FUTURE UNIVERSITY IN EGYPT جامعة المستقبل

Faculty of Engineering & Technology

Graduation Project

Information :

Course Code :	COM 500	**Level :**	Undergraduate	**Course Hours :**	0.00- Hours

Department : Specialization of Electronics & Communication

Instructor Information :

Title	Name	Office hours
Lecturer	MOHAMED MOUSA SAYED EMAM AHMED	

Area Of Study :

ÅDevelop the studentsôknowledge about the fundamentals and contemporary topics related to electronics & communication domain of the project.
ÅTrain students to apply knowledge of mathematics, science, information technology, electronics and communication engineering knowledge and practices integrally to design and/or implement a process, component or system related to electronics & communication engineering.
ÅEnhance studentsôprogramming skills, software tools applications and/or practical capabilities appropriate to the project domain.
ÅDevelop studentsôsoft skills including writing and presentation skills; team work; lifelong learning skills; effectively managing tasks, resources and time; and interface to real life applications.

Description :

An engineering assignment requiring the student to demonstrate initiative and assume responsibility, The student will select a project at the end of the ninth semester, Students can propose their own project, A faculty member will provide supervision, A project report is required at the end of the tenth semester

Course outcomes :

a.Knowledge and Understanding: :	
1 -	Demonstrate the knowledge, fundamentals, theories and/or practices gained during the study program and relevant to the project domain.
2 -	Identify quality assurance systems, codes of practice and standards, health and safety requirements appropriate to the topic of the project.
3 -	Demonstrate contemporary electronics & communication engineering topics related to the project domain
4 -	Describe design methods and tools for electronics & communication engineering equipment and systems relevant to the project domain.
b.Intellectual Skills: :	
1 -	Think in a creative and innovative way in problem solving and design.
2 -	Analyze real-life problems
3 -	Use software package related to the topic.
4 -	Combine, exchange, and assess different ideas and knowledge from range of sources for solving electronic and communication systems problems

5 -	Investigate the failure and develop innovative solution for electronic and communication systems, and processes
c.Professional and Practical Skills: :	
1 -	Professionally merge the knowledge of electronic and communication systems to improve design, products and services.
2 -	Find and implement suitable solutions
3 -	Use computational facilities and related software tools, measuring instruments, workshops and/or relevant laboratory equipment to design and diagnosis experiments, collect data, analyse and interpret results.
4 -	Follow up safety requirements at work and observe the appropriate steps to manage risks
5 -	Apply quality assurance and follow the appropriate codes and standards.
6 -	Write, edit and present a technical report.
7 -	Exchange knowledge and skills with communication systems engineering community and industry.
d.General and Transferable Skills: :	
1 -	Collaborate effectively within multidisciplinary team.
2 -	Work in stressful environment and within constraints.
3 -	Communicate effectively.
4 -	Demonstrate efficient IT capabilities
5 -	Lead and motivate individuals.
6 -	- Effectively manage tasks, time, and resources.
7 -	Search for information and engage in life-long self-learning discipline.
8 -	Acquire entrepreneurial skills.
9 -	Refer to relevant literature's.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Project Selection and Specification	10		
Literature Review and Background Study	20		
Planning For The Project	10		
Analysis and Design	40		
Implementation	60		
Testing	20		
Debugging and Finalization	20		
Documentation	20		

Teaching And Learning Methodologies :

Interactive Lecturing
Discussion
Problem Solving
Experiential Learning
Cooperative Learning

Research
Field Visit
Case study

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
ÅFinal exam	50.00		
Assignments	5.00		
Computer project	10.00		
monthly presentation	10.00		
Participation and Discussion	25.00		