EC341 Electromagnetics

COURSE INFORMATION

Prerequisites		Academic Year & Level		Teaching Methods			Credit Hrs.
		Year	Semester	Lecture	Tutorial	Laboratory	
BA 114	BA224	5	10	2	2	0	3

COURSE AIM

The course aims at introducing the student to the basic concepts of electromagnetisms.

COURSE WEEKLY CONTENTS

1 Review of vector analysis.
2 Electromagnetic fields :coulombs law.
3 Gauss's Law
4 Electric potential conductors and semi conductors
5 Dielectric and capacitance
6 Polarization
7 7th week evaluation.
8 Magnetic field and flux density
9 Bioat savart 's law
10 Ampere 's Law
11 Magnetic potential
12 12th week evaluation
13 Maxwell's equation and magnetic vectors
14 Boundary conditions
15 Displacment vector and Telephone lines

STUDENT GRADING & ASSESSMENT

Weeks	Exams	Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	**20 Midterm**	←	10 MARKS To be freely distributed among possible assessments			→	**30**
8 to 12	←		20 MARKS			→	**20**
13 to 15	←		10 MARKS			→	**10**
16 or 17	**40 Final**						**40**
Total	**Exams**	**Assign.**	**Quizzes**	**Reports**	**Present.**	**Lab.**	100

R E F E R E N C E S

Textbook	Hayat book 4th edition
Other	