a range of audiences.*
 - ii. *SO-4: an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.*

8. Brief List of Topics to be Covered:

- a. The students need to attend six ES Series lectures delivered by invited subject experts from industry and academia on topics of interest and trend of technologies in the relevant fields of electrical and computer engineering and write reports for comments and grading and resubmit for comments if necessary. This can improve the student writing skill.
- b. Additionally, each student is given a topic to research and develop a set of slides to present to her/his classmates. This can improve the student presentation skill.
- c. The students attend 1 - 2 industry tours in the area of electrical engineering to get a feel of what goes on in industry and the environment.