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| --- | --- |
| **College:** | **College of Engineering** |
| **Programme:** | **Electrical Engineering** |
| **Course:** | **Microprocessor Lab.**  **EE 361** |

**Course Report**

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| --- | --- | --- | --- | --- |
| Institution : | Majmaah University | | Date of CR | 22/01/2017 |
| College/ Department | | Engineering /Electrical Engineering | | |

**A. Course Identification and General Information**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course title: | | Microprocessor Lab | | | | | Code | | | EE 361 | | Section | | | 119 | | | |
| 2. Name of course instructor | | | | Dr. Abdelrehman AlQawasmi  Engr. Muhammad Humran Khan | | | | | | | | | Location | | | | AD 008 | |
| 3. Year and semester to which this report applies: | | | | | | | | | | 2016/2017 First Semester | | | | | | | | |
| 4. Number of students starting the course? | | | | | | 16 | | Students completing the course? | | | | | | | | 16 | |  |
| 5. Course components: | | | | | | | | | | | | | | | | | | |
|  | Lecture | | Tutorial | | Laboratory/  Studio | | | | Practical | | Other | | | **Total** | | | | |
| **Contact**  **Hours** | 0 | | 0 | | 30 | | | | 0 | | 0 | | | 30 | | | | |
| **Credit** | 0 | | 0 | | 1 | | | | 0 | | 0 | | | 1 | | | | |

**B. Course Delivery:**

**1. Coverage of Planned Program**

|  |  |  |  |
| --- | --- | --- | --- |
| **Topics Covered** | **Planned** Contact Hours | **Actual** Contact Hours | **Reason for Variations (\*)** |
| Introduction to lab components and 8086 tool kit | 2 | 2 | No Variation |
| Function of Microprocessors | 2 | 2 | No Variation |
| Interfacing | 2 | 2 | No Variation |
| Memory Organization | 4 | 4 | No Variation |
| Machine Cycles | 2 | 2 | No Variation |
| LED Experiment | 2 | 2 | No Variation |
| Display on 8086 microprocessor kit | 4 | 4 | No Variation |
| Step motor | 2 | 2 | No Variation |
| Integration of devices with 8086 microprocessor kit | 4 | 4 | No Variation |
| Assembly Language Introduction | 2 | 2 | No Variation |
| Emulator 8086 and programs | 4 | 4 | No Variation |

( \* ) 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 |
| None | NA | N/A |
|  |  |  |
|  |  |  |
|  |  |  |

**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** | use the lab equipment | Standardized Exam | 83 % |
| **2.2** | categories the interfacing | Standardized Exam | 91 % |
| **2.3** | use the machine cycles |  |  |
| **2.4** | conduct the experiments on 8086 Microprocessor Tool Kit | Standardized Exam |  |
| **2.5** | Illustrate the functions of Microprocessor |  |  |
| **2.6** | identify the memory organization |  |  |
| **2.7** | integrate the devices with 8086 Microprocessor Kit |  |  |
| **3.0** | **Interpersonal Skills & Responsibility** | | |
| **3.1** |  |  |  |
| **3.2** |  |  |  |
| **3.3** |  |  |  |
| **3.4** |  |  |  |
| **3.5** |  |  |  |
| **3.6** |  |  |  |
| **4.0** | **Communication, Information Technology, Numerical** | | |
| **4.1** | develop the Assembly Language Programs | Standardized Exam | 83 % |
| **4.2** |  |  |  |
| **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? | | Difficulties Experienced (if any) in Using the Strategy and Suggested Action to Deal with Those Difficulties. |
| No | Yes |
| Lecture, small group work, research  activities, lab demonstrations, projects  and individual presentation |  | X |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**C. Results**

**1. Distribution of Grades**

|  |  |  |  |
| --- | --- | --- | --- |
| Letter  Grade | Number of  Students | Student  Percentage | Analysis of Distribution of Grades |
| **A+** | 0 | 0 % |  |
| **A** | 3 | 18.75 % | Students have a good normalize distribution with 100 % result. |
| **B+** | 5 | 31.25 % |
| **B** | 0 | 0 % |
| **C+** | 3 | 18.75 % |
| **C** | 3 | 18.75 % |  |
| **D+** | 1 | 6.25% |  |
| **D** | 1 | 6.25 % |  |
| **F** | 0 | 0 % |  |
| Denied  Entry | 0 | 0 % |  |
| In Progress | 0 | 0 % |  |
| Incomplete | 0 | 0 % |  |
| Pass | 16 | 100 % |  |
| Fail | 0 | 0 % |  |
| Withdrawn | 0 | 0 % |  |

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

|  |
| --- |
| * None |

**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 |
| Internal grades verification reviewer | Reviewed |
| Grades approved by Head of department and the dean of the College of Engineering | Approved |
| Microsoft Excel 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 |
| No | No |
|  |  |
|  |  |

**E. Administrative Issues**

|  |  |
| --- | --- |
| Organizational or administrative difficulties encountered (if any) | Consequences of any difficulties experienced for student learning in the course |
| No | No |
|  |  |
|  |  |

**F. Course Evaluation**

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

|  |
| --- |
| a. List the most important recommendations for improvement and strengths   1. Student Survey |
| 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 |
| 1. There was no recommendation from pervious course report. |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

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

|  |
| --- |
| * A new setup is underway with new computers so now each student will have more resources to perform the lab experiments. * ……………………………………………………………………………………………… * ……………………………………………………………………………………………… * ……………………………………………………………………………………………… |

**3. Action Plan for Next Semester/Year**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Actions Recommended for Further Improvement | Intended Action Points  (should be measurable) | Start  Date | Completion  Date | Person Responsible |
| 1. Explain with more detail to students: The course objectives, outcomes, assessment methods, importance, link to other courses | Explain the course details to students. | 9/ 10/ 2016 | 5/ 1/ 2017 | Instructor |
| 1. Encourage the students by asking more questions. | Have a discussion time in the class. | 9/ 10/ 2016 | 5/ 1/ 2017 | Instructor |
| 1. Upgrade university library | Buy textbook and reference books for Library. | 9/ 10/ 2016 | 5/ 1/ 2017 | UPC / QC |
|  |  |  |  |  |
|  |  |  |  |  |

**Course Instructor:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name: | Dr. Abdelrehman AlQawasmi & Engr. Muhammad Humran Khan | | |
| Signature: |  | Date Report Completed: | 22-1-2017 |

**Program Coordinator:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name: Dr. | Abdullah Almuhaisen | | |
| Signature: |  | Date Received : |  |

**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