

Modern Operating Environment and Operating system

Semester I

Subject Code: BC11501

Lectures: 48

Objectives:







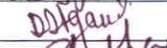


- The syllabus aims in equipping students with
- An ability to identify computer hardware and peripheral devices.
 - The knowledge of creating basic documents, worksheets, presentations and database.
 - The Basics of Computer and Operating Systems.
 - The usage of software packages daily.

Unit 1: Introduction to computer Basics

10
Lects.

- Computer Characteristics
- Hardware, Software
- Evolution of computer and Generations
- Types of computer – Analog & Digital computers, Hybrid computers, General purpose & Special Purpose Computer,
- Advantages, disadvantages and applications of Computer in Various fields
- Functional Block diagram of Computer. CPU, ALU, Memory Unit.

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Name	Sign
Prof. Gautam Kudale	
Prof. Mahesh Pawar	
Mr. Suraj Agarwal	
Ms. Netra Jadhav	
Mrs. Smita Borkar	
Mrs. Divya Chitre	
Mrs. Monika Rajguru	
Ms. Deepali Agarwal	
Mrs. Shubhangi Jagtap	



Unit 2: Input /Output Devices	10 Lects.
<ul style="list-style-type: none"> • Input device – Keyboard, Mouse, Scanner, Card Reader(MICR, OMR) • Output devices – Monitor (LED, LCD), Printers – Dot Matrix, Inkjet, Laser, Plotters. 	5 5

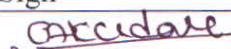





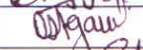


Unit 3: Computer Memory	6 Lects.
<ul style="list-style-type: none"> • Memory Concept, Memory organization • Semiconductor memory- RAM(SRAM,DRAM) ROM(PROM, EPROM) • Secondary Storage devices - Magnetic Disk (Hard disk.), Compact Disk/DVD, Pen Drive, Memory Card 	1 2 3

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Mr.Suraj Agarwal	<i>Suraj Agarwal</i>
Ms. Netra Jadhav	<i>Netra Jadhav</i>
Mrs.Smita Borkar	<i>Smita Borkar</i>
Mrs.Divya Chitre	<i>Divya Chitre</i>
Mrs.Monika Rajguru	<i>Monika Rajguru</i>
Ms.Deepali Agarwal	<i>Deepali Agarwal</i>
Mrs. Shubhangi Jagtap	<i>Shubhangi Jagtap</i>



Unit 4: Computer Language and Introduction to Number System	8 Lects.
<ul style="list-style-type: none"> • Software - System and application software • Machine language, Assembly language, High Level language, Characteristics of good Language • Assembler, Compiler, Interpreter • Number System(decimal, binary, octal, hexadecimal conversions), ASCII 	1 2 1 4

Unit 5: Operating System	4 Lects.
<ul style="list-style-type: none"> • Introduction and Evolution of operating system • Functions of operating system • Types of operating system 	1 1 2

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Unit 6: Introduction to windows and Linux operating system	10 Lects.
<ul style="list-style-type: none"> Architecture of windows (Basic structure of window) 	1
<ul style="list-style-type: none"> Desktop (Start button, Task bar, Folder, Icon), control panel 	3
<ul style="list-style-type: none"> Architecture of Linux O.S 	1
<ul style="list-style-type: none"> Linux Commands date, cal, cat, ls, chmod,mkdir, cd, rmdir, cp, mv, rm, pwd, wc, grep, man, passwd, echo, who, tail, head, who am I 	4
<ul style="list-style-type: none"> Difference between Linux and Windows Operating system 	1

Reference Books:

- *Computer Fundamentals* by P.K. Sinha & Priti Sinha, 6th edition, BPB publication 2003.
- *Computers Today* by S. Basandra Galgotia Pub 2008.
- *Fundamental of computers* by V.Rajaraman Prentice Hall of India 4th edition 2007.
- *UNIX Concepts and Application* by Sumitabha Das Tata McGraw Hill 3rd edition 2003.

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