

Lesson Plan
Class BCA-III (6th Semester)
BCA-362 Operating System-II

2nd Week, Jan 2024

Process Synchronization: The Critical Section Problem – Single Process/Two Process Solutions; Semaphores – Types, Implementation, Deadlocks and Starvation;

3rd Week, Jan 2024

Classical Problems of Synchronization – The Bounded Buffer Problem, The Readers and Writers Problem, The Dining-Philosophers Problem, Critical Regions, Monitors

4th Week, Jan 2024

Directory Structure: Single Level, Two Level, Tree Structures, Acyclic Graph, General Graph; Directory Implementation, Recovery

1st Week, Feb 2024

Secondary Storage Structure: Disk Structure, Disk Scheduling: FCFS, SSTF, SCAN, C-SCAN, LOOK.

2nd Week, Feb 2024

Selection of Disk Scheduling Algorithm; Disk Management; Swap Space Management Network Operating Systems: Remote Login

3rd Week, Feb 2024

Remote File Transfer; Distributed Operating System: Data Migration, Computation Migration, Process Migration

4th Week, Feb 2024

Linux: Introduction, Features, Architecture, Distributions, Accessing Linux System, Login/Logout/Shutting Down, Comparison of Linux with other Operating Systems

1st Week, March 2024

Commands in Linux: General-Purpose Commands, File Oriented Commands, Directory Oriented Commands, Communication Oriented Commands

2nd Week, March 2024

Process Oriented Commands, Redirection of Input and Output, Pipes

3rd Week, March 2024

Linux File System: Types of Files in Linux, File Attributes, Structure of File System, inode

1st Week, April 2024

File Permission, File System Components, Standard File System, File System Types, Disk Related Commands Processes in

Linux: Introduction, Job Control in Linux using at, batch, cron & time commands

2nd Week, April 2024

The vi editor: Introduction, Modes of vi Editor, Command in vi Editor Shell Programming: Introduction, Shell Variables, Shell Keywords, Operators,

3rd Week, April 2024

Assigning Values to the Variables, I/O in Shell, Control Structures, Creating & Executing Shell Programs in Linux.

4th Week, April 2024

Revision and Test



Ashok Kumar
Assistant Professor (Computer Science)

Lesson Plan 2023-24
Class BCA-II (4th Semester)
BCA –243 E-Commerce

2nd Week, Jan 2024

Introduction to E-Commerce:-Business operations; E-commerce practices vs. traditional business practices; concepts of b2b, b2c,c2c,b2g,g2h,g2c; Features of E-Commerce, Types of Ecommerce Systems

3rd Week, Jan 2024

Elements of E-Commerce, principles of E-Commerce, Benefits and Limitations of E-Commerce. Management Issues relating to e-commerce. Operations of E-commerce: Credit card transaction.

4th Week, Jan 2024

Secure Hypertext Transfer Protocol (SHTTP) ; Electronic payment systems; Secure electronic transaction (SET) ; SET's encryption; Process; Cybercash; Smart cards; Indian payment models.

1st Week, Feb 2024

Applications in governance: EDI in governance; E-government; E-Governance applications of Internet; concept of government –to- business, business-to-government and citizen-to-government.

2nd Week, Feb 2024

E-governance models; Private sector interface in E governance. Applications in B2C: Consumers shopping procedure on the Internet.

3rd Week, Feb 2024

Impact on disinter mediation and re-intermediation; Global market; Strategy of traditional department stores.

4th Week, Feb 2024

Products in b2c model; success factors of e-brokers; Broker-based services on-line; On line travel tourism services.

1st Week, March 2024

Benefits and impact of e-commerce on travel industry; Deal estate market; online stock trading and its benefits; Online banking and its benefits.

2nd Week, March 2024

On line financial services and their future; E-auctions – benefits, implementation and impact.

3rd Week, March 2024

Applications in B2B: Key technologies for b2b; architectural models of b2b, characteristics of the supplier –oriented marketplace.

1st Week, April 2024

buyer-oriented marketplace and intermediary-oriented marketplace; Just In Time delivery in b2b; Internet-based EDI from traditional EDI.

2nd Week, April 2024

Marketing Issues in b2b. Emerging Business models: Retail model; Media model; advisory model, made-to-order manufacturing model; Do-it- yourself model.

3rd Week, April 2024

Information service model; Emerging hybrid models; Emerging models in India, Internet & E-Commerce scenario in India; Internet security Issues; Legal aspects of E-commerce.

4th Week, April 2024

Revision and Test.



Ashok Kumar
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