Course Title: CSE 312 Operating Systems Lab

East Delta University
School of Science, Engineering & Technology
Engineering Program Course Syllabus Summer 2025
Course Code: CSE 312
Credit Hours: 1.5

Instructor details
Name: SARAF ANIKA
Designation: Assistant Professor
E-mail: saraf.a@eastdelta.edu.bd
Student Consultation Hour:
Sunday: 2PM to 2:30PM,
Monday: 11:30AM to 12PM,
Tuesday: 2PM to 2:30PM,
Wednesday: 2PM to 2:30PM

Course Description

The goal of this course is to have students understand and appreciate the principles in the design and implementation of operating systems software.

Learning Objectives

On successful completion of this course students will be able to:

- Appreciate the role of operating system as System software.
- Compare the various algorithms and comment about performance of various algorithms used for management of memory, CPU scheduling, File handling and I/O operations.
- Apply various concept related with Deadlock to solve problems related with Resources allocation, after checking system in Safe state or not.
- To appreciate role of Process synchronization towards increasing throughput of system.

Class Contents

- All the scheduling algorithms and related materials from Chapter 6: "CPU Scheduling" and Chapter 10: "Mass Storage Structure" of the mentioned book.
- To understand the lab contents and perform well, students MUST HAVE working knowledge in C Programming Basics (Function, Loop, Array, IF ELSE etc.)
- In order to get good grades, students need to perform well in every lab class to achieve good marks in **Lab Performance** assessment criteria.

Textbooks & Required Reading

- Operating System Concepts by Silberschatz, Galvin & Gagne, *9th* edition.
- Materials uploaded in Google Classroom/Classwork Tab

Grading Policy

Percentage (Marks)	Letter Grades	G.P.A
93% & Above	A	4.0
89% – <93%	A-	3.7
86% – <89%	B+	3.3
82% – <86%	B	3.0
79% – <82%	B-	2.7
75% – <79%	C+	2.3
72% – <75%	C	2.0
69% – <72%	C-	1.7
65% – <69%	D+	1.3
60% – <65%	D	1.0
<59%	F	0.0

Marks Distribution:

Grades for the course will be based on the following weighting:

Lab Performance: 30%

Lab Assignments: 15%

Mid Assessment: 10%

Lab Test, Quiz & Viva: 40%

Attendance: 5%

Total: 100%