

# Course Outline for CSE-300

## Part A

**1. Course Code:** CSE-300

**2. Course Title:** Software Development Project (Sessional)

**3. Course Type:** Core Course

**4. Level/ Term:** Level: 3 Term: II

**5. Academic Session:** 2020-21

**6. Course Teacher:** Animesh Chandra Roy, Assistant Professor, Dept. of CSE, CUET  
Md. Billal Hossain, Lecturer, Dept. of CSE, CUET

### 7. Prerequisite(s):

- Basic Programming Knowledge (C/C++)
- OOP Concept
- Data Structure
- Algorithms Design and Analysis

**8. Credits:** 0.75 (3 hours of lab work per week)

**9. Contact Hours:** 3/2 hours of lab work per week

**10. Total Marks:** 75

### 11. Rational of the Course:

In this course, Students will collaborate on building a realistic piece of software, applications concerning with technical complexity (e.g., performance constraints, changing requirements) using optimal algorithms. This course is important for the students as it will help them to work on a team project and will give a glimpse of how to build a real-world application. This is a required course for all the students enrolling B. Sc. Engg. in CSE program. The catalogue description of the course is

### Course Content:

Sessional based on the following topics:



## Part B

### 14. Course plan specifying content, CLOs, co-curricular activities (if any), teaching learning and assessment strategy mapped with CLOs

#### Course Plan

	Topic	Teaching-Learning Methodology	Assessment Method	Corresponding CLOs
Week-01	Course overview	<ul style="list-style-type: none"><li>Recap previously learned courses: Object-Oriented Programming, Data Structure, Algorithms Design and Analysis</li><li>Learn about software design procedure</li></ul>	Lab Performance	• CLO-1
Week -02	Project topic selection	<ul style="list-style-type: none"><li>Get idea about various projects</li><li>Know about Windows/Android applications</li><li>Select topics that is suitable for practical implementation</li></ul>	Report	• CLO-2
Week -03	Design and analysis of individual projects	<ul style="list-style-type: none"><li>Collect required information for the project</li><li>Select appropriate tools / framework / environment for implementing the project</li></ul>	Lab Performance Report	• CLO-2
Week -04	Monitoring improvement of project	<ul style="list-style-type: none"><li>Find out the limitations/bugs in the project</li><li>Improve project quality</li></ul>	Lab Performance Report	• CLO-3
Week -05	Final Project Submission		Lab Performance Report	• CLO-3

Week -06	Presentation and evaluation of the project		Presentation Report	• CLO-3
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## Part C

### 15. Assessment and Evaluation

#### 1) Assessment Strategy

Quizzes	15%
Viva-voce	15%
Class performance including reports	60%
Attendance	10%
Total	100%

#### 2) Marks distribution:

- a) Continuous Assessment: 70%
- b) Summative: 30%

#### 3) Make-up Procedures:

- Course teacher may arrange for makeup lab schedule if necessary.

## Part D

### 16. Learning Materials

#### **Textbook(s):**

**Reference:** Various online resources depending on the project that the student is interested in.