AE 6551 Cognitive Engineering (3-0-3) Course Outline

- Week 1: What is cognitive engineering? What problems does it seek to answer?
- Week 2: Situated behavior human behavior not just as a response to context, but as a creator of context
- Week 3: Ethnographic methods for observing important system dynamics in context.
- Week 4: Measuring human behavior and technology impact in naturalistic environments.
- Week 5: Structured methods for identifying and codifying important system dynamics.
- Week 6: Structured methods for identifying and codifying important task dynamics.
- Week 7: Human interaction with artifacts I Categorizing and understanding HAI.
- Week 8: Human interaction with artifacts II How do people interact with automated/intelligent systems?
- Week 9: Human interaction with artifacts III How do people interact with automated/intelligent systems?
- Week 10: Human interaction with the environment I Using the environment to support behavior.
- Week 11: Models of human decision making
- Week 12: Human interaction Designing teams and collaborative systems
- Week 13: Human interaction with the environment II Procedures
- Week 14: Putting artifacts and the environment together , Distribution of information and its impact on human behavior.
- Week 15:-Discussions of term projects and anything else of interest