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| **College :** | **College of Engineering** |
| **Programme** | **Electrical Engineering** |
| **Course :** | **479** |

**Course Report**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Institution : | Majmaah University | | Date of CR | 5/2/2017. |
| College/ Department | | Engineering College/ Electrical Engineering | | |

**A Course Identification and General Information**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course title: | | Protection and HV Lab | | | | | Code | | | 479 | | | Section | | | 154 | | |
| 2. Name of course instructor | | | | Dr.Praveen/Mohammad Abdul Baseer | | | | | | | Location : | | | Complex Building | | | | |
| 3. Year and semester to which this report applies: | | | | | | | | | | 2016-2017/ I-Semester | | | | | | | | |
| 4. Number of students starting the course? | | | | | | 14 | | Students completing the course? | | | | | | | | | 14 |  |
| 5. Course components: | | | | | | | | | | | | | | | | | | |
|  | Lecture | | Tutorial | | Laboratory/  Studio | | | | Practical | | | Other | | | **Total** | | | |
| **Contact**  **Hours** | xx | | xx | | 16 | | | | xx | | | xx | | | **32** | | | |
| **Credit** | xx | | xx | | 1 | | | | xx | | | xx | | | **1** | | | |

**B- Course Delivery:**

**1. Coverage of Planned Program**

|  |  |  |  |
| --- | --- | --- | --- |
| **Topics Covered** | **Planned** Contact Hours | **Actual** Contact Hours | **Reason for Variations (\*)** |
| Characteristics of different protective relays | 2 | 2 | N/A |
| Co-ordination of protective relays | 2 | 2 | N/A |
| To determine the relay testing | 2 | 2 | N/A |
| Equivalent circuit of transformers | 2 | 2 | N/A |
| Three-phase connections and harmonic problems. | 2 | 2 | N/A |
| Equivalent circuit of three-phase and single-phase induction motors. | 2 | 2 | N/A |
| To determine the Characteristics of Under-voltage relay. | 2 | 2 | N/A |
| To determine the Characteristics of Under-current relay. | 2 | 2 | N/A |
|  |  |  |  |
|  |  |  |  |

( \* ) 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 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | 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** |  |  |  |
| **b** | **Cognitive Skills** | | |
| **1** | The student will be able to determine the characteristics of different protective relays. | Standardized Exams | I selected Q. No 4 & 5 from Mid-Exam-I  0%- Unsatisfactory  100%-Developing  0%- Satisfactory  Overall result 67% |
| **2** | The student will be able to identify the coordination of protective relays. | Standardized Exams | I selected Q. No 4 & 5 from Mid-Exam-I  0%- Unsatisfactory  100%-Developing  0%- Satisfactory  Overall result 67% |
| **3** | The student will be able to conduct relay testing experiments. | Standardized Exams | I selected Q.No 1 from Final Exam  100%- unsatisfactory  0%-Developing  0%- Satisfactory  Overall result 33% |
| **4** | The student will be able to conduct breakdown experiment of a solid insulator. |  |  |
| **5** | The student will be able to conduct breakdown experiment of a liquid insulator. |  |  |
| **6** | The student will be able to conduct breakdown experiment of a gas insulating medium. |  |  |
| **7** | The student will be able to conduct experiment of corona phenomena |  |  |
| **3.0** | **Interpersonal Skills & Responsibility** | | |
| **3.1** |  |  |  |
| **3.2** |  |  |  |
| **3.3** |  |  |  |
| **3.4** |  |  |  |
| **3.5** |  |  |  |
| **3.6** |  |  |  |
| **k** | **Communication, Information Technology, Numerical** | | |
| **1** | The student will be able to determine the characteristics of different protective relays. | Exams | I selected Q. No 4 from Mid-II  0%- Unsatisfactory  0%-Developing  100%- Satisfactory  Overall result 100% |
| **2** | The student will be able to identify the coordination of protective relays. |  | I selected Q. No 4 from Final Exam  0%- Unsatisfactory  0%-Developing  100%- Satisfactory  Overall result 100% |
| **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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| --- |
| I recommend to do some experiment on High voltage side. ………………………………………………………………………………………………………….………………………………………………………………………………………………………….………………………………………………………………………………………………………….…………………………………………………………………………………………………………. |

