The University of Texas at Tyler
Department of Mechanical Engineering

MENG 5395 – Thesis I
Fall 2020

Credits: 0 hours lecture, 9 hours lab per week

Instructor(s): Dr. M. A. Rafe Biswas, Assistant Professor of Mechanical Engineering

Course Details: Research course
E-mail: mbiswas@uttyler.edu

Resource(s): Instructor provided material and advice
MATLAB & Simulink and relevant literature through university library

Course Information

Catalog Description: Completion and approval of thesis.

Prerequisites: Consent of Thesis Advisor.

Required, Elective, Selected: Required

Course Goals

By the end of this course students will:

1. Work on the literature review and develop methodology of thesis project
2. Deliver a report based on progress.

Examples of tasks to meet the goals are:

- Develop a model of a fuel cell based system(s) in a modeling software and running simulations to determine their behavior and response, incorporating a suitable platform to perform thermal fluid analysis of subsystem(s) and control design analysis

Submit a proposal report as well as a literature review.

NOTE: THE SYLLABUS IS SUBJECT TO CHANGE DURING THE COURSE OF SEMESTER AS DEEMED NECESSARY. MANDATORY WEEKLY MEETINGS WILL BE SCHEDULED.