



جامعة المجمعة
Majmaah University

Course Report

College:
Programme
Course :

College of Engineering
Electrical Engineering
Electric Energy Utilization

May 2017



This form compatible with NCAAA Edition

Course Report

Institution :	Majmaah university	Date of CR	20 / 05/ 2017.
College/ Department	.....Engineering /Electrical Engineering.....		

A Course Identification and General Information

1. Course title:	Electric Energy Utilization	Code	EE 480	Section	389	
2. Name of course instructor	Dr. El Manaa Barhoumi	Location	Electrical Engineering Department			
3. Year and semester to which this report applies: 2016/2017- Term 2						
4. Number of students starting the course?	15	Students completing the course?	15			
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 (*)
Introduction	08	08	
Illumination Illumination: types of lamps, illumination schemes, calculation of illumination, requirements of proper lighting.	08	08	
Electric Heating: advantages of electrical heating, heating methods, design of resistance heating element.	08	08	
Electric Welding: advantages of electric welding, welding methods, comparison between AC and DC arc welding, welding control circuits.	08	08	
Electrolytic Processes: laws of electrolysis, process of electro-deposition, factors affecting electro-deposition, manufacturing of chemicals by electrolysis process.	08	08	



Refrigeration and Air Conditioning: principle of air conditioning, refrigeration cycle, eco-friendly refrigerants, electrical circuits used in refrigerator and air-conditioner.	08	08	
Electric Traction: advantages of electric traction, systems of electric traction, types of motors used for electric traction, starting and braking of traction motors	12	4	According to the ministry of higher education, the term has been reduced to 13 weeks

(*) 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
1.0	Knowledge		
1.1	.....	.....	.....
2.0	Cognitive Skills		
2.1	The student will be able to solve problems related to the illumination.	Q1 -Final exam	80%
2.2	The student will be able to design electric heater for specific application	Q2 -Final exam	80%
2.3	The student will be able to identify different welding control circuits.		
2.4	The student will be able to solve problems related to electrolysis.		
2.5	The student will be able to identify the electrical circuits for refrigerators and air-conditioning systems.		
2.6	The student will be able to solve problems related to electric traction.		
3.0	Interpersonal Skills & Responsibility		
3.1	.....	.....	.....
3.2	.....	.....	.....
4.0	Communication, Information Technology, Numerical		



List course learning outcomes		List methods of assessment for each LO	Summary analysis of assessment results for each LO
4.1	.....	.....	.....
4.2	.....	.....	.....
5.0	Psychomotor		
5.1	.....	.....	.....
5.6	.....	.....	.....

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

More examples and problems related to the design of electric heaters and illumination systems are required.

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	
Lecture, free Discussion, Case Studies		Y	None
Slides, Implication Studies		Y	None

C. Results

1. Distribution of Grades

Letter Grade	Number of Students	Student Percentage	Analysis of Distribution of Grades
A+	1	6.66%	This student has excellent level The attendance percentage of this student is 100%.
A	0	0 %	
B+	1	6.66%	This student has a good level
B	2	13.33%	These two students can get better than this result
C+	4	26.66%	
C	4	26.66%	Students can get better than this result



D+	1	6.66%	
D	2	13.33%	Two students need more motivation to get better results
F	0	0%	
Denied Entry	0	0%	.....
In Progress	0	0%	.....
Incomplete	0	0 %	.....
Pass	15	100 %	The most of topics in this course are based on previous courses and basics laws in electrical engineering (such as electrical heating, electrical welding and illumination) are based on Ohm law. The topic electric traction is related to electrical machines courses. The students presented a good ability to understand and solve the problems in this course.
Fail	0	0%	.....
Withdrawn	0	0 %	.....

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

<ul style="list-style-type: none"> • Good results, No special factors 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
2nd Midterm exam was cancelled.	According to the ministry of higher education, the semester has been reduced to 13 weeks

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 final papers are reviewed by independent reviewer from the department who will double check the sum of the total marks	Level of fairness in correction is fairly high
Grades are approved by Head of department and the vice-dean for academic affairs of the Engineering College.	Grades approved by Head of department and the vice-dean for academic

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	
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.....

