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**Semester Course Report**

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| --- | --- | --- | --- | --- | --- |
| University | ULAB | School | Science and Engineering | Department | CSE |
| Semester | Spring | Year | 2020 |

I. Basic Information

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. | Course Code | | | CSE 306 | | | | | |
| 2. | Course Title | | | Algorithms Lab | | | | | |
| 3. | Section | | | 2 | | | | | |
| 4. | Unit/Credit hours: | | | 1 | | | | | |
|  | | | | | | | | | |
| Lectures | |  | Tutorial | |  | Practical | 24 | Total | 24 |
|  | |  |  | |  |  |  |  |  |
| 5. | Course Instructor: | | | Satyaki Das | | | | | |

6. Intended Learning Outcomes:

|  |  |
| --- | --- |
| SKILLS | Apply programming skills and data structures to implement algorithms. |
| Develop and implement algorithmic solutions to real-life problems. |

**II. Statistical Information**

|  |  |  |
| --- | --- | --- |
|  | **No.** | **%** |
| Sessions Missed | 1 |  |
| Sessions Made Up | 1 |  |
| Total Sessions Conducted (excluding midterm& finals) |  |  |

|  |  |  |
| --- | --- | --- |
|  | **No.** | **%** |
| Students enrolled | 26 |  |
| Students who withdrew | 0 |  |
| Students who took final exam/project | 21 |  |
| Students passed | 18 |  |

|  |  |
| --- | --- |
|  | **No.** |
| Guest Lecturers Invited |  |
| Field Trips Taken |  |

|  |  |
| --- | --- |
|  | **Average Number Per Session** |
| Tardy Students |  |
| Absent Students |  |

Achievement of students:

|  |  |  |
| --- | --- | --- |
| Letter Grade | No. | % |
| A+ | 0 | 0.00% |
| A | 0 | 0.00% |
| A- | 2 | 7.69% |
| B | 0 | 0.00% |
| B+ | 5 | 19.23% |
| B- | 3 | 11.54% |
| C+ | 1 | 3.85% |
| C | 7 | 26.92% |
| D | 0 | 0.00% |
| Total | 18 | 69.23% |

III. Professional Information

1. Course topic/content ILO covered

|  |  |  |
| --- | --- | --- |
| Topics Taught | ILO Covered | No. of Sessions |
| Insertion Sort, Growth of Functions | ILO1 | 5 |
| Divide-and-Conquer: Merge Sort and Quick Sort | ILO1 & ILO2 | 4 |
| Greedy Algorithm | ILO1 & ILO2 | 5 |
| Dynamic Programming | ILO1 & ILO2 | 5 |
| Graph Algorithms | ILO1 & ILO2 | 5 |

What percentage of topics/content planned were actually taught? (Please encircle appropriate answer)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1. >90% | √ | b. 70-90% |  | c.<70% |  |

If <70%, please write the reason for not teaching all topics/content planned:

|  |
| --- |
|  |

If any topics/contents were taught which were not written in course outline, give reasons in detail:

|  |
| --- |
|  |

1. Teaching and learning methods:

|  |  |  |
| --- | --- | --- |
| **Teaching Methods** | **No.** | **% of Total Session** |
| Lectures | 22 | 100 |
| Debate |  |  |
| Discussion | 10 | 45.45 |
| Presentation |  |  |
| Group Work | 4 | 18.18 |
| Others |  |  |
| Active learning: (Please Specify) |  |  |
| **Teaching Aids:** | **No.** | **% of Total Session** |
| Video |  |  |
| Audio |  |  |
| Handout |  |  |

1. Student assessment:

|  |  |  |  |
| --- | --- | --- | --- |
| **SL#** | **Type** | **Description** | **ILO Assessed** |
| 1. | Written Examination | Midterm, Final and Quizzes |  |
| 2. | Oral Examination | Presentation | 1-2 |
| 3. | Laboratory work |  | 1-2 |
| 4. | Projects | Group | 1-2 |
| 5. | Research Papers |  |  |
| 6. | Others (please specify) | Assignment | 1-2 |

Involvement of external evaluator in student assessment

|  |  |  |  |
| --- | --- | --- | --- |
|  | Yes | √ | No |

If yes, please explain

|  |
| --- |
|  |

1. Facilities and teaching materials:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL#** | **Facilities** | **Please rate the following**  **(1-inadequate, 2-adequate to some extent, 3-adequate)** | | |
| **1** | **2** | **3** |
| 1. | Classroom |  |  | 3 |
| 2. | Projector/Screen |  |  | 3 |
| 3. | Whiteboard/Marker |  |  | 3 |
| 4. | Chair/table |  |  | 3 |
| 5. | Computer (If appropriate) |  | 2 |  |
| 6. | Laboratory (If appropriate please specify) |  | 2 |  |
| 7. | Equipment (If appropriate please specify) |  |  |  |

List any Inadequacies:

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| --- |
|  |

1. Administrative Constraints

List any difficulties encountered:

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|  |

1. Suggestions for Course Enhancement:

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| --- | --- | --- |
|  |  |  |
| Signature: |  |  |
|  |  |  |
| 03.05.2020 |  |  |
| Date: |  |  |