**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 |
| Acquired and applied fundamental principles of science and engineering in this course. |  | Yes | ……………..…………………………. |
| Acquisition of technical competence in specialized areas of engineering discipline. |  | Yes | ……………..…………………………. |
| Different Experiments can be done by the students for different components |  | Yes | ……………..…………………………. |
| Practical knowledge has given to the students by viewing the construction Synchronous machines. |  | Yes | ……………..…………………………. |
|  |  |  |  |

**C. Results**

**1. Distribution of Grades**

|  |  |  |  |
| --- | --- | --- | --- |
| Letter  Grade | Number of  Students | Student  Percentage | Analysis of Distribution of Grades |
| **A+** | 0 | 0 % |  |
| **A** | 0 | 0 % |  |
| **B+** | 2 | 14.28 % | One of the students was near to A Grade; during implementing a formula he did a mistake. |
| **B** | 3 | 21.42 % | Two of the students were close to B+ Grade, but they did a mistake during calculation. |
| **C+** | 7 | 50 % | Three of the students were close to B Grade, but they did a mistake during circuit connection. |
| **C** | 1 | 7.14 % | The students have missed to write a formula. |
| **D+** | 1 | 7.14 % |  |
| **D** | 0 | 0 % |  |
| **F** | 0 | 0 % |  |
| Denied  Entry | 0 | 0 % |  |
| In Progress | 0 | 0 % |  |
| Incomplete | 0 | 0 % |  |
| Pass | 14 | 100 % |  |
| Fail | 0 | 0 % |  |
| Withdrawn | 0 | 0 % |  |

**2. Analyze special factors (if any) 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 |
| All the exams are scheduled on time in the same week. | Schedule on same week, so there is no variations in assessment. |
|  |  |
|  |  |

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

|  |  |
| --- | --- |
| Variation | Reason |
| N/A | N/A |
| N/A | N/A |
| N/A | N/A |

**4. Student Grade Achievement Verification:**

|  |  |
| --- | --- |
| Method(s) of Verification | Conclusion |
| The final exam papers are reviewed by other faculty member from the same department. | It was fair during evaluation, which improves the quality. |
|  |  |
|  |  |

**D. Resources and Facilities**

|  |  |
| --- | --- |
| Difficulties in access to resources  or facilities (if any) | Consequences of any difficulties experienced for student learning in the course |
| In this lab the accommodation is only for 10 students, if more than 10 students will register then it is difficult to manage it. | The group of students will work on same experiment due to lack of enough space in room. |
| In this lab the accommodation is only for 10 students, if more than 10 students will register then it is difficult to manage it. | The group of students will work on same experiment due to lack of enough space in room. |
| …………………………………………… | …………………………………………… |

**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 student’s evaluation survey aggregate for this course is above 3 out of 5 points. |
| b. Response of instructor or course team to this evaluation   * There is no recommendation for this course. |

**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. Learning outcome (a, c, e) is recommended to removing from this course. | Done | Result improved | Grades percentage result has improved (70% to 100%). Ref CR for II- SEM Sec 195. |
| 1. Learning outcome (k) will be recommended to add this course | Done | Result improved | Grades percentage result has improved (70% to 100%). Ref CR for II- SEM Sec 195.. |
|  |  |  |  |
|  |  |  |  |

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

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| --- |
| * Book title “Fault Management and HVDC System Protection” by John Wiley and sons * ……………………………………………………………………………………………… * ……………………………………………………………………………………………… * ……………………………………………………………………………………………… |

**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. To follow-up the students those who have not finished all the experiments in the lab. | If the student will not complete all the experiments in the lab then it will effect on result. | 5/2/2017 | 2/6/2107 | Supervisor |
| 1. I recommend to do some experiment on High voltage side. | Doing more experiments in lab will make practice to gain the practical knowledge to the students. | 5/2/2017 | 2/6/2107 | Supervisor |
| 1. ………………………… | ………………………… | …/…/1437 H | …/…/1437 H | ……..… |
| 1. ………………………… | ………………………… | …/…/1437 H | …/…/1437 H | ……..… |
| 1. ………………………… | ………………………… | …/…/1437 H | …/…/1437 H | ……..… |

**Course Instructor:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name: | Dr.Praveen/Mohammad Abdul Baseer | | |
| Signature: |  | Date Report Completed: | 5/2/2017. |

**Program Coordinator:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name: | Dr. Abdullah Almuhaisen | | |
| 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













