Introduce My Self

Name: PROTIMA DASH (PD)

Designation: Lecturer (Senior) in Mathematics
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Home Town
Educational Background

S.S.C: Motijheel Model High School and College, Dhaka (in 1995)

H.S.C: Central Women’s College, Dhaka (in 1997)
B.Sc. : Jahangirnagar University (in 2003)
First class Third

M.Sc. : Jahangirnagar University (in 2004)
First class First

M.Phil. : Start in 2014
Jahangirnagar University
First part has completed.
2nd part to be continuing.
Course Outline

Course Title: Numerical Methods

Course Code: CSE 235

- Error Discussion.
- Solution of Algebraic & Transcendental Equation.
- Solution of System of Linear Equation.
- Interpolation.
- Curve Fitting.
- Numerical Differentiation.
- Numerical Integration.
Marks Distribution

- Attendance: 07%
- Class Test: 15%
- Assignment: 04%
- Presentation: 06%
- Class Performance: 03%
- Mid Exam: 25%
- Final Exam: 40%

Total: 100%

1. If you will attend all classes then you will get 07 marks.
2. I will conduct 3 CT and you will get average marks of 3 CT.
3. If you will not copy from other then you will get good marks in Assignment.
4. If you will full-fill all criteria of presentation then you will get good marks.
Why you study this course?

What do you want in your future life?
Application of this course in CSE
Error analysis

Estimate errors in calculation of various methods
Able To Solve Equations

Algebraic Equation:
- $x + 2 = 0$
- $x^2 + 4x - 4 = 0$
- $x^3 - 4x^2 + 6x - 10 = 0$

Transcendental Equation:
- $e^{2x} + \ln x + \sin x + 3 = 0$
The traffic signal controller and vehicle detectors are used to help create better traffic conditions.

Executing bus priority signal control by detecting bus approach via wireless communication.
Population Analysis or any type of Analysis

By Interpolation
Finding The Best Fit

Shock wave

Curve fitting of tabular data
Rate of Change

- Starting position = 0 m
- Ending position = 3 m

- 1 second
- 2 seconds
- 3 seconds
Digital Image processing
FINDING THE AREA OF AN IRREGULAR FIGURE
Game development
✔ Made any types of calculator or mathematical logic.
Some Rules and Regulation

✔ You must enter into my class due time. I will called attendance after **15 minutes** from my class start.

✔ If you absent **consecutive 2 classes** then you will auto absent from the next class. If you will present after 2 classes then I will contact with parents over phone identify the reason of your absence during my class.

✔ If you will fail to doing your CT or submit your assignment or presentation in proper time then I will makeup it if you will show your proper reason about your inability.

✔ You must use Google Classroom. Your Google Classroom Code is:

THANK YOU for coming!