

College: Engineering
Programme Electrical Engineering
Course : Electromagnetic I

Course Report

Institution :	Al Majmaah University	Date of CR	25 / 1 / 2017
College/ Department	Engineering/ Electrical Engineering		

A Course Identification and General Information

1. Course title: Electromagnetic I		Code: EE 206		Section 70		
2. Name of course instructor Dr Yazeed Qasaymeh		Location : College of Engineering				
3. Year and semester to which this report applies: 2016/2017 First Semester						
4. Number of students starting the course?		32	Students completing the course?		27	
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 (*)
Vector Algebra	4	4	.....
Coordinate system and transformation	8	8	.....
Vector calculus	4	4	.....
Electrostatic fields	12	12	.....
Electric field in material space	8	8	.....
Electrostatic boundary-value problem	4	4	.....
Magneto-static field	12	12	.....
Magnetic force material and devices	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)	Effectuated Learning Outcomes	Possible Compensating Action
None

3. Course learning outcome assessment.

List course learning outcomes		List methods of assessment for each LO	Summary analysis of assessment results for each LO
Knowledge			
.....	
Cognitive Skills			
e	Relate the electrostatic field definition	Standardized exams	74% [1st exam Q3]
	Identify the electric field in material space		
c	Identify magneto-static fields	Standardized exams	47% [2nd exam Q3]
	Produce electric potential using charge distribution using Poisson equation		
Employ magnetic vector potential equation in determining the current density			
Interpersonal Skills & Responsibility			
.....	
Communication, Information Technology, Numerical			
a	Recognize the basic vector algebra	Standardized exams	69% [2nd exam Q1]
	Perform the transformation between coordinate system		
k	Identify the vector calculus derivation and integration	Standardized exams	47% [final exam Q6]
	Relate the electric fields on boundary interface		
	Predict the electric fields on a region using the principle of image theory		
Determine the magnetic fields on boundary interface			
Psychomotor			
.....	

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

The text and reference books problems will be used as self-homework's related to each topic of the course.

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?		Difficulties Experienced (if any) in Using the Strategy and Suggested Action to Deal with Those Difficulties.
	No	Yes	
Giving Lectures		X	NO

C. Results

1. Distribution of Grades

Letter Grade	Number of Students	Student Percentage	Analysis of Distribution of Grades
A+	1	3.12 %	.....
A	1	3.12 %	The Student Was Close To A+ Grade
B+	1	3.12 %	.....
B	1	3.12 %	.....
C+	5	15.62 %	One Student Was Close To B Grade
C	6	18.75 %	.....
D+	2	6.25 %	.....
D	5	15.62 %	Five Students Were Weak and Hardly Passed.
F	5	15.62 %	.....
Denied Entry	1	3.12 %	One Student Banned to Attend The Final Exam
In Progress	0	0%	.....
Incomplete	0.	0 %	.....
Pass	22	68.75 %	.....
Fail	5	15.62 %	Five Students Fail the Course
Withdrawn	4	12.5 %	Four Students Withdrawn the Course

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

The results are within the normal distribution and pass percentage is good.

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

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

Variation	Reason
None	

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

Variation	Reason
None	

4. Student Grade Achievement Verification :

Method(s) of Verification	Conclusion
All papers are reviewed by independent reviewer from the department who will who will double check the sum of the total marks	Level of fairness of collection is fairly high
Grades approved by Head of department and the dean of the EC.	Approved

D. Resources and Facilities

Difficulties in access to resources or facilities (if any)	Consequences of any difficulties experienced for student learning in the course
None	

E. Administrative Issues

Organizational or administrative difficulties encountered (if any)	Consequences of any difficulties experienced for student learning in the course
None	

F Course Evaluation

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

a. List the most important recommendations for improvement and strengths <ul style="list-style-type: none"> The course evaluation survey shows that the students are fairly agree with course delivery and contends
b. Response of instructor or course team to this evaluation <ul style="list-style-type: none"> The course instructor is glad that the students are agreed with course delivery

2. Other Evaluation:

a. List the most important recommendations for improvement and strengths <ul style="list-style-type: none">
b. Response of instructor or course team to this evaluation: <ul style="list-style-type: none">

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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) Mathematical Exercise	More exercises were solved from textbook and reference book during class time and given as homework	The students shows a better understanding of electromagnetic definitions and concepts	.....
b) Student Participation	The students were more involved during the theory explanation and solving the examples.	Student improved their skills in getting answers and perform accurate calculations compared to the semester beginning	.....
c) Micro-Projects	The students were asked to design and present a prototyped micro-project that related the theory into practice	The students were able to relate the theory to practice during their presentation of the microproject	.....

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

• Force the students to use both the textbook and the reference book.

