جامعة المجمعة
Majmaah University

Course Report

College: Engineering
Programme Electrical Engineering
Course : Electromagnetics II

Muharram 1437 H

This form compatible with NCAAA Edition

Course Report

Institution:	Al Majmaah University	Date of CR	23 /1 / 2017.
College/ Department	Engineering / Electrical Engineering		

A Course Identification and General Information

1. Course title:	Electromagnetics II	Code	EE 234	Section	106
2. Name of course instructor	Dr. Mohamed Ouda	Location :	Al Yahya Building		
3. Year and semester to which this report applies:	Spring 2016				
4. Number of students starting the course?	10	Students completing the course?	5		

5. Course components:

	Lecture	Tutorial	Laboratory / Studio	Practical	Other	**Total**
Contact Hours	45	15	0	0	0	**60**
Credit	3	0	0	0	0	**3**

B- Course Delivery:

1. Coverage of Planned Program

Topics Covered	**Planned** Contact Hours	**Actual** Contact Hours	**Reason for Variations (*)**
Time varying fields; Faraday's law, Transformer and motional emfs; Displacement current; Maxwell's Equations.	16	16	……..
Waves Maxwell's equations and time harmonic fields; Wave equation; Power transfer and Poynting vector; Plane wave propagation in free space, in lossy dielectrics and in good conductors; Polarization; Reflection of plane wave at normal and oblique incidence;	16	16	……..
Transmission lines; Impedance matching	12	12	……..
Waveguides	8	8	……..

Introduction to radiation and antennas; Antenna parameters; Wire antennas	8	8	……..

(*) if there is a difference of more than 25% of the hours planned

2. Consequences of Non-Coverage of Topics

Topics not Fully Covered (if any)	Effected Learning Outcomes	Possible Compensating Action
……	……	……
……	……	……
……	……	……
……	……	……

3. Course learning outcome assessment.

List course learning outcomes		List methods of assessment for each LO	Summary analysis of assessment results for each LO
1.0	**Knowledge**		
1.1	**……**	……	……
1.2	**……**	……	……
1.3	**……**	……	……
1.4	**……**	……	……
1.5	**……**	……	……
1.6	**……**	……	……
2.0	**Cognitive Skills**		
2.1	Analyze Plane Waves propagation through various media by apply the general Maxwell's Equations.	Standardized exams, Seminars and Assignment	75%
2.2	Determine the dielectric and magnetic properties of given materials		
2.3	Apply the boundary conditions for electric and magnetic fields at dielectric interfaces		
2.4	Solve Transmission line problems using EM field theory and electric circuit theory		
2.5	Analyze transmission lines by applying the transmission-line equations and characteristic quantities and Smith chart.		
2.6	Analyze the use of rectangular waveguide to guide electromagnetic waves.		
2.7	Determine the radiated field and the radiation parameters of Hertzian dipole and the half-wave dipole.		
3.0	**Interpersonal Skills & Responsibility**		

List course learning outcomes		List methods of assessment for each LO	Summary analysis of assessment results for each LO
3.1	.....	.....	.....
3.2	.....	.....	.....
3.3	.....	.....	.....
3.4	.....	.....	.....
3.5	.....	.....	.....
3.6	.....	.....	.....
4.0	**Communication, Information Technology, Numerical**		
4.1	Apply knowledge of transformer and motional electromotive forces, displacement currents and time varying Maxwell's Equations	Standardized exams, memorization and individual presentation	60%
4.2	Determine the radiated field and the radiation parameters of Hertzian dipole and the half-wave dipole.		
4.3	.....		
4.4	.....		
4.5	.....		
4.6	.....		
5.0	**Psychomotor**		
5.1	.....	.....	.....
5.2	.....	.....	.....
5.3	.....	.....	.....
5.4	.....	.....	.....
5.5	.....	.....	.....
5.6	.....	.....	.....

Summarize any actions you recommend for improving teaching strategies as a result of evaluations in table 3 above.

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.....
.....
.....

4. Effectiveness of Planned Teaching Strategies for Intended Learning Outcomes set out in the Course Specification

List Teaching Methods set out in Course Specification	Were They Effective?	

	No	Yes	Difficulties Experienced (if any) in Using the Strategy and Suggested Action to Deal with Those Difficulties.
Giving Lectures,		X	……..……
Group discussion		x	……..……
Practical project		x	……..……
……..…			……..……
……..…			……..……

C. Results

1. Distribution of Grades

Letter Grade	Number of Students	Student Percentage	Analysis of Distribution of Grades
A+	1	17%	First exam 20% Second Exam 20% Quizzes & Homework 10% Project 10% Final exam 40% Total 100% The distribution fit a normal distribution curve
A	1	17%	
B+	0	0	
B	1	17%	
C+	0	0	
C	0	0	
D+	0	0	
D	2	33%	
F	1	17%	
Denied Entry	3	30%	……..
In Progress	0	0%	……..
Incomplete	0	0%	……..
Pass	5	50%	……..
Fail	1	10%	……..

