



# Course Weekly Outline

**Course Name : Operating System 1**

<b>Course Instructor</b>					
<b>E-mail</b>					
<b>Title</b>					
<b>Course Coordinator</b>					
<b>Course Objective</b>	To present operating systems objectives, concepts, structure and mechanisms. To develop students practical knowledge of operating systems by means of advanced use and system programming.				
<b>Course Description</b>	(1) Introduction To Computer Systems; (2) Introduction To Operating Systems; (3) Process Managment: Introduction To Processes, Process Scheduling, Interprocess Communication, Classical IPC Problems, (4) dead lock				
<b>Textbook</b>	-Peterson, Operating System Concepts, Prentice Hall				
<b>References</b>	-Tanenbaum, Andrew S. Modern Operating Systems. Prentice Hall. -Hantelmann, Fred. Linux Start-up Guide. Springer. -Kernighan, Brian W. e Ritchie, Dennis M. The C Programming Language (ANSI C). Prentice-Hall. -Robbins, Kay A. Practical UNIX Programming. A Guide to Concurrency, Communication, and Multithreading. Prentice-Hall.				
<b>Course Assessments</b>	TermTests	Laboratory	Quizzes	Project	Final Exam
	C1=15% C2=15%	10%	10%		50%
<b>General Notes</b>					



### Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Introduction to Operating System (OS)		
2		Categories & performance development		
3		Computer system operation		
4		OS services, OS & user view		
5		Information management (files)		
6		Access methods, directories		
7		Free Space List (FSL)		
8		Allocation Methods		
9		Process Management		
10		Process Scheduling, sch. levels		
11		Context Switch, Operations on process		
12		Threads, Interrupts		
13		CPU Scheduling, Sch. algorithms		
14		Deadlock ( def. & conditions)		
15		Methods for handling Deadlock		
16		RAG, Banker's and safety algorithms		

**Instructor Signature:**

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