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) More exercise	More exercises will be given to students to improve their mathematical skills and theoretical understanding	Beginning of Second semester 2016/2017	End of Second semester 2016/2017	Course Instructor
b) More student participation	Ask student to complete solving some problems to the end during the class using calculator	Beginning of Second semester 2016/2017	End of Second semester 2016/2017	Course Instructor
c) Micro-projects	The students will be asked for micro-projects for the purpose of relating theory to practice	Beginning of Second semester 2016/2017	End of Second semester 2016/2017	Course Instructor

d) Review the course CLOs	The course CLOs will be updated by course instructor and reviewed by assigned committees	Beginning of second semester 2016/2017	End of second semester 2016/2017	Course Instructor
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Course Instructor:

Name: Dr Yazeed Qasaymeh
Signature: Date Report Completed: 25/ 1 / 2017

Program Coordinator:

Name: Dr Abdullah Almuhasien
Signature: Date Received : / / 2017

Important Notes:

- A separate Course Report (CR) should be submitted for every course and for each (section " Male & Female" or Academic Programme or campus location where the course is taught) even if the course is taught by the same person
- Each CR is to be completed by the course instructor (Separate reports attached) and given to the program coordinator At the end of each course
- Course Reports are to discuss by the academic (Programme) Department Council

هـ 1437 / 1438 ي عماجلا ماعلا نيعم ررقم في سيردتلا تئيه وضع مبيقتل صفا الأول 38/37

مسقلا : تسدنهلما تينابرهكا

طاشنلا ررقملاير : فرضاحم

تعييط : 43964

ررقملا مقر :

ددع نيلجسما : 32

لاكلية : تسدنهلما تعمجلاب

ساقملا مبرر : تيسيطانغمورهكا 1

مرملا زقررر : 206 رهك

سأتملا ذاققررر : ديزيدمحم مراكا ميماسقة

تلتسأ تصاخ اميدتدل لآخر ررقملا

م	مبيقتلا دونب	لا قفاوا مطلقا (1)		لا اوافق (2)		قفاوا يلا دحام (3)		قفاوا بشدة (5)		ن	طسوتملا ي ياسحلا	تسبنلا %
		%	ددعلا	%	ددعلا	%	ددعلا	%	ددعلا			
1	ناك ررقملا ذيفنت عايشلاو يتلا بلط يئم ادا هو تقستم عموطخلا تيساسلا للمقرر .	2	13.33	1	6.67	6	40	5	33.33	15	3.13	62.6
1	ناك ررقملا ذيفنت عايشلاو يتلا بلط يئم اهو اوا تقستم عموطخلا تيساسلا ررقملا .	1	8.33	1	8.33	5	8.33	3	25	12	3.33	66.6
2	ناك وضع تئيه سيردتلا امزلم قملا عاطع ابل كشير رر ل ماكل ثم) : ادب ددحملا تقولا في تارضاحملا ، مناد لكشير سيردتلا تئيه وضع دجاوت دادعلا سيردتلا في تدعاسملا داوملا ديچلا ، وهكذا) .	1	8.33	3	25	3	25	3	25	12	3.17	63.4
2	ناك وضع تئيه سيردتلا امزلم لكشير ررقملا عاطع ابل ماک (مثل: ادب ددحملا تقولا في تارضاحملا ، مناد لكشير سيردتلا تئيه وضع دجاوت دادعلا سيردتلا في تدعاسملا داوملا ديچلا ، وهكذا).	3	20	0	0	4	0	5	33.33	15	3.33	66.6
3	يدلو وضع تئيه سيردتلا يذلا موقيد مبدقتير ررقملا اذه ماملل ماک يوتحمب المقرر .	3	20	0	0	5	0	5	33.33	15	3.2	64
3	يدلو وضع تئيه سيردتلا يذلا موقيد مبدقتير ررقملا اذه ماملل ماک يوتحمب المقرر .	1	8.33	1	8.33	5	8.33	3	25	12	3.33	66.6
4	ناك وضع تئيه سيردتلا ادجوم تدعاسملا للاذ تاعاسملا المكتبية .	1	8.33	3	25	3	25	4	33.33	12	3.08	61.6
4	ناك وضع تئيه سيردتلا ادجوم تدعاسملا للاذ تاعاسملا المكتبية .	3	20	1	6.67	3	6.67	6	40	15	3.2	64
5	ناك وضع تئيه سيردتلا اسمحتم امل موقيد بتديسه .	1	8.33	2	16.67	5	16.67	2	16.67	12	3.17	63.4
5	ناك وضع تئيه سيردتلا اسمحتم امل موقيد بتديسه .	3	20	0	0	3	0	7	46.67	15	3.33	66.6
6	ناك وضع تئيه سيردتلا اسمحتم امل موقيد بتديسه لي .	3	20	0	0	6	0	4	26.67	15	3.13	62.6
6	ناك وضع تئيه سيردتلا اسمحتم امل موقيد بتديسه لي .	2	16.67	1	8.33	6	8.33	1	8.33	12	3	60
7	انديمو انييدر ررقملا في حديق امل ل ناك ، (توررقملا صوصنلا ، تاصيختلا ، عجارملا ، امو شابيهها) .	2	16.67	1	8.33	3	8.33	4	25	12	3.25	65
7	انديمو انييدر ررقملا في حديق امل ل ناك ، (توررقملا صوصنلا ، تاصيختلا ، عجارملا ، امو شابيهها) .	3	20	2	13.33	4	13.33	5	33.33	15	2.93	58.6
8	تناكر داصملا يتلا اهنجتحا في ررقملا اذه قرفاوت مامل جاتحا اليها .	1	8.33	3	25	4	25	2	16.67	12	3.08	61.6
8	تناكر داصملا يتلا اهنجتحا في ررقملا اذه قرفاوت مامل جاتحا اليها .	3	20	1	6.67	5	6.67	4	26.67	15	3.07	61.4
9	ناك كانه مادختسا لعف تينقتلا معدل يميلعت في هذا المقرر .	2	13.33	3	20	6	20	3	40	15	2.87	57.4
9	ناك كانه مادختسا لعف تينقتلا معدل يميلعت في هذا المقرر .	1	8.33	2	16.67	5	16.67	4	41.67	12	3	60
10	تدجو اميچشت عاقلا تلتسلا ريوطتو تصاخلا يراكفا في هذا المقرر .	3	20	2	13.33	6	13.33	2	40	15	2.87	57.4
10	تدجو اميچشت عاقلا تلتسلا ريوطتو تصاخلا يراكفا في هذا المقرر .	1	8.33	2	16.67	4	16.67	3	33.33	12	3.25	65

