Course Report

College: Engineering

Programme Electrical Engineering

Course : Electromagnetic I

Course Report

Institution :	Al Majmaah University	Date of CR	20 /3 / 1437 H.

College/ Department   Engineering /Electrical Engineering ....

A Course Identification and General Information

1. Course title: ..Electromagnetic I   Code   .EE 206   Section   584.
2. Name of course instructor   Dr Yazeed Qasaymeh   Location :   College of Engineering
3. Year and semester to which this report applies: 1436/1437
4. Number of students starting the course?   28   Students completing the course?   24

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	………………………………..
………………………………..	………	………..	………………………………..

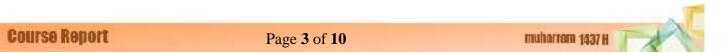(*) if there is a difference of more than 25% of the hours planned

2. Consequences of Non-Coverage of Topics

Topics not Fully Covered (if any)	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	…………………………………………………	……………………	……………
2.2	An ability to design a system, component, or process to meet desired needs within realistic constraints	Lecture, small group work, , research activities, lab demonstrations, projects and individual presentation	Attachment at the end of the report
2.3	An ability to identify, formulate, and solve engineering problems	Lecture, small group work, , research activities, lab demonstrations, projects and individual presentation	Attachment at the end of the report
2.4	…………………………………………………	……………………	……………
2.5	…………………………………………………	……………………	……………
2.6	…………………………………………………	………………	………………
3.0	**Interpersonal Skills & Responsibility**		
3.1	…………………………………………………	……………………	……………
3.2	…………………………………………………	……………………	……………
3.3	…………………………………………………	……………………	……………
3.4	…………………………………………………	……………………	……………

	List course learning outcomes	List methods of assessment for each LO	Summary analysis of assessment results for each LO
3.5	....	....	....
3.6	....	....	....
4.0	**Communication, Information Technology, Numerical**		
4.1	An ability to apply knowledge of mathematics, science, and engineering	Lecture, research activities, lab demonstrations, projects, case studies, memorization and individual presentation	Attachment at the end of the report
4.2	....	....	
4.3	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	Lecture, research activities, lab demonstrations, projects, case studies, memorization and individual presentation	Attachment at the end of the report
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.

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

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	…………………..…………………………..
…………………………………………….…			…………………..…………………………..
…………………………………………….…			…………………………………………….…
…………………………………………….…			…………………………………………….…
…………………………………………….…			…………………………………………….…

C. Results
1. Distribution of Grades

Letter Grade	Number of Students	Student Percentage	Analysis of Distribution of Grades
A+	2	7.1%	…………………………………………………..
A	4	14.28%	…………………………………………………..
B+	2	7.1%	…………………………………………………..
B	0	0 %	…………………………………………………..
C+	4	14.28%	…………………………………………………..
C	2	7.1%	…………………………………………………..
D+	1	3.5%	…………………………………………………..
D	3	10.71 %	…………………………………………………..
F	6	21.42 %	…………………………………………………..
Denied Entry	1	3.5%	…………………………………………………..
In Progress	0	0%	…………………………………………………..
Incomplete	0	0 %	…………………………………………………..
Pass	18	64.28 %	…………………………………………………..

| Fail | 6 | 21.42 % | …………………………………………………………………… |
| Withdrawn | 3 | 10.7 % | ………………………………………………………………….. |

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

- ……………………………………………………………………………………………
- ……………………………………………………………………………………………
- ……………………………………………………………………………………………
- ……………………………………………………………………………………………
- ……………………………………………………………………………………………

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	Conclusion
………………………………………	………………………………………
………………………………………	………………………………………
………………………………………	………………………………………

D. Resources and Facilities

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

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
- ………………………………………………………………………………………
- ………………………………………………………………………………………
- ………………………………………………………………………………………
- ………………………………………………………………………………………

b. Response of instructor or course team to this evaluation
- ………………………………………………………………………………………
- ………………………………………………………………………………………
- ………………………………………………………………………………………
- ………………………………………………………………………………………

2. Other Evaluation :

a. List the most important recommendations for improvement and strengths
- ………………………………………………………………………………………
- ………………………………………………………………………………………
- ………………………………………………………………………………………
- ………………………………………………………………………………………

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

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
…………………	……………	…………………	…………………
…………………	……………	…………………	…………………
…………………	…………	…………………	…………………
………………………	………………	…………………	…………………

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

- Using videos from the internet for better theory understanding
- Giving practical examples
- ……………………………………………………………………………………………………
- ……………………………………………………………………………………………………

