جامعة المجمعة
Majmaah University

Course Report

College: **Engineering**
Programme **Electrical**
Course : **Microprocessor EE 360**

Muharram 1437 H

Course Report

Institution : Majmaah University Date of CR 12/ 5/ 2017.	
College/ Department Engineering / Electrical Engineering	

A Course Identification and General Information

1. Course title: Microprocessor Code EE 360 Section 436	
2. Name of course instructor Dr. Abdel-Rahman Location : Yahya Campus	
3. Year and semester to which this report applies: 37/38 Second Semester	
4. Number of students starting the course? 14 Students completing the course? 9	
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 (*)
Basic microprocessor architecture	8	8	None
Timing and signaling for interface applications and control	8	8	None
Instruction execution cycles and sequencing	8	8	None
Interrupts, memory systems design and organization	8	8	None
Basic peripheral interfacing and interface design	8	8	None
Software topics including assembly language programming	8	8	None
Interrupt handlers, fast arithmetic algorithms and hardware description languages (HDL).	12	12	Shorting the semester's weeks by two and half

(*) 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
Advanced microprocessors architectures and features	Can effect partially learning outcome e	None
None	…………………………	…………………………
None	…………………………	…………………………
None	…………………………	…………………………

3. Course learning outcome assessment.

List course learning outcomes By the end of the course, the student will be able to:		List methods of assessment for each LO	Summary analysis of assessment results for each LO
a	*demonstrate* the Basic microprocessor architecture and its main components	Lecture, small group work, , research activities, lab demonstrations, projects and individual presentation	47.6% The performance of students was low
	apply the knowledge of Timing and signaling for interface applications and control		
e	*differentiate* between pipelining and non-pipelining microprocessor using Instruction execution cycles and sequencing	Lecture, research activities, lab demonstrations, projects, case studies, memorization and individual presentation	47.6.7% The performance of students was low
	solve problems related to Interrupts, memory systems design and organization		
c	*structure* Basic peripheral interfacing and interface design	Lecture, small group work, , research activities, lab demonstrations, projects and individual presentation	47.6% The performance of students was low
	construct Software topics including assembly language programming		

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

SLO evaluation program is used to evaluate the assigned SLO (a, e and c) for the course. The results of evaluation are included in the course file.
- The assigned teaching strategies are more than enough.
- Using the case study strategy to improve the practical implementation of Microprocessor.

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		X	…………….…………………………….
research activities		X	…………….…………………………….
projects			Not Used
case studies	X	X	There was no time for such strategy method, will be used next semester
memorization and individual presentation		X	

C. Results
1. Distribution of Grades

Letter Grade	Number of Students	Student Percentage	Analysis of Distribution of Grades
A+	0	5.5 %	
A	1	11 %	
B+	0	5.5 %	
B	0	5.5 %	The results are below the normal distribution. Results are calculated based on the number of students that are attended the final exam (14 students). The pass percentage 64%. Recommendations and actions are written below.
C+	2	5.5 %	
C	1	11 %	
D+	2	11 %	
D	3	28 %	
F	5	17 %	

Denied Entry	0	0 %	Results are calculated based on the number of students that are registered in the course (14 students). The pass percentage 64%. Recommendations and actions are written below.
In Progress	14	100 %	
Incomplete	0	0 %	
Pass	9	64 %	
Fail	5	36 %	
Withdrawn	0	0 %	

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

The results are below the normal distribution and the factor is that Most of students with low GPA and low performance and repeated this course more than one time.

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

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

Variation	Reason
Discussion and presentation	The micro project is cancelled due to the insufficient time
None	………………………………………………
None	………………………………………………

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

Variation	Reason
None	………………………………………………
None	………………………………………………
None	………………………………………………

4. Student Grade Achievement Verification:

Method(s) of Verification	Conclusion
Internal grades verification reviewer	Reviewed by Dr. Ahmad Galal
Grades approved by Head of department and the dean of the EC.	Approved
D2L is used for verifications of sum.	verified

D. Resources and Facilities

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

The classroom was not equipped with operated smart board.	The learning process was not completely effective.

E. Administrative Issues

Organizational or administrative difficulties encountered (if any)	Consequences of any difficulties experienced for student learning in the course
None	…………………………………………
None	…………………………………………
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
- To use more technology to support students teaching
- The overall evaluation of the course is 69.5%

b. Response of instructor or course team to this evaluation
Although, using D2L for the assessment process of using quizzes and homework deliver were effective and simple, more attention will be given to teaching methods using this technology especially online- lectures.

2. Other Evaluation:
Exam review report for second semester (2016/2017) (None)

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
a) Changing the textbook	The UPC updates the EE curriculum and considered changes in the new curriculum	The new textbook will be used next semester	…………………

	More assembly language examples discussed I tutorials	Students performance increased related to outcome e	……………………
b) More lectures related to practical topics			

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

- More practical concepts related to Assembly language to improve the SLO (k)
- Assigned more lectures to explain assembly language practically

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 lectures related to refreshment topics about Logic designs concepts	SLO (a)	25/9/2017	15/1/2017	Instructor
b) Decreasing the theoretical part and increasing the implementation aspects (microcontrollers ARDUINO)	SLO (c,e)	25/9/2017	15/1/2017	Instructor

Course Instructor:

Name: Dr. Abdel-Rahman Al-Qawasmi
Signature: ....   Date Report Completed: 12./5./2017

