|  |  |
| --- | --- |
| **College :** | **Engineering** |
| **Programme** | **Electrical Engineering** |
| **Course :** | **Electric Circuit Lab** |

**Course Report**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Institution : | Al Majmaah University | | Date of CR | 10 / 5 / 2017 |
| College/ Department | | Engineering/ Electrical Engineering | | |

**A Course Identification and General Information**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course title: | | Electric Circuit Lab | | | | | Code: | | | EE 205 | | | Section | | | 409 | | |
| 2. Name of course instructor | | | | Talha Moaiz yazdani | | | | | | | Location : | | | College of Engineering | | | | |
| 3. Year and semester to which this report applies: | | | | | | | | | | 2016/2017 2nd Semester | | | | | | | | |
| 4. Number of students starting the course? | | | | | | 6 | | Students completing the course? | | | | | | | | | 5 |  |
| 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 (\*)** |
| Introductory to lab equipment's and basic components | 1 | 1 | ………………………………….. |
| Assemble of simple circuits | 1 | 1 | ………………………………….. |
| Ohms law, Series and Parallel Connection of Resistors | 2 | 2 | ………………………………….. |
| VDR on No-Load operation, VDR under Load | 1 | 1 | ………………………………….. |
| Series and parallel connection of Battery | 1 | 1 | ………………………………….. |
| Determining the Internal Resistance of batteries connected in series and Parallel | 2 | 2 | ………………………………….. |
| Introduction to AC Circuits using the Oscilloscope | 1.5 | 1.5 | ………………………………….. |
| Introduction to AC Circuits using the Function Generator | 1.5 | 1.5 |  |
| Power Factor improvement | 1 | 1 |  |
| Introduction to Three Phase circuits. | 2 | 0 | Due to instructions by the ministry of education |
| Revision | 1 | 0 |

( \* ) 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 |
| Introduction to Three Phase circuits | None | Will be given in EE 271 |

**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** | | |
| **b** | measure the properties main electrical components, such as resistance, capacitance, inductance | Standardized exams | 87% |
| Evaluate the electric circuits characteristics. | Standardized exams |
|  | apply the concepts and analytical principles developed in EE 101 |  |
|  | **Interpersonal Skills & Responsibility** | | |
|  | **.....................................................................** | .................. | .................. |
|  | **Communication, Information Technology, Numerical** | | |
| **k** |  |  |  |
| employ the main electric instruments, such as multimeter, oscilloscope | Standardized exams | 87% |
| operate effectively to communicate through weekly written reports and lab notebooks | Class Activity | 93% |
|  | **Psychomotor** | | |
|  | **.....................................................................** | .................. | .................. |

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

|  |
| --- |
| The assigned teaching strategies are more than enough. |

**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 | 16.6% | Distribution of grades with linear trend line is shown below. one student missed the final exam |
| **A** | 1 | 16.6% |
| **B+** | 1 | 16.6% |
| **B** | 0 | 0% |
| **C+** | 1 | 16.6% |
| **C** | 0 | 0% |
| **D+** | 0 | 0% |
| **D** | 1 | 16.6% |
| **F** | 1 | 16.6% |
| Denied  Entry | 0 | 0 % | ………………………………………………………. |
| In Progress | 0 | 0% | ……………………………………………………….. |
| Incomplete | 0. | 0 % | ……………………………………………………….. |
| Pass | 5 | 83.3% | ……………………………………………………….. |
| Fail | 1 | 16.6% | ……………………………………………………….. |
| Withdrawn | 0 | 0 % | ……………………………………………………….. |

**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 |
| Cancel Second Mid Exam | Instruction from MOHE Saudi Arabia |

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  Satisfactory. No recommendation needed |
| 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 |
| Make indirect assessments | Make 8% of indirect assessment during the experiments | ……………… | ……………… |

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

|  |
| --- |
| ……………………………………………………………………………… |

**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. Update experiment topics | Approval of UPC | end of second semester 2016/2017 | Beginning of first semester 2017/2018 | Course  Instructor |

**Course Instructor:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name: | Talha Moaiz Yazdani | | |
| Signature: | ............................. | Date Report Completed: | 10 /5 / 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