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. Interacting the course with suitable simulation software	An application for getting a licensed software is in progress	…/…/1437 H	…/…/1437 H	……..…
b. Interacting the course with proper lab facilities	A plan for developing a Lab is in progress	…/…/1437 H	…/…/1437 H	……..…
c. the addition of some reference books for the course	the improvement of the course syllabus	…/…/1437 H	…/…/1437 H	……..…
………………………	………………………	…/…/1437 H	…/…/1437 H	……..…
………………………	………………………	…/…/1437 H	…/…/1437 H	……..…

Course Instructor:

Name: Dr Yazeed Qassaymeh
Signature: ....   Date Report Completed: 19/3/1437 H

Program Coordinator:

Name: Dr Abdullah Almuhaisen
Signature: ....   Date Received :   ....../...../1437 H

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

College of Engineering
Department of Electrical Engineering
Analysis of Assessment Results

Course ID: EE 206   **Course Title:** Electromagnetics 1

Academic Year 2015\2016   **Semester** Fall (First)   **Section Number** 584

The Learning Outcome (a) An ability to apply knowledge of mathematics, science, and engineering

The Key Performance Indicator appropriate engineering interpretation of mathematical and scientific terms

Rubrics:

Unsatisfactory 18	Developing 2	Satisfactory 4
Mathematical terms are interpreted incorrectly or not at all	Most mathematical terms are interpreted correctly	Shows appropriate engineering interpretation of mathematical and scientific terms

Assessment Method Used: Exam

The question Information:

Number of students 24   **Total Mark** 6   **Result** 47 **%**

The overall performance

Mathematical terms are interpreted incorrectly or not at all

College of Engineering
Department of Electrical Engineering
Analysis of Assessment Results

Course ID: EE 206   **Course Title:** Electromagnetics 1

Academic Year 2015\2016   **Semester** Fall (First)   **Section Number** 584

The Learning Outcome (c) An ability to design a system, component, or process to meet desired needs within realistic constraints

The Key Performance Indicator Appling engineering and/or scientific principles correctly to design practical processes

Rubrics:

Unsatisfactory 9	Developing 2	Satisfactory 13
No application of engineering and/or scientific principles	Includes only minor or cursory consideration of economic, safety, and environmental constraints	Applies engineering and/or scientific principles correctly to design practical processes

Assessment Method Used: Exam

The question Information:

Number of students 24   **Total Mark** 6   **Result** 72 **%**

The overall performance

Includes only minor or cursory consideration of economic, safety, and environmental constraints

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Course ID: EE 206   **Course Title:** Electromagnetics 1

Academic Year 2015\2016   **Semester** Fall (First)   **Section Number** 584

The Learning Outcome (e) An ability to identify, formulate, and solve engineering problems

The Key Performance Indicator Solutions creativity alternatives

Rubrics:

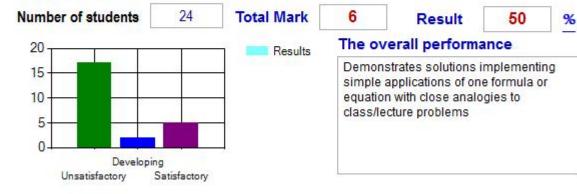| Unsatisfactory 17	Developing 2	Satisfactory 5
Demonstrates solutions implementing simple applications of one formula or equation with close analogies to class/lecture problems	Demonstrates solution with integration of diverse concepts or derivation of useful relationships involving ideas covered in course concepts; however, no alternative	Demonstrates creative synthesis of solution and creates new alternatives by combining knowledge and information

Assessment Method Used: Exam

The question Information:

Number of students 24   **Total Mark** 6   **Result** 50 %

The overall performance

Demonstrates solutions implementing simple applications of one formula or equation with close analogies to class/lecture problems

Course ID: EE 206 **Course Title:** Electromagnetics 1

Academic Year 2015\2016 **Semester** Fall (First) **Section Number** 584

The Learning Outcome (k) An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

The Key Performance Indicator Relate data to theory

Rubrics:

Unsatisfactory 7	Developing 6	Satisfactory 11
Makes no attempt to relate data to theory	Applies appropriate theory to data when prompted to do so, but misinterprets physical significance of theory or variable involved; makes errors in unit conversions	Applies appropriate theory to data and interprets physical significance of theory or variable involved

Assessment Method Used: Exam

The question Information:

Number of students 24 **Total Mark** 9 **Result** 72 **%**

Results

The overall performance

Applies appropriate theory to data when prompted to do so, but misinterprets physical significance of theory or variable involved; makes errors in unit conversions