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| **College :** | **Engineering** |
| **Programme** | **Electrical Engineering** |
| **Course :** | **Fundamental of Electric Circuit** |

**Course Report**

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| --- | --- | --- | --- | --- |
| Institution : | Al Majmaah University | | Date of CR | 20 / 5 / 2017 |
| College/ Department | | Engineering/ Electrical Engineering | | |

**A Course Identification and General Information**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course title: | | Fundamental of Electric Circuits. | | | | | Code | | | EE 101. | | | Section | | | 533 & 369 | | |
| 2. Name of course instructor | | | | Dr Yazeed Qasaymeh | | | | | | | Location : | | | College of Engineering | | | | |
| 3. Year and semester to which this report applies: | | | | | | | | | | 2016/2017 Second Semester | | | | | | | | |
| 4. Number of students starting the course? | | | | | | 53 | | Students completing the course? | | | | | | | | | 45 |  |
| 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 circuit elements and concepts | 8 | 8 | ………………………………….. |
| Basic laws of circuit theory: Ohm's law, Kirchoff's law | 12 | 12 | ………………………………….. |
| Techniques of circuit analysis: Nodal and mesh analysis. | 12 | 12 | ………………………………….. |
| Circuit theorems: superposition principle, Thevenin theorems | 12 | 4 | Based on the instructions of ministry of higher education the semester was cut shorted. |
| Circuit theorems: Norton theorems; maximum power transfer theorem; | 8 | 4 | Based on the instructions of ministry of higher education the semester was cut shorted.. |
| Electric circuit phasors and vectors, Analyzing electric circuit active and reactive powers. | 8 | 4 | Based on the instructions of ministry of higher education the semester was cut shorted. |

( \* ) 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 |  |  |

**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** | | |
| **c** | Identify the basic circuits elements | |  | | --- | | Standardized exams | | 73.33%  [Final exam Q1] |
| Relate the basic circuits laws |
| Adapt techniques of circuit analysis |
| Construct an equivalent circuit using Thevenin and Norton |
| Relate phasors and vectors in order to be used in analyzing A.C circuits |
|  | **Interpersonal Skills & Responsibility** | | |
|  | **.....................................................................** | .................. | .................. |
|  | **Communication, Information Technology, Numerical** | | |
| **a** | Perform the basic circuit theorems as superposition and maximum power transfer | Standardized exams | 53%   |  | | --- | | [Final exam Q6-b] | |
|  | **Psychomotor** | | |
|  | **.....................................................................** | .................. | .................. |

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

|  |
| --- |
| The text and reference books problems used as self-homework’s related to each topic of the course. |

**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 | None |

**C. Results**

**1. Distribution of Grades**

|  |  |  |  |
| --- | --- | --- | --- |
| Letter  Grade | Number of  Students | Student  Percentage | Analysis of Distribution of Grades |
| **A+** | 1 | 2.32% | One student gets A+ grade |
| **A** | 1 | 2.32% | One student gets A+ grade |
| **B+** | 4 | 9.3% | Four students get B+ grade |
| **B** | 5 | 11.62% | Five students get B grade  One student was close to B+ grade |
| **C+** | 3 | 6.97% | Three students get C+ grade |
| **C** | 4 | 9.3% | Four students get C grade |
| **D+** | 10 | 23.25% | Ten students get D+ grade.  One student was close to C grade |
| **D** | 6 | 13.95% | Six students get D grade. |
| **F** | 11 | 25.58% | Eleven students failed the course |
| Denied  Entry | 2 | 4.65% | Two students were banned |
| In Progress | 0 | 0% | ……………………………………………………….. |
| Incomplete | 0 | 0% | ……………………………………………………….. |
| Pass | 32 | 74.4% | ……………………………………………………….. |
| Fail | 11 | 25.58% | ……………………………………………………….. |
| Withdrawn | 6 | 13.95% | Six students withdrawn the course |

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

|  |
| --- |
| -Two students didn’t attend the final exam.  -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 |
| Midterm 2 was not given | According to the direction from ministry of education, the semester was cut short. |

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

|  |  |
| --- | --- |
| Variation | Reason |
| Midterm 2 was not given | According to the direction from ministry of education, the semester was cut short. |

**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   * The course evaluation survey shows that the students are fairly agree with course delivery   and contents |
| b. Response of instructor or course team to this evaluation   * The course instructor is glad that the students are agreed with course delivery.. |

**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. More exercises from the course reference book | exercises from the reference book were solved during class hours and given as assignments | Student improved their skills in getting answers and perform accurate calculations  compared the beginning of the semester |  |
| 1. Student participation | The students were more involved during the theory explanation and solving the examples. | Student improved their skills in getting answers and perform accurate calculations compared to the semester beginning |  |
| 1. Micro-projects | The students were asked to design and present a prototyped micro-project that related the theory into practice | The students were able to relate the theory to practice during their presentation of the microproject |  |

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

|  |
| --- |
| * Force the students to use both the textbook and the reference book. * Previous semesters exam model answers were provided to the students using D2L. |

**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. More exercise and self-homework. | More time in exercise and assignments will be given to students | Beginning of first semester 2017/2018 | End of first semester 2017/2018 | Course Instructor |
| 1. Student participation. | Ask student to complete solving some problems to the end during the class | Beginning of first semester 2017/2018 | End of first semester 2017/2018 | Course  Instructor |
| 1. Micro-projects. | The students will be asked for micro-projects for the purpose of relating theory to practice | Beginning of first semester 2017/2018 | End of first semester 2017/2018 | Course  Instructor |

**Course Instructor:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name: | Dr Yazeed Qasaymeh | | |
| Signature: | ............................. | Date Report Completed: | 20/ 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