E. Administrative Issues

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

F Course Evaluation

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

<p>a. List the most important recommendations for improvement and strengths</p> <ul style="list-style-type: none"> • Principal facilities were not available • A lot of home works and quizzes, case study were assigned in this course • Relation of this course with other course was not clear (14%)
<p>b. Response of instructor or course team to this evaluation</p> <ul style="list-style-type: none"> • Text books are available in the library of the college of engineering • All materials (presentations and solved problems) are available on D2L system • The instructor should explain the relation of the course with other courses through different case studies.

2. Other Evaluation :



a. List the most important recommendations for improvement and strengths
None

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
Text book should be updated Proposed text book; Generation and Utilization of Electrical Energy, S. Sivanagaraju and M. Balasubba, New Delhi, India 2010	None	Hard copies of the text book are available in the library of the college of Engineering	UPC is working on the update of the curriculum
Update Course Specifications ,CLO and SLO	UPC is working on the update of the curriculum	The new curriculum will be approved.	UPC is working on the update of the curriculum. The new curriculum will be approved

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

- More activities and homework were proposed
- The method of Problem Based learning was effective.
-
-

3. Action Plan for Next Semester/Year

Actions Recommended for Further Improvement	Intended Action Points (should be measurable)	Start Date	Completion Date	Person Responsible
Update Course Specifications	Course specifications conformed to the course description	10/09/2017	10/12/2017	UPC
Update the CLO and SLO in the course specification.	SLO and CLO updated in the course specification	10/09/2017	10/12/2017	UPC

Course Instructor:

Name: Dr El Manaa Barhoumi

Signature: Date Report Completed: 22/05/2017

Program Coordinator:

Name:

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



عدد المقيمين لـ اوافق مطلقا (1) لـ اوافق (2) اوافق الي حد ما (3) اوافق (4) اوافق بشدة (5)	الاستئلة
15 6.7 0.0 33.3 40.0 20.0	كانت الخطوط الأساسية (بما في ذلك المعلومات والمهارات التي صمم المقرر لتطويرها) واضحة بالنسبة لي .
15 6.7 0.0 26.7 33.3 33.3	كانت متطلبات النجاح في المقرر (بما في ذلك الواجبات التي يتم التقييم بناء عليها ، ومكحات التقييم) واضحة بالنسبة لي .
15 6.7 0.0 33.3 33.3 26.7	كانت مصادر مساعدتي في المقرر (بما في ذلك الساعات المكتبية لعضو هيئة التدريس ، والمراجع) واضحة بالنسبة لي .

