Teaching plan (2021-22)

Teacher Name:Rohit Kumar

Class: BCA sem-1

Paper : C language

Sr. no.	Dates	Торіс
1	05-12 October	Programming Process : Problem definition, Algorithm development, Flowchart, Coding, Compilation and debugging.
2	13-21 October	Basic structure of C program : History of C, Structure of a C program, Character set, Identifiers and keywords, constants, variables, data types.
3	22- 29 October	Operators and expressions : Arithmetic, Unary, Logical, Relational operators, assignment operators, Conditional operators, Hierarchy of operations type conversion.
4	07 November -14 November	Control statements : branching statements (if, if else, switch), loop statements (for, while and do-while), jump statements (break, continue, goto), nested control structures.
5	17 -21 November	MST Exams
6	22-29 November	Functions : Library functions and user defined functions, prototype, definition and call formal and actual arguments, local and global variables, methods of parameter passing to functions, recursion
7	30 November-7 December	I/O functions: formatted & unformatted console I/O functions
8	8-16 December	Storage Classes: automatic, external, static and register variables.
9	17-23 December	Arrays: – One dimensional and two dimensional arraysDeclaration, initialization, reading values into an array, displaying array contents
10	11-12 Jauuary	Strings: input/output of strings, string handling functions (strlen, strcpy, strcmp, strcat & strrev), table of strings.
11	05-12 October	Pointers : pointer data type, pointer declaration, initialization, accessing values using pointers, pointers and arrays.
12	13-21 October	Introduction to Files in C: opening and closing files. Basic I/O operation on files.

13	22- 29 October	Rivision
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Paper : C language

Topic Sr. no. Dates 1 **Programming Process**: Problem definition, program design, coding, compilation and debugging; Program Development. 29-06 October 2 Basic Constructs: Identifiers, Keywords, Tokens, Data Types, Constants, Input and Output in C, Type Conversion, Operators 07-14 October and Expressions, Precedence Hierarchy of Operators, Associativity, Library functions. 3 Control Statements: Branching, Looping 15-21 October 4 Functions: Definition, Prototype, Different types of functions based on arguments and return type, parameter passing 22-27 October mechanisms, concept of recursive function. 5 Storage Classes Different Storage Classes (static, auto, extern, register), global and local variables 28 October – 03 November 6 03-09 November Arrays: Definition, accessing elements, initialization, passing to functions, multi-dimensional arrays, 7 String handling, Applications of linear arrays: linear and binary search, Bubble Sort and selection Sort 10-16 November 8 17-21 November Pointers: address and dereferencing operators, declaration, assignment, passing addresses to functions, using pointer arrays to sort n strings. 9 01-07 December Structure and Union: Variables, Accessing members, Nested structures, pointer to structures, concept of self-referential structures, Difference between a union and structure. 10 08-17 December **MST Exams** 11 File Handling in C: Processing a text file through C program; Concepts of Sequential File and Random File Text and Binary File, 26-31 December Formatted and Unformatted Files. (File Implementation is left out)

Class: PGDCA sem-1

Teaching plan (2021-22)

Teacher Name:Rohit Kumar

Sr. no.	Dates	Торіс
1	01-07 September	Introduction to HTML: Basic HTML concepts, an overview of HTML markup.
		What is good Web design; the process of Web publishing; implementation;
2	08-14	the phases of Web site development; HTML's role in the Web; and issues facing HTML and the Web.
	September	
3	15-21 September	HTML overview: the structure of HTML documents; document types; the <html> element; the <head></head></html>
		element; the <body> element;</body>
4	22-27	Links and Addressing: Linking basics; what are URLs; linking in HTML; anchor attributes; images and anchors;
	September	image maps; semantic linking with the <link/> element; meta-information;
5	28-02	HTML and Images: The role of images on the Web; image preliminaries
	october	
6	03-09	; image downloading issues; obtaining images; HTML image basics; images as buttons; and image maps.
	october	
7	10-17	Introduction to Layout: Backgrounds, Colors, and Text; design requirements; HTML approach to Web design;
	october	fonts; colors in HTML;
8	18-25	document-wide color attributes for <body>; and background images. Introduction to tables, LISTS; frames.</body>
	october	
9	25-01	Style Sheets: style sheets basics; style sheet example; style sheet properties; positioning with style sheets;
	November	
10	02-09	Basic Interactivity and HTML: Forms form preliminaries; the <form> element; form controls;</form>
	November	
11	10-14	Introduction to Server-Side Programming: This chapter covers: overview of client/server programming on the
	November	Web; server-side programming; common gateway interface (CGI);
12	15-21	MST Exams
1	November	

13	22-30	Dynamic HTML (DHTML): dynamic HTML and document object model; HTML and scripting access; rollover
	November	buttons; moving objects with DHTML; and ramifications of DHTML.

