

LESSON PLAN -2024-25 (Even Sem.)

Class: BCA 4th Sem

Name :- Dr Rajesh Dawar

Sub:-Web Designing (BCA-206)

Month	1st Week	2nd Week	3rd Week	4th Week
JAN	--	Introduction to Internet and www, Evolution and History of www	Web Browsers, Web servers, HTTP Protocol, overview of TCP/IP and its services	URL's, searching and web casting, search engines and search tools Assignment-1
FEB	Hosting web sites, Internet service providers, phases of designing and planning website	Steps for developing web site , choosing the contents and Home Page	Domain Names, Front Page views, Adding pictures, hyperlinks Test-1	Relating Front Page to DHTML, creating websites using markup languages (HTML, DHTML)
MARCH	Introduction to HTML, Hypertext	HTML Command Tags	Creating links, headers, text styles	Text Structuring, text colours and background, formatting text, Page Layouts. Test-2
APRIL	Creating ordered and unordered Lists, inserting graphics, table creation and layouts,	Frame creation and layouts, working with forms and menus	Working with radio buttons, checkbox, text boxes, CSS	Features of DHTML and JSSS, Layers of Netscape, DHTML Events

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Sub:-Object Oriented Programming using C++ (BCA-208)

Month	1st Week	2nd Week	3rd Week	4th Week
JAN	--	Introduction to Procedure Oriented and Object Oriented Programming Approach, characteristics of OOP, user defined types	Polymorphism and encapsulation , C++ syntax, data types, variables, string, functions	Namespace and exception, operators, flow control, recursion, array and pointers, structures. Assignment -1
FEB	Introduction to classes, member functions, constructors, constructor overloading	Introduction to Static members, references	New, delete, object copying, , copy constructor, assignment operator, this operator, I/O	Inheritance, Derived class and base class, different types of inheritance. Test-1
MARCH	Overriding member functions, abstract class, public and private inheritance	Ambiguity in multiple inheritance, virtual functions, friend functions, static functions	Exception and derived class, Exception declaration, unexpected exception, resource capture and release	--
APRIL	Template classes declaration , template functions, namespaces, strings,	Iterators, , hashes, iostream.	Revision Test-2	Revision

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Dr. Rajesh Dawar

LESSON PLAN -2024-25 (Even Sem.)

Class: BCA 2nd Sem

Name :- Dr Rajesh Dawar

Sub:-Data and File Structures(23BCA402DS02)

Month	1st Week	2nd Week	3rd Week	4th Week
JAN	--	Introduction to data structures, data type Vs data structures	Data structure operations, application of data structures, introduction to Arrays	Representation of array in memory, address calculation Assignment-1
FEB	Insertion, deletion in array, Multi-dimensional array, Parallel arrays, sparse arrays	Searching of elements in array using linear and binary search along with their comparisons	Sorting of elements of arrays: Selection sort, insertion sort, Quick sort, Merge Sort and their comparisons Test-1	Introduction to stacks, arrays and linked representation of stack, operations on stack
MARCH	Application of stack: Polish Notation , Recursion	Introduction of Queues, Arrays and Linked representation of queues, Operation on queues, Dequeues, Priority Queues	Application of Queues, Introduction to Linked List, Representation of Linked List in Memory, Traversal, insertion, deletion, searching in a linked list	Header Linked List, Circular Linked List Test-2
APRIL	Two-way Linked List, Threaded List, Garbage Collection, Application of Linked List, Introduction to trees	Representing Binary Trees in memory, traversing Binary trees, traversal algorithms using stack, introduction to graphs, sequential and linked representation of stacks.	Introduction to files, file operations, external storage devices, concept of records, file, database and database systems	Introduction to sequential file organisations, record structure and access methods, index sequential file organisation, direct file organisation, hashed file organisations.

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LESSON PLAN -2024-25 (Even Sem.)

Class: BCA 2nd Sem

Name :- Dr Rajesh Dawar

Sub:-Web Development-II(24CSC402SE01)

Month	1st Week	2nd Week	3rd Week	4th Week
JAN	--	Introduction to XML-syntax, structure, DTD, Namespace	XML Schemas-Displaying raw XML Documents, displaying XML Documents with CSS, XSLT Style sheet, XML Processors, Web services	ECMS Scripts, its features, var declarations and Hoisting, functions, arrays, object destructuring, , sets and maps, java-script classes, callbacks, promises, sync/swait Assignment-1
FEB	Introduction to AJAX, Working of AJAX, Handling AJAX request and response, XML and JSON Data formats	Working with JSON Data, loading HTML with Ajax, Loading XML with Ajax, Loading JSON with AJAX	Introduction to JQuery, Need of JQuery, finding elements, JQuery Selection, getting element content, updating elements, changing content, inserting content, adding new content, getting and setting attributes, getting and setting CSS Attributes, events, event objects, animating CSS Properties, using animation Test-1	Traversing the DOM, working with forms, JavaScript libraries, JQuery and AJAX
MARCH	Introduction to web servers, HTTP Transactions, Multi-tier application architecture, client-side scripting versus Server side scripting, assessing web servers	Server side scripting with Node.js	Node.js with Mongo DB	Introduction to PHP, scope of PHP, XAMPP and WAMP installation , PHP Functions. Test-2
APRIL	Creating and modifying array elements, processing arrays with Loops	Grouping form selections with arrays, using array functions, using predefined PHP Functions	Creating user defined functions in PHP, embedding PHP in HTML, embedding HTML in PHP	Introduction to PHP variable, understanding data types, using operators, using conditional statements, using Looping statements.

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