

## GAU, Faculty of Engineering

<b>Course Unit Title</b>	Graduation Project I and Graduation Project II	
<b>Course Unit Code</b>	EEN402	
<b>Type of Course Unit</b>	Compulsory, Electrical-Electronics Engineering	
<b>Level of Course Unit</b>	4th Year, Core, Undergraduate(BSc)	
<b>National Credits</b>	3	
<b>Number of ECTS Credits Allocated</b>	6 ECTS	
<b>Theoretical (hour/week)</b>	3	
<b>Practice (hour/week)</b>	-	
<b>Laboratory (hour/week)</b>	-	
<b>Year of Study</b>	4	
<b>Semester when the course unit is delivered</b>	7	
<b>Mode of Delivery</b>	Face to Face, E-learning activities	
<b>Language of Instruction</b>	English	
<b>Prerequisites and co-requisites</b>	EEN401	
<b>Recommended Optional Programme Components</b>	Departmental core courses should be completed	
<b>Objectives of the Course:</b>		
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.		
<b>Learning Outcomes</b>		
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		
<b>Course's Contribution to Program</b>		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	
<b>Recommended Sources</b>			
<b>Textbook: Supplementary Material(s):</b>			
The sources is determined by the instructor and student depending on the project topic.			
<b>Assessment</b>			
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%		
<b>ECTS Allocated Based on the Student Workload</b>			
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