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| **Daffodil International University**  **Faculty of Engineering**  **B.Sc. in Civil Engineering** | | | |
| **Part A- Introduction** | | | |
| **Course Code:** CE 402 | | **Course Title:** Industrial Training | |
| **Course Type:** Civil Engineering (Core) | | **Level/Term:** Level 4/Term 1 | |
| **Academic Session:** Spring -2025 | | **Course Instructor:** SB | |
| **Prerequisite:** N/A | | **Credit Value:** 1.5 | |
| **Contact Hours:** 3 Weeks | | **Total Marks:** 100 | |
| **A.1 Course Summary**  Total of three weeks of work in civil engineering industry under direct supervision from faculties and professionals. Tasks may include regular job description of an engineer or data accumulation for analysis and research. The students will be required to present and submit internship report at the end of the work. | | | |
| **A.2 Course Objectives**  This course aims to engage the students with industrial or real life projects. This task will enable a student to get acquainted with the regular work of an engineer and work procedure of real life project which will help them develop teamwork skill and communication skills. In particular, this course focuses on the empowering students understanding the industry academia linkage and application of course knowledge to practical works Report preparation and oral presentation enable students improving their writing and delivery skill. | | | |
| **A.3 Course Learning Outcomes (CO):** At the end of the course, the student will be able to- | | | |
| **CLO** | **CO statements** | | **Bloom’s taxonomy level** |
| **CO 1:** | *Develop* the skill of teamwork & communication | | C4 |
| **CO 2:** | *Develop* the skill of report writing | | C4 |
| **CO 3:** | *Illustrate* the project based learning | | C3 |

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| **A.4 Mapping/Alignment of COs with Program Learning Outcomes (PO)** | | | | | | | | | | | | |
| **CO** | **PO (a)** | **PO (b)** | **PO (c)** | **PO (d)** | **PO (e)** | **PO (f)** | **PO (g)** | **PO (h)** | **PO (i)** | **PO (j)** | **PO (k)** | **PO (l)** |
| **CO 1** |  |  |  |  |  |  |  |  | **√** |  |  |  |
| **CO 2** |  |  |  |  |  |  |  |  |  | **√** |  |  |
| **CO 3** |  | **√** |  |  |  |  |  |  |  |  |  |  |

**A.5 Mapping of Knowledge Profile, Complex Engineering Problem Solving and Complex Engineering Activities:**

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| CO | K1 | K2 | K3 | K4 | K5 | K6 | K7 | K8 | P1 | P2 | P3 | P4 | P5 | P6 | P7 | A1 | A2 | A3 | A4 | A5 |
| CO1 |  |  |  |  |  |  |  |  | **√** |  |  |  |  | **√** | **√** | **√** | **√** |  |  |  |
| CO2 | **√** |  |  | **√** | **√** | **√** |  |  |  |  |  |  |  |  |  |  |  |  | **√** |  |
| CO3 |  |  |  | **√** | **√** | **√** | **√** |  | **√** |  |  | **√** |  | **√** | **√** | **√** | **√** |  | **√** |  |

**A.6 Details of abbreviation for PO, Cognitive level, P, A, K:**

\*PO(a): Engineering knowledge; PO(b): Problem analysis; PO(c): Design/development of solutions; PO(d): Investigation; PO(e) Modern tool use; PO(f): The engineer and society; PO(g): Environment and sustainability; PO(h): Ethics; PO(i): Individual work and teamwork; PO(j): Communication; PO(k): Project management and finance; PO(l): life-long learning \*\*C-Cognitive: C1: Knowledge; C2: Comprehension; C3: Application; C4: Analysis; C5: Synthesis; C6: Evaluation A-Affective: A1: Range of resources; A2: Level of interaction; A3: Innovation; A4: Consequences for society and the environment; A5: Familiarity: P1: Range of conflicting requirements; P2: Depth of analysis required; P3: Depth of knowledge required; P4: Familiarity of issues; P5: Extent of applicable codes; P6: Extent of stakeholder involvement and level of conflicting requirements; P7: Interdependence: K1: theory-based understanding; K2: mathematics, numerical analysis, statistics; K3: theory-based formulation of engineering fundamentals; K4: Engineering specialist knowledge; K5: engineering design; K6: engineering practice; K7: ethics and the engineer’s professional responsibility; K8: knowledge in the research

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| **Part C- Assessment and Evaluation**  The total performance of a student will be assessed based on the attendance, report writing and presentation. Assessment and evaluation strategies are described in the following sections – |
| **C.1 Attendance**  Each student is expected to report to their assigned supervisor regularly and actively. Attendance is necessary for effective learning. Attendance is worth ten percent (10%) of total marks and students will be required to report to the supervisor/professional in all dates/meetings scheduled to the achieve full marks. Marks will proportionally be reduced with respect to number of absence in the discussion meeting/reporting.  **C.2 Reports Submission**  Students will prepare a detailed report on the project s/he worked during his training. This report will be worth twenty percent (20%) of the total marks. The report must be as per the prescribed format from the department.  **C.3 Reports Evaluation**  The submitted report will be evaluated by the supervisor assigned. Also the performance as the team member during internship will be evaluated by the industrial professionals/supervisor. The weightage of this report evaluation will be worth thirty percent (30%) of the total marks.  **C.4 Presentation**  The final presentation will include the training work. The final date and time of the presentation will be confirmed later by the department & supervisor. The final presentation is worth forty percent (40%) of total marks.  **C.5 Evaluation Policy**  Grades will be calculated as per the Daffodil International University grading structure and individual students will be evaluated based on the following criteria with respective weights. Total 100 marks will be distributed as follows.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Particulars** | **CO** | **Marks** | **Mark distribution in ERP** | **Remarks** | | Attendance | -- | 10 | Attendance | Will be collected through logbook of field visit | | Academic supervisor’s mark on **Industrial training report** | CO2 | 25 | Lab report | Assessed by Industrial training report (Final report) | | Academic supervisor’s mark on **Industrial training performance and final presentation** | CO3 | 40  (30+10) | Lab final | Assessed by final presentation and viva-voce on training report (Final report) | | Field supervisor’s mark | CO1 | 25 | Lab performance | Marks will be provided by field supervisor | | Total |  | 100 |  | | |
| **Part D-Learning Resources**  **D.1 Reference Books**   1. Professional Report Writing, by – Simon Mort (1st edition or later edition) 2. Speak to Win: How to Present with Power in Any Situation, by-Brian Tracy |