EC501- Project I

CREDIT HOURS

3 Hours

COURSE DESCRIPTION

Topics will depend on student's and supervisor's interest and the graduation project title. They may include data acquisition and interpretation- computer models and simulation or design and experimentation. Standard and multiple realistic constraints must be available. Students are required to give a seminar to present the project results and submit a final report.

RELATION OF COURSE TO PROGRAM

Required

CONTRIBUTION OF COURSE TO MEET THE REQUIREMENTS OF CRITERION 5:

Professional component Content			
Math and Basic Sciences	**Engineering Topics**	**General Education**	**Other**
	✓		

RELATIONSHIP OF COURSE TO STUDENT OUTCOMES:

Student Outcomes		Course aspects
A	An ability to apply knowledge of mathematics, science, and engineering	a_1 a_2
B	An ability to design and conduct experiments, analyze and interpret data.	b_1 b_2 b_3 b_4
C	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economics, environmental, social, political, ethical, health, and safety, manufacturability, and sustainability	c_1 c_2 c_3
D	An ability to function on multi-disciplinary teams.	d_1 d_2 d_3 d_4
E	An ability to identify, formulate, and solve engineering problems	e_1 e_2 e_3
F	An understanding of professional and ethical responsibility	f_1 f_2
G	An ability to communicate effectively	g_1 g_2 g_3
H	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and social content	h_2 h_3
I	A recognition of the need for, and an ability to engage in life-long learning.	i_1 i_2 i_3 i_4
J	A knowledge of contemporary issues within and outside the electrical engineering profession.	j_1 j_2
k	An ability to use the techniques, skills, and modern engineering tools necessary for electrical engineering practice.	k