Withdrawn	1	10%	……..

2. Analyze special factors (if any) affecting the results

- Group discussion and the practical project helped the students significantly
- ……
- ……
- ……
- ……

3. Variations from planned student assessment processes (if any) .

a. Variations (if any) from planned assessment schedule (see Course Specifications)

Variation	Reason
……	……
……	……
……	……

b. Variations (if any) from planned assessment processes in Domains of Learning

Variation	Reason
……	……
……	……
……	……

4. Student Grade Achievement Verification :

Method(s) of Verification	Good
……colleague review……	……
……	……
……	……

D. Resources and Facilities

Difficulties in access to resources or facilities (if any)	Consequences of any difficulties experienced for student learning in the course
Non	……
……	……
……	……

E. Administrative Issues

Organizational or administrative difficulties encountered (if any)	Consequences of any difficulties experienced for student learning in the course

……	……
……	……
……	……

F Course Evaluation

1 Student evaluation of the course (Attach summary of survey results)

a. List the most important recommendations for improvement and strengths

- Question related to the beginning of the course
- Clarification of the course relation to other courses in the program.
- Available during Office hours
- The lectur

b. Response of instructor or course team to this evaluation

- Number of student less than 5 (only 4 student answered the survey) which do not a good reflection.
- The course is considered a difficult and demanding course that is why the students are usually harsh on evaluation
- the syllabus will be followed more precisely with a better communication with the students regarding the course.

2. Other Evaluation :

a. List the most important recommendations for improvement and strengths

- General evaluation is satisfactory
- ……
- ……

b. Response of instructor or course team to this evaluation :

- Work more close with student regarding the course delivery.
  ……
- ……

G Planning for Improvement

1. Progress on actions proposed for improving the course in previous course reports (if any).

Actions recommended from the most recent course report(s)	Actions Taken	Action Results	Action Analysis
a. Interacting the course with suitable simulation software	Some animations are used	Better understanding	……
b. Interacting the course with proper lab facilities	non…	……	……

c. the addition of some reference books for the course	Non		……

2. List what other actions have been taken to improve the course

- More interactive teaching methods were adapted
  ……
- ……

3. Action Plan for Next Semester/Year

Actions Recommended for Further Improvement	Intended Action Points (should be measurable)	Start Date	Completion Date	Person Responsible
a. Using on line quizzes	Number of quizzes	Week 2	Week 14	Instructor
Adapting active teaching strategies	report	Week 2	Week 14	Instructor
c. the addition of some reference books for the course	the improvement of the course syllabus	Week 1	Week 1	Instructor

Course Instructor:

Name: Dr. Mohamed Ouda
Signature: ..... Date Report Completed: 23/1/2017

Program Coordinator:

Name: .....
Signature: ..... Date Received : ...../…../1437 H

تقييم عضو هيئة التدريس في مقرر معين للعام الجامعي 1437 /1438هـ الفصل الأول 38/37

الكلية : الهندسة بالمجمعة
اسم المقرر : الالكترونيات القياسية 2
رمز المقرر : 234 كهر
أستاذ المقرر : محمد خليل محمد عوده

القسم : الهندسة الكهربائية
شعبة النشاط بالمقرر : تمارين
رقم المقرر : 43096
عدد المستجيبين : 10

أسئلة خاصة ببداية المقرر

م	بنود التقييم	لا أوافق مطلقا (1) العدد	لا أوافق مطلقا (1) %	لا أوافق (2) العدد	لا أوافق (2) %	أوافق إلى حد ما (3) العدد	أوافق إلى حد ما (3) %	أوافق (4) العدد	أوافق (4) %	أوافق بشدة (5) العدد	أوافق بشدة (5) %	ن	المتوسط الحسابي	النسبة %
1	كانت الخطوط الأساسية (بما في ذلك المعلومات والمهارات التي صمم المقرر لتطويرها) واضحة بالنسبة لي	0	0	0	0	1	100	0	0	0	0	1	3	60
2	كانت متطلبات النجاح في المقرر (بما في ذلك الواجبات التي يتم التقويم بناء عليها ومعايير التقويم) واضحة بالنسبة لي	0	0	0	0	1	100	0	0	0	0	1	3	60
3	كانت مصادر مساعدتي في المقرر (بما في ذلك الساعات المكتبية لعضو هيئة التدريس والمراجع) واضحة بالنسبة لي	0	0	0	0	1	100	0	0	0	0	1	3	60
	المجموع	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	100	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
	التقدير : مرضي													