1437/1438 هـ في عماجلا ماعلا نيعم ررقم في س يردتلا تئيه وضع مبيقتل صفا الأول 38/37

مسقلا : تسدنهلا تيناير هكلا

طاشنلا ررقملا ب : فراضم

43964 تيعيبط

ررقملا مقر :

ددع نيلجسلا : 32

لاكلية : تسدنهلا تعمجلا ب

ساقملا برر : تيسيطانغمور هكلا 1

مرملا زقرر : 206 رهك

سأتملا ناقرر : ديزيدمحم مركا مياسة

ميوقتن ررقملا

م	مبيقتلا دوئب	لا قفاوا مطلقا (1)		لا اوافق (2)		قفاوا لا دحام (3)		قفاوا (4)		قفاوا بشدة (5)		ن	طسوتما ي ياسحلا	تيسنلا %
		%	ددعلا	%	ددعلا	%	ددعلا	%	ددعلا	%	ددعلا			
1	ام متملعتي في ررقملا اذه مهم ينديفيسو مستقبلا.	20	3	13.33	2	26.67	4	20	3	20	3	15	3.07	61.4
1	ام متملعتي في ررقملا اذه مهم ينديفيسو مستقبلا.	8.33	1	8.33	1	41.67	5	25	3	16.67	2	12	3.33	66.6
2	ي ندعاسي لعر ررقملا اذه لعي تردن بسحت ريكفتلا لحو تلاكشملا لادب نم ظفحت امولعلا فقط.	20	3	13.33	2	20	3	33.33	5	13.33	2	15	3.07	61.4
2	ي ندعاسي لعر ررقملا اذه لعي تردن بسحت ريكفتلا لحو تلاكشملا لادب نم ظفحت امولعلا فقط.	8.33	1	8.33	1	33.33	4	25	3	25	3	12	3.5	70
3	ي ندعاسي لعر ررقملا اذه نيسحتي تارايم في لعر لمرعا لكش فريق.	20	3	13.33	2	40	6	20	3	6.67	1	15	2.8	56
3	ي ندعاسي لعر ررقملا اذه نيسحتي تارايم في لعر لمرعا لكش فريق .	16.67	2	8.33	1	33.33	4	16.67	2	25	3	12	3.25	65
4	ي ندعاسي لعر ررقملا اذه ردة نيسحتي لعي لاصتلا بافاعلية.	20	3	0	0	33.33	5	40	6	6.67	1	15	3.13	62.6
4	ي ندعاسي لعر ررقملا اذه لعي تردن بسحت لاصتلا بافاعلية .	8.33	1	25	3	41.67	5	16.67	2	8.33	1	12	2.92	58.4
خومجلا		15.21	17	11.25	12	33.75	36	24.58	27	15.21	16		3.13	62.68
ريدقتلا : ي ضم														

هـ 1438 / 1437 يعماجلا ماعلا نيعم ررقم في سبردتلا تئيه وضع ميقتل صفا الأول 38/37

مسقلا : تسدنهلا تينابرهكلا

طاشنلا ررقملا ب : فرضاحم

تعييط 43964

ررقملا مقر :

ددع نيلجسما : 64

لاكلية : تسدنهلا تعمجملا ب

ساقملا مهرر : تيسيطانغمور هكلا 1

مرملا زقررر : 206 رهك

سأتملا ناقررر : ديزيدمحم مركا اسقميد

