GAU, Faculty of Engineering

Course Unit Title	Graduation Project I and Graduation Project II
Course Unit Code	EEN402
Type of Course Unit	Compulsory, Electrical-Electronics Engineering
Level of Course Unit	4th Year, Core, Undergraduate(BSc)
National Credits	3
Number of ECTS Credits Allocated	6 ECTS
Theoretical (hour/week)	3
Practice (hour/week)	-
Laboratory (hour/week)	-
Year of Study	4
Semester when the course unit is delivered	7
Mode of Delivery	Face to Face, E-learning activities
Language of Instruction	English
Prerequisities and co-requisities	EEN401
Recommended Optional Programme Components	Departmental core courses should be completed

Objectives of the Course:

1)To provide the student with the ability to analyze and design systems

2) To provide a useful experience through a self study to take the first step to his/her new career which will start after graduation

3) The student will communicate his/her study efficiently, verbal and written, so he/she will learn to express himself/herself better.

Learning Outcomes

When this course has been completed the student should be able to		Assesment.
1	Formulate and analyze a problem/system by examining the current status of problem/system dealt with, considering theoretical knowledge	3,4
2	Develop applicable suggestions and/or solution methods for the problem formulated	3,4
3	Gain the ability to implement a solution method to an existing problem and will be able to evaluate the results	3,4
4	Learn to express himself/herself by reporting and presenting the work	3,4
5	Learn to defend the idea that underlines the results of the study	3,4
Assessment Methods: 1. Written Exam, 2. Assignment, 3. Project/Report, 4.Presentation, 5 Lab. Work		
Course's Contribution to Program		CL
1	Ability to understand and apply knowledge of mathematics, science, and engineering	3
2	Ability to design and conduct experiments as well as to analyze and interpret data	4
3	Ability to work in multidisciplinary teams while exhibiting professional responsibility and ethical conduct	3
4	Ability to apply systems thinking in problem solving and system design	4
5	Knowledge of contemporary issues while continuing to engage in lifelong learning	4
6	Ability to use the techniques, skills and modern engineering tools necessary for engineering practice	4
7	Ability to express their ideas and findings, in written and oral form	5
8	Ability to design and integrate systems, components or processes to meet desired needs within realistic constraints	4
9	Ability to approach engineering problems and effects of their possible solutions within a well structured, ethically responsible and professional manner	5
10	Strong foundation on the fundamentals of Electrical and Electronics Engineering such as Circuit Theory, Signals, Systems, Control and Communications, which are necessary for successful practice in the field	5
11	Awareness on the contemporary requirements, methods and applications of the Electrical and Electronics Engineering	5
CL: Contribution Level (1: Very Low, 2: Low, 3: Moderate, 4: High, 5:Very High)		

Course Contents

Week	Topics		Exams
1			
2		Proposal submission	
3			
4			
5			
6			
7			
8		Progress Report submission	
9			
10			
11			
12			
13			
14		Final Presentation	
15		Project Report Submission	

Recommended Sources

Textbook: Supplementary Material(s):
The sources is determined by the instructor and student depending on the project topic.

Assessment

Project Proposal	5%	Submission via e-learning page
Progress Report	20%	Submission via e-learning page
Evaluation Jury	40%	Cumulative grade of four jury members
Project Supervisor's Assessment	25%	Submission via e-learning page
Final Report	10%	
Total	100%	

ECTS Allocated Based on the Student Workload

Activities	Number	Duration (hour)	Total Workload(hour)
Course duration in class (including the Exam week)	-	-	-
Labs and Tutorials	12	2	24
Assignments	12	3	36
Project/Presentation/Report Writing	3	8	24
E-learning Activities	12	3	36
Quizzes	-	-	-
Midterm Examination	-	-	-
Final Examination	-	-	-
Self Study	14	4	56
Total Workload			176
Total Workload/30 (h)			5.87
ECTS Credit of the Course			6