عدد المقيمين لـ اوافق مطلقا (1) لـ اوافق (2) اوافق الي حد ما (3) اوافق (4) اوافق بشدة (5)	الاستئلة
15 6.7 0.0 33.3 33.3 26.7	كان تنفيذ المقرر والأشياء التي طلب مني أدائها متسقة مع الخطوط الأساسية للمقرر .
15 6.7 0.0 20.0 46.7 26.7	كان عضو هيئة التدريس ملتزما بإعطاء المقرر بشكل كامل (مثل : بدأ المحاضرات في الوقت المحدد ، تواجد عضو هيئة التدريس بشكل دائم ، الإعداد الجيد للمواد المساعدة في التدريس ، وهكذا) .
15 6.7 0.0 40.0 33.3 20.0	لدى عضو هيئة التدريس الذي يقوم بتقديم هذا المقرر إلمام كامل بمحتوى المقرر .
15 6.7 0.0 26.7 26.7 40.0	كان عضو هيئة التدريس موجودا للمساعدة خلال الساعات المكتبية .
15 6.7 0.0 26.7 33.3 33.3	كان عضو هيئة التدريس متحمسا لما يقوم بتدريسه .
15 6.7 0.0 20.0 46.7 26.7	كان عضو هيئة التدريس مهتما بمدى تقدمي وكان معينا لي .
15 6.7 0.0 26.7 26.7 40.0	كان كل ما يقدم في المقرر حديثا ومفيدا ، (النصوص المقروءة ، التلخيصات ، المراجع ، وما شابهها) .
15 6.7 6.7 26.7 33.3 26.7	كانت المصادر التي احتجتها في هذا المقرر متوافرة كلما أحتاج إليها .
15 6.7 0.0 33.3 26.7 33.3	كان هناك استخدام فعال للتقنية لدعم تعليمي في هذا المقرر .
15 6.7 0.0 26.7 46.7 20.0	وجدت تشجيعا لإلقاء الاستئلة وتطوير أفكار خاصة في هذا المقرر .
15 6.7 0.0 26.7 26.7 40.0	شجعت في هذا المقرر على تقديم أفضل ما عندي .
15 6.7 0.0 13.3 46.7 33.3	ساعدت الأشياء التي طلبت مني في هذا المقرر (الأنشطة الصفية ، المعامل ، وهكذا) في تطوير معرفتي ومهاراتي التي يهدف المقرر لتعليمها .
15 6.7 6.7 20.0 26.7 40.0	كانت كمية العمل في هذا المقرر متناسبة مع عدد الساعات المعتمدة المخصصة للمقرر .
15 6.7 0.0 26.7 33.3 33.3	قدمت لي درجات الواجبات والاختبارات في هذا المقرر خلال وقت معقول .
15 6.7 0.0 13.3 46.7 33.3	كان تصحيح واجباتي واختباراتي عادلا ومناسبا .
15 6.7 6.7 13.3 53.3 20.0	وضحت لي الصلة بين هذا المقرر والقرارات الأخرى بالبرنامج (القسم) .

عدد المقيمين لـ اوافق مطلقا (1) لـ اوافق (2) اوافق الي حد ما (3) اوافق (4) اوافق بشدة (5)	الاستئلة
15 6.7 0.0 26.7 33.3 33.3	ما تعلمته في هذا المقرر مهم وسيفيدني مستقبلا .
15 6.7 6.7 26.7 20.0 40.0	ساعدني هذا المقرر على تحسين قدرتي على التفكير وحل المشكلات بدلا من حفظ المعلومات فقط .
15 6.7 0.0 26.7 40.0 26.7	ساعدني هذا المقرر على تحسين مهاراتي في العمل على شكل فريق .
15 6.7 0.0 33.3 33.3 26.7	ساعدني هذا المقرر على تحسين قدرتي على الاتصال بفاعلية .

عدد المقيمين لـ اوافق مطلقا (1) لـ اوافق (2) اوافق الي حد ما (3) اوافق (4) اوافق بشدة (5)	الاستئلة
15 6.7 6.7 26.7 26.7 33.3	أشعر بالرضا بشكل عام على مستوى جودة هذا المقرر .

Academic Year:2016_2017Semester:Second (Spring)

Course Title: Electric Energy Utilization

The course Section:1

The instructor name:El Manaa Barhoumi

The learning Outcome: (c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability

The Course Learning Outcome: CLO1

The unit Learning Outcome: ULO1

The key Performance Indicator: Developing a design strategy

The benchmark: 75

Bloom's Level: Summarizing

Weight (%): 15

The assessment Method: Written examination

Number of Students: 15

Question Number: 2

Question Mark: 8

The Exam Type: Final Exam

The evaluation Result: 80

Unsatisfactory: 2

Developing: 5

Satisfactory: 8

Your result is above the benchmark. No actions needed



Academic Year:2016_2017Semester:Second (Spring)

Course Title: Electric Energy Utilization

The course Section:1

The instructor name:El Manaa Barhoumi

The learning Outcome: (e) an ability to identify, formulate, and solve engineering problems

The Course Learning Outcome: CLO1

The unit Learning Outcome: ULO1

The key Performance Indicator: Solutions creativity alternatives

The benchmark: 75

Bloom's Level: Summarizing

Weight (%): 15

The assessment Method: Written examination

Number of Students: 15

Question Number: 1

Question Mark: 6

The Exam Type: Final Exam

The evaluation Result: 80

Unsatisfactory: 2

Developing: 5

Satisfactory: 8

Your result is above the benchmark. No actions needed

