Lesson Plan for the Session 2023-24

CLASS: B.C.A. 4th Sem
SUBJECT: ADVANCED DATA STRUCTURE
Name: Kamal Kishore

Month/Week	Topic
Jan/First	Tree: Introduction, Definition, Representing Binary Tree in memory, Traversing Binary Trees
Jan /Second	Traversal algorithms using stacks, Binary search trees: introduction, storage
Jan /Third	Searching, Insertion and deletion in a Binary search tree, Huffman's algorithm, General trees.
Jan /Fourth	Graph: Introduction, Graph theory terminology
Feb/First	Sequential and linked representation of graphs, operations on graphs
Feb /Second	Traversal algorithms in graphs and their implementation,
Feb /Third	Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path.
Feb /Fourth	Sorting: Internal & external sorting, Radix sort, Quick sort, Heap sort,
March/First	Merge sort, Tournament sort,
March l/Second	Comparison of various sorting and searching algorithms on the basis of their complexity.
March /Third	Files: Introduction Attributes of a file, Classification of files
March /Fourth	Holi Vacations
April/First	File operations, Comparison of various types of files,
April /Second	File organization: Sequential, Indexed-sequential, Random-access file.
April/Third	Hashing: Introduction, Collision resolution.
April/Fourth	Revision

Kamal Kishore

Lesson Plan for the Session 2023-24

CLASS: M.Com 4th Sem
SUBJECT: IT and E-Commerce
Name: Kamal Kishore

Month/Week	Topic
Jan/First	Introduction to E-commerce: Meaning of electronic commerce
Jan /Second	Business applications of e-commerce, comparison with traditional commerce; Business models in E-commerce
Jan /Third	E-shops, e-procurement, e-auctions, value chain integrators, information brokerage, telecommunication, collaboration platforms, etc.;
Jan /Fourth	Electronic payment system; E-Banking –concept, operations. Online fund transfer – RTGC, ATM, etc.
Feb/First	Online share market operations. Online marketing, Web-based advertising – concept, advantages
Feb /Second	Types of online advertisements; Search engine – as an advertising media, search engine optimisation – concept and techniques; Email marketing;
Feb /Third	Social Networking and marketing – promotion, opinion formulation, etc.;
Feb /Fourth	Viral Marketing, E-retailing-concept, advantages, limitations;
March/First	CRM and Information Technology, Tools to conducting online research – secondary research
March l/Second	Online focus groups, web based surveys
March /Third	Data mining from social networking sites;
March /Fourth	Holi Vacations
April/First	Cloud computing – Concept, uses in business; Enterprise Resource Planning;
April /Second	Security issues in e-commerce - Online frauds, Privacy issues;
April/Third	Cyber laws including Information Technology Act.
April/Fourth	Revision

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