|  |  |
| --- | --- |
| **College:** | **College of Engineering** |
| **Programme:** | **Electrical Engineering** |
| **Course:** | **Signals and Systems Analysis EE 221** |

**Course Report**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Institution: |  | | Date of CR | 16 / 4 / 1437 H. |
| College/ Department | | College of Engineering / Electrical Engineering | | |

**A Course Identification and General Information**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course title: | | Signals and Systems Analysis | | | | | Code | | | EE 221 | | | Section | | | 564 | | |
| 2. Name of course instructor | | | | Dr. Abdullah Al-Ahmadi | | | | | | | Location : | | | Al-Yehya campus | | | | |
| 3. Year and semester to which this report applies: | | | | | | | | | | 1436-1437, Semester 1 | | | | | | | | |
| 4. Number of students starting the course? | | | | | | 18 | | Students completing the course? | | | | | | | | | 15 |  |
| 5. Course components: | | | | | | | | | | | | | | | | | | |
|  | Lecture | | Tutorial | | Laboratory/  Studio | | | | Practical | | | Other | | | **Total** | | | |
| **Contact**  **Hours** | 45 | | 15 | | ……….. | | | | ……….. | | | ……….. | | | **60** | | | |
| **Credit** | 3 | | 0 | | ……….. | | | | ……….. | | | ……….. | | | **3** | | | |

**B- Course Delivery:**

**1. Coverage of Planned Program**

|  |  |  |  |
| --- | --- | --- | --- |
| **Topics Covered** | **Planned** Contact Hours | **Actual** Contact Hours | **Reason for Variations (\*)** |
| Introduction and basic system properties | 12 | 12 | ………………………………….. |
| Linear time-invariant systems. | 8 | 8 | ………………………………….. |
| Continuous-time Fourier transform | 8 | 8 | ………………………………….. |
| Discrete-time Fourier transform. | 8 | 8 | ………………………………….. |
| Sampling | 8 | 8 | ………………………………….. |
| Laplace transform | 8 | 8 | ………………………………….. |
| Z-transform. | 8 | 8 | ………………………………….. |
| ……………………………………….. | ………. | ……….. | ………………………………….. |
| ……………………………………….. | ………. | ……….. | ………………………………….. |

( \* ) 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 |
| ………………………………. | ………………………………. | ………………………………. |
| ………………………………. | ………………………………. | ………………………………. |
| ………………………………. | ………………………………. | ………………………………. |
| ………………………………. | ………………………………. | ………………………………. |

**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** | **.....................................................................** | .................. | .................. |
| **2.2** | **An ability to design a system, component, or process to meet desired needs within realistic**  **constraints** | Standardized exams | Can follow aa previous example competently |
| **2.3** | **.....................................................................** | .................. | .................. |
| **2.4** | **.....................................................................** | .................. | .................. |
| **2.5** | **.....................................................................** | .................. | .................. |
| **2.6** | **.....................................................................** | .................. | .................. |
| **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** | **An ability to apply knowledge of mathematics, science, and engineering** | Standardized exams | Does not understand the connection between mathematical models and the system or process to be analyzed or designed |
| **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.**

|  |
| --- |
| ………………………………………………………………………………………………………….………………………………………………………………………………………………………….………………………………………………………………………………………………………….………………………………………………………………………………………………………….…………………………………………………………………………………………………………. |

**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, research activities, lab demonstrations, projects, case studies,  memorization and individual presentation |  | Y | ……………..…………………………. |
| Lecture, small group work, research activities, lab demonstrations, projects  and individual presentation |  | Y | ……………..…………………………. |
| ……………………………………….… |  |  | ……………..…………………………. |
| ……………………………………….… |  |  | ……………..…………………………. |
| ……………………………………….… |  |  | ……………..…………………………. |

**C. Results**

**1. Distribution of Grades**

|  |  |  |  |
| --- | --- | --- | --- |
| Letter  Grade | Number of  Students | Student  Percentage | Analysis of Distribution of Grades |
| **A+** | 1 | 5.55 % | ……………………………………………………….. |
| **A** | 0 | 0 % | ……………………………………………………….. |
| **B+** | 1 | 5.55 % | ……………………………………………………….. |
| **B** | 2 | 11.1 % | ……………………………………………………….. |
| **C+** | 1 | 5.55 % | ……………………………………………………….. |
| **C** | 2 | 11.1 % | ……………………………………………………….. |
| **D+** | 2 | 11.1 % | ……………………………………………………….. |
| **D** | 6 | 33.3 % | ……………………………………………………….. |
| **F** | 3 | 16.65 % | ……………………………………………………….. |
| **A+** | …………. | …….. % | ……………………………………………………….. |
| Denied  Entry | 1 | …….. % | ……………………………………………………….. |
| In Progress |  | …….. % | ……………………………………………………….. |
| Incomplete |  | …….. % | ……………………………………………………….. |
| Pass | 15 | …….. % | ……………………………………………………….. |
| Fail | 3 | …….. % | ……………………………………………………….. |
| Withdrawn | 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 |
| …………………………………………… | …………………………………………… |
| …………………………………………… | …………………………………………… |
| …………………………………………… | …………………………………………… |

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

|  |  |
| --- | --- |
| Variation | Reason |
| …………………………………………… | …………………………………………… |
| …………………………………………… | …………………………………………… |
| …………………………………………… | …………………………………………… |

**4. Student Grade Achievement Verification:**

|  |  |
| --- | --- |
| Method(s) of Verification | Conclusion |
| …………………………………………… | …………………………………………… |
| …………………………………………… | …………………………………………… |
| …………………………………………… | …………………………………………… |

**D. Resources and Facilities**

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

**E. Administrative Issues**

|  |  |
| --- | --- |
| Organizational or administrative difficulties encountered (if any) | Consequences of any difficulties experienced for student learning in the course |
| …………………………………………… | …………………………………………… |
| …………………………………………… | …………………………………………… |
| …………………………………………… | …………………………………………… |

**F. Course Evaluation**

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

|  |
| --- |
| a. List the most important recommendations for improvement and strengths   * ……………………………………………………………………………………………… * ……………………………………………………………………………………………… * ……………………………………………………………………………………………… * ……………………………………………………………………………………………… |
| 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. More copies of the textbook | No actions were taken | ………………… | ………………… |
| 1. Visual materials should be provided. | No actions were taken | ………………… | ………………… |
| 1. Instructor manual | No actions were taken | ………………… | ………………… |
| 1. ………………………… | ……………… | ………………… | ………………… |

**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. Modify the SLOs in the approved course specifications | The SLOs for this course should be changed to only 2 SLOs | Beginning of Semester 2 | End of Semester 2 | UPC |
| 1. Modify the SLOs in the SLO evaluation app. | ………………………… | Beginning of Semester 2 | End of Semester 2 | UPC |
| 1. Modify the course objectives in the course description file. | ………………………… | Beginning of Semester 2 | End of Semester 2 | UPC |
| 1. Change the official textbook. | ………………………… | Beginning of Semester 2 | End of Semester 2 | UPC |
| 1. ………………………… | ………………………… | …/…/1437 H | …/…/1437 H | ……..… |

**Course Instructor:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name: | Dr. Abdullah Al-Ahmadi | | |
| Signature: | ............................. | Date Report Completed: | 16/04/1437 H |

**Program Coordinator:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name: | Dr. Abdullah Almohaisen | | |
| Signature: | ............................. | Date Received : | ....../…../1437 H |

**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