Program Coordinator:

Name: Dr. Abdullah Almuhaisen
Signature: ....   Date Received :   ....../…../2017

Final Course evaluation results:

التقييم

المقر : المجمعة - ذكور	الشعبة : 436
الدرجة : البكالوريوس	رمز المقرر : 360 كهر
النشاط : محاضرة	اسم المقرر : معالجات صغرى

الفصل
الثاني
37/38

فصل التقييم :

اسئلة خاصة ببداية المقرر

عدد المقيمين	لا اوافق مطلقا (1)	لا اوافق (2)	اوافق الى حد ما (3)	أوافق (4)	أوافق بشدة (5)	الأسئلة
11	9.1	18.2	27.3	9.1	36.4	كانت الخطوط الأساسية (بما في ذلك المعلومات والمهارات التي صمم المقرر لتطويرها) واضحة بالنسبة لي .
11	9.1	9.1	36.4	9.1	36.4	كانت متطلبات النجاح في المقرر (بما في ذلك الواجبات التي يتم التقييم بناء عليها ، ومحكات التقييم) واضحة بالنسبة لي .
11	9.1	9.1	36.4	18.2	27.3	كانت مصادر مساعدتي في المقرر (بما في ذلك الساعات المكتبية لعضو هيئة التدريس ، والمراجع) واضحة بالنسبة لي .

أسئلة خاصة بما حدث خلال المقرر

عدد المقيمين	لا اوافق مطلقا (1)	لا اوافق (2)	اوافق الى حد ما (3)	أوافق (4)	أوافق بشدة (5)	الأسئلة
11	9.1	18.2	18.2	9.1	45.5	كان تنفيذ المقرر والأشياء التي طلب مني أداؤها متسقة مع الخطوط الأساسية للمقرر .
11	9.1	9.1	27.3	27.3	27.3	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) .
11	9.1	9.1	27.3	18.2	36.4	لدى عضو هيئة التدريس الذي يقوم بتقديم هذا المقرر إلمام كامل بمحتوى المقرر .
11	9.1	0.0	45.5	18.2	27.3	كان عضو هيئة التدريس موجودا للمساعدة خلال الساعات المكتبية .
11	9.1	9.1	27.3	18.2	36.4	كان عضو هيئة التدريس متحمسا لما يقوم بتدريسه .
11	9.1	9.1	36.4	9.1	36.4	كان عضو هيئة التدريس مهتما بمدى تقدمي وكان معينا لي .
11	9.1	18.2	27.3	9.1	36.4	كان كل ما يقدم في المقرر حديثا ومفيدا ، (النصوص المقروءة ، التلخيصات ، المراجع ، وما شابهها) .
11	9.1	9.1	36.4	9.1	36.4	كانت المصادر التي احتجتها في هذا المقرر متوافرة كلما أحتاج إليها .
11	18.2	9.1	27.3	18.2	27.3	كان هناك استخدام فعال للتقنية لدعم تعليمي في هذا المقرر .
11	9.1	9.1	36.4	18.2	27.3	وجدت تشجيعا لإلقاء الأسئلة وتطوير أفكاري الخاصة في هذا المقرر .
11	9.1	18.2	27.3	9.1	36.4	شجعت في هذا المقرر على تقديم أفضل ما عندي .
11	9.1	9.1	36.4	9.1	36.4	ساعدت الأشياء التي طلبت مني في هذا المقرر (الأنشطة الصفية ، المعامل ، وهكذا) في تطوير معرفتي ومهاراتي التي يهدف المقرر لتعليمها .
11	9.1	18.2	27.3	18.2	27.3	كانت كمية العمل في هذا المقرر متناسبة مع عدد الساعات المعتمدة للمقرر .
11	0.0	27.3	27.3	18.2	27.3	قدمت لي درجات الواجبات والاختبارات في هذا المقرر خلال وقت معقول .

| 36.4 | 18.2 | 27.3 | 18.2 | 0.0 | 11 | كان تصحيح واجباتي واختباراتي عادلا ومناسبا . |
| 36.4 | 9.1 | 27.3 | 27.3 | 0.0 | 11 | وضحت لي الصلة بين هذا المقرر والمقررات الأخرى بالبرنامج (القسم) . |

تقويم المقرر

عدد المقيمين	لا اوافق مطلقا (1)	لا اوافق (2)	اوافق الى حد ما (3)	أوافق (4)	أوافق بشدة (5)	الأسئلة
36.4	18.2	36.4	9.1	0.0	11	ما تعلمته في هذا المقرر مهم وسيفيدني مستقبلا .
27.3	18.2	36.4	18.2	0.0	11	ساعدني هذا المقرر على تحسين قدرتي على التفكير وحل المشكلات بدلا من حفظ المعلومات فقط .
36.4	18.2	27.3	18.2	0.0	11	ساعدني هذا المقرر على تحسين مهاراتي في العمل على شكل فريق .
27.3	18.2	36.4	18.2	0.0	11	ساعدني هذا المقرر على تحسين قدرتي على الاتصال بفاعلية .

التقويم العام

عدد المقيمين	لا اوافق مطلقا (1)	لا اوافق (2)	اوافق الى حد ما (3)	أوافق (4)	أوافق بشدة (5)	الأسئلة
27.3	27.3	45.5	0.0	0.0	11	أشعر بالرضا بشكل عام على مستوى جودة هذا المقرر .

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