**CSE 4120**

**Technical Writing and Seminar**

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| CO No. | CO statement | Corresponding PO No. |
| CO1 | Analyze, and summarize technical papers, demonstrating comprehension of the main ideas, key concepts, supporting evidence, and logical arguments presented. | PO2 |
| CO2 | Demonstrate proficiency in employing appropriate citation methodologies and referencing techniques, ensuring accurate and consistent citation of sources, and effectively avoiding plagiarism. | PO8 |
| CO3 | Develop effective presentation skills, applying guidelines and techniques to deliver clear, organized, and engaging technical presentations, incorporating visual aids and adapting to different audience needs. | PO10 |
| CO4 | Write scientific reports in a clear, concise, and structured manner, following the conventions of scientific writing, and effectively communicating technical information. | PO9 |

**Program Outcomes (POs) of B. Sc. in CSE Program:**

Graduates of the B. Sc. in CSE program are expected to attain the following Program Outcomes (POs) by the time of graduation.

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| **PO** | **Description** |
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| **PO2: Problem Analysis** | Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences. (K1 to K4) |
| **PO8: Ethics** | Apply ethical principles and commit to professional ethics, responsibilities and norms of engineering practice. (K7) |
| **PO9: Individual**  **and Teamwork** | Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings. |
| **PO10: Communication** | Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. |

Complex Engineering Activities

Complex engineering activities as required in PO10 are engineering activities or projects that have some or all of A1 to A5 characteristics.

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| **Attribute** | **Characteristics of Complex Engineering Activities** |
| Range of resources | A1: Involve the use of diverse resources (and for this purpose resources include people, money, equipment, materials, information and technologies) |
| Level of interaction | A2: Require resolution of significant problems arising from interactions between wide-ranging or conflicting technical, engineering or other issues |
| Innovation | A3: Involve creative use of engineering principles and research based knowledge in novel ways |
| Consequences for society and the environment | A4: Have significant consequences in a range of contexts, characterized by difficulty of prediction and mitigation |
| Familiarity | A5: Can extend beyond previous experiences by applying principles-based approaches |

**Report Format**

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