

COURSE PLAN

Session No	Topics to be covered	Teaching Methodology
UNIT - I		
1	Subject Introduction and Syllabus Discussion	BB
2	Introduction To C++	BB
3	Tokens, Keywords, Identifiers, Variables, Basic Data Types	BB, PPT
4	Operators, Manipulators, Expressions	GD
5	Control Structures In C++	Assignment
6	Pointers - Introduction, Manipulation Of Pointers	BB
7	Pointers With Arrays, Array Of Pointers, Pointers And Strings	BB
8	Pointers To Functions And Objects, This Pointer	BB
9	Functions In C++ - Main Function - Function Prototyping	Seminar
10	Parameters Passing In Functions - Values Return By Functions - Inline Functions	GD
11	Friend Functions	Seminar
12	Revision On UNIT I	-
Unit Test - I		
UNIT - II		
13	Classes And Objects - Introduction, Creating Objects & Accessing Members	BB
14	Defining Member Functions, Static Data Members & Functions	BB
15	Array Of Objects , Objects As Function Arguments, Returning Objects	BB
16	Function Overloading	Seminar
17	Constructors And Destructors, Type Of Constructors	Seminar
18,19	Operator Overloading Using Member & Friend Function	Seminar

20	Type Conversions	GD
21	Inheritance : Single Inheritance - Multilevel Inheritance	PPT
22	Multiple Inheritance - Hierarchical Inheritance - Hybrid Inheritance	PPT
23	Virtual Functions And Polymorphism	BB
24	Managing Console I/O Operations - C++ Streams	GD
25	Unformatted I/O Operations	BB
26	Formatted Console I/O Operations	BB
27	Revision On UNIT II	-
CIA TEST - I		
UNIT - III		
28	Classes For File Stream Operations - Opening And Closing A File	BB
29	End- Of- File Deduction, File Modes	BB
30	File Pointers updating A File	BB
31	Updating A File	BB
32	Error Handling During File Operations - Command- Line Arguments	BB
33	Definition Of A Data Structure - Primitive And Composite Data Types	GD
34	Asymptotic Notations	BB
35	Arrays, Operations On Arrays, Order Lists	GD
36	Revision On UNIT III	-
Unit Test - III		
UNIT - IV		
37	Stacks	Practical Demonstration
38	Applications Of Stack - Infix To Postfix Conversion	BB
39	Evaluation Of Postfix Expression, Recursion	BB
40	Maze Problems	Puzzle

41	Queues - Operations On Queues	Practical Demonstration
42	Queue Applications, Circular Queue	BB
43	Singly Linked List - Operations, Application	BB
44	Representation Of A Polynomial, Polynomial Addition	Seminar
45	Doubly Linked List - Operations, Applications	BB
46	Revision On UNIT IV	-
CIA TEST - I		
UNIT - V		
47	Binary Trees - Conversion Of Forest To Binary Tree	BB
48	Tree Traversals	BB
49	Graph - Definition, Types Of Graphs	PPT
50	Hashing Tables And Hashing Functions	BB
51	Traversal - Shortest Path; Dijkstra's Algorithm	BB
52	Revision On UNIT V	-
REVISION		
53	Revision of UNIT I	BB
54	Revision of UNIT II	BB
55	Revision of UNIT III	BB
56	Revision of UNIT IV	BB
57	Revision of UNIT V	BB
CIA TEST - III		

	Prepared by	Approved by
Name & Signature	Mrs.P.Calista Bebe	Mrs.V.Umadevi
	Mrs.S.Meenakshi	
Designation	Asst.Professor / CS	HOD / CS
Date		