Teaching plan (2021-22)

Teacher Name:Rohit Kumar

Paper : JAVA SEC-B

Sr. no.	Dates	Торіс
1	01-07 September	Inheritance: types of inheritance, use of super
2	08-14 September	method overriding, final class, abstract class
3	15-21 September	wrapper classes.Arrays,
4	22-27 September	Strings and Vectors
5	28-02 october	Packages and Interfaces
6	03-09 october	visibility controls Errors and Exceptions: Types of errors,
7	10-17 october	Exception classes, Exception handling in java, use of try, catch, finally, throw and throws.
8	18-25 october	Taking user input, Command line arguments.
9	25-01 November	Multithreaded Programming: Creating Threads
10	02-09 November	Life cycle of thread, Thread priority
11	10-14 November	Thread synchronization
12	15-21 November	MST Exams
13	22-30 November	Inter-thread communication MST Exams

Class: BCA sem-5

Teaching plan (2021-22)

Teacher Name:Rohit Kumar

Class: BCA sem-2

Paper : DIGITAL ELECRONICS

Sr. no.	Dates	Торіс
1	07-14 March	Fundamental Concepts : Introduction to Analog and Digital Systems, Digital Signals, Basic Digital Circuits: AND, OR, NOT, NAND, NOR, XOR and XNOR gates
2	15-22 March	Boolean algebra theorems, Characteristics of Digital IC.
3	24-31 March	Number Systems: Positional and Non-positional number systems, Binary, Decimal, Octal and Hexadecimal, Base conversions,
4	1-8 April	Binary arithmetic: Addition and Subtraction, 1's complement, 2's complement, subtraction using 1's complement and 2's complement.
5	09-17 April	Combinational Logic Design: SOP and POS Representation of Logic functions
6	18-24 April	K-Map representation and simplification up to 4 variable expressions, Don't care condition.
7	25-30 April	Multiplexers: 4X1, 8X1 and 16X1. De-multiplexers: 1 to 4, 1 to 8 and 1 to 16. BCD to Decimal decoder,
8	2-08 May	Decimal to BCD encoder. Parity generator and Parity checker. Design of Half adder and Full adder.
9	09-15 May	Flip-Flops: Introduction, Latch, Clocked S-R Flip Flop, Preset and Clear signals, D-Flip Flop, J-K Flip Flop, The race-around condition, Master Slave J-K Flip Flop. D-Flip-Flop, Excitation Tables of Flip Flops. Edge-Triggered Flip Flops
10	16-22 May	A/D and D/A Converters: Introduction, Digital to Analog Converters: Weighted-Register D/A converter, R-2R Ladder D/A converter. Analog to Digital Converters: Quantization and encoding, Parallel-comparator A/D converter, Counting A/D converter.
11	26-31 May	MST Exams

Teaching plan (2021-22)

Teacher Name:Rohit Kumar

Class: BCA sem-5

Paper : web desigining using ASP.NET

Sr. no.	Dates	Торіс
1	01-07 September	Introduction to .net framework: - Genesis of.NET, Features, Advantages and disadvantages of .net framework. Common
		Language Runtime:-Common Type System, Common Language Specification, .Net binaries, Microsoft Intermediate Language,
		Meta Data, .Net types and .net namespaces.
2	08-14	Basics of ASP. NET: - Introducing ASP .NET- Creating ASP .NET applications using command line compiler and visual
	September	studio .net IDE.
3	15-21 September	Introduction to c#:- variables, Constants, Data Types, Operators, Control Structures and loops, Arrays, events.
4	22-27	Introduction to Classes and objects Web forms, Standard Controls: - Display information, Accepting user input,
	September	Submitting form data,
5	28-02	displaying images, using the panel control, using the hyperlink control.
	october	
6	03-09	Validation Controls: required field validation control, range validator Control, compare validator control, regular expression
	october	validator control, custom validator control, validation summary controls.
7	10-17	Rich Web Controls: -Accepting file uploads, displaying a calendar, Displaying advertisement, displaying different page views,
	october	displaying a wizard. List Controls: Dropdown list control, Radio button, list controls.
8	18-25	Grid View Controls: Grid view control fundamentals, using field with the grid view control, working with grid view control
	october	events extending the grid view control. Debugging, caching and deploying ASP .NET pages.
9	25-01	Master pages: - Designing Website with Master Pages: Creating master pages, Modifying master page content
	November	
10	02-09	ADO.NET:- Changes from ADO to ADO.NET, ADO .NET Managed Providers - OleDb and SQL Managed Providers -
	November	OleDb Data Adapter Type.
11	10-14	SQL Data Source Control: Creating database connections, executing database commands, Using ASP.NET parameters with the
	November	SQL data source controls,
12	15-21	MST EXAMS
	November	
13	22-30	programmatically executing SQL data source commands, Caching database data with the SQL data Source controls
	November	

Teaching plan (2021-22)

Teacher Name:Rohit Kumar

Class: BCA sem-5

Paper : OPERATING SYSTEM SEC-B

Sr. no.	Dates	Торіс

1	01-07 September	Deadlocks – Characteristics of deadlocks, methods for handling deadlocks
2	08-14	deadlock prevention, deadlock avoidance
	September	
3	15-21 September	Memory Management – Logical versus Physical address space, swapping
4	22-27	contiguous allocation, Paging,
	September	
5	28-02	Concept of Virtual memory, Implementation by Demand Paging
	october	
6	03-09	Page replacement algorithms – FIFO, Optimal, LRU,.
	october	
7	10-17	Concept of thrashing
	october	
8	18-25	File Management – Allocation methods: contiguous allocation,
	october	
9	25-01	linked allocation and indexed allocation;
	November	
10	02-09	Device Management – Disk Scheduling: FCFS,
	November	
11	10-14	SSTF, SCAN,
	November	
12	15-21	M MST EXAMS
	November	
13	22-30	C-SCAN, LOOK.
	November	