Numerical Analysis Sessional

Sessional-2

Prepared by-
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Course Code: CSE-3102

Course Title : Numerical Analysis Sessional

Sessional Task (Using Bisection Method):

Exp. No.: 02

Exp. Name: Implementation of Bisection Method using C/C++.

1. Write a C/C++ program to find a real root of $f(x) = x^3 + x^2 + x + 7 = 0$ correct to three decimal places.
2. Write a C/C++ program to find the positive root between 0 and 1 of the equation $x = e^{-x}$ to a tolerance of 0.05%.
3. Write a C/C++ program to find a root, correct to three decimal places and lying between 0 and 0.5, of the equation $4e^{-x} \sin x - 1 = 0$.

Instruction about Sessional Report

1. Each sessional report must be submitted within 15 minutes after starting the class time by wrapping a cover file.
2. Report must be hand written format.
3. Each report will contain the following parts-
   a) Experiment No
   b) Name of the Experiment
   c) Problem Description
   d) Algorithm / Flowchart
   e) Source Code
   f) Input
   g) Output
   h) Discussion (This part must be unique)

Any Question???