

Teaching Plan

Name of the Faculty: Nidhi Passi

Name of the Course: Applied Physical Science

Semester : IV Sec (if any): --

Title of the Paper : Operating Systems

Month	Topics Covered	References
January	<p>Chapter1 (Introduction) 1.1, 1.4-1.11</p> <p>Chapter5(ProcessScheduling) 5.1 - 5.3</p> <p>Chapter6(Synchronization) 6.1-6.2</p> <p>Practical- Usage of Unix commands, editors, execution and Interface</p>	<p>A Silberschatz, P.B. Galvin, G. Gagne, Operating Systems Concepts, 8th Edition, John Wiley Publications</p> <p>The Unix programming Environment by B.W. Kernighan & R.Pike</p>
February	<p>Chapter8(MemoryManagementStrategies) 8.1 – 8.4(upto 8.4.2),8.6</p> <p>Chapter 9(Virtual Memory Management) 9.1 – 9.2,9.4(9.4.1-9.4.3)</p> <p>+ Test (11th Feb)</p> <p>Practical- based on CPU Scheduling Algorithms</p>	<p>A Silberschatz, P.B. Galvin, G. Gagne, Operating Systems Concepts, 8th Edition, John Wiley Publications</p> <p>Based on theory</p>
March	<p>Chapter 2(System Structures)2.1 – 2.5, 2.7(2.7.1-2.7.3)</p> <p>Chapter 3(Process Concept) 3.1 - 3.3</p> <p>Chapter4(MultithreadedProgramming)4.1</p> <p>+Test (17th March)</p> <p>+Assignment (21st March)</p> <p>Practical- based on memory allocation algorithms</p>	<p>A Silberschatz, P.B. Galvin, G. Gagne, Operating Systems Concepts, 8th Edition, John Wiley Publications</p> <p>Based on theory</p>
April	<p>Chapter 10(File System)10.1–10.3, 10.6</p> <p>Chapter11(ImplementingFileSystems)11.1, 11.4 – 11.5</p> <p>+ Revision</p>	<p>A Silberschatz, P.B. Galvin, G. Gagne, Operating Systems Concepts, 8th Edition, John Wiley Publications</p>

Teaching Plan

Name of the Faculty: Dr. (Ms). Shalu Chandra

Name of the Subject: B.Sc Physical Sciences with computer

Semester: IV Sec (if any):

Title of the paper: Ability enhancement credit course (AECC Jan- May 2016) Month	Topics Covered	References
January	<p>Unit 2. Cell as a unit of Life The Cell Theory; Prokaryotic and eukaryotic cells; Cell size and shape; Eukaryotic Cell components (10 Periods)</p> <p>Unit 5. Cell Cycle: Interphase, Mitosis and Meiosis Role of Cell division; Overview of Cell cycle; Molecular controls; Meiosis (8 Periods)</p>	<p>1. Campbell, N.A. and Reece, J. B. (2008) Biology 8th edition, Pearson Benjamin Cummings, San Francisco.</p> <p>2. Raven, P.H et al (2006) Biology 7th edition Tata McGrawHill Publications, New Delhi</p> <p>3. Sheeler, P and Bianchi, D.E. (2006) Cell and Molecular Biology, 3rd edition, John Wiley & sons NY</p>
February	<p>Unit 1. Techniques in Biology Principles of microscopy; Light Microscopy; Phase contrast microscopy; Fluorescence microscopy; Confocal microscopy; Sample Preparation for light microscopy; Electron microscopy (EM)- Scanning EM and Scanning Transmission EM (STEM); Sample Preparation for electron microscopy; X-ray diffraction analysis (12 Periods)</p>	-do-
March	<p>Unit 3. Cell Organelles Mitochondria: Structure, marker enzymes, composition; mitochondrial biogenesis; Semiautonomous nature; Symbiont hypothesis; Proteins synthesized within mitochondria; mitochondrial DNA Chloroplast Structure, marker enzymes, composition; semiautonomous</p>	-do-

	nature, chloroplast DNA	
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Teaching Plan

Name of the Faculty : Anirban Chatterjee

Name of the Course : Applied Physical Science

Semester : IV Sec (if any) : N.A.

Title of the Paper : Differential Equation-I(MAPT-404)

Month	Topics Covered	References
<u>January</u>	Ordinary differential equation: First order exact differential equations, Integrating factors. First order higher degree equations solvable for x, y, p. Methods for solving higher-order differential equations, Wronskian .	1) Differential equations(3 rd edition) by S.L. Ross 2) Elements of partial differential equations by I. Sneddon.
<u>February</u>	Linear non-homogenous equations. The method of variation of parameters, The Cauchy-Eular equation. Simultaneous differential equations. Applications of differential equations.	
<u>March</u>	Partial Differential Equations: Concept of linear and non linear partial differential equations. Formation of first order partial differential equations. Linear partial differential equation of first order. Lagrange's, Charpit's method etc. Classification of second order partial differential equations.	
<u>April</u>	Revisions, tests and evaluation of assignments.	

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Note : The tentative date of Assignment/test/Project may also be provided.

The schedule of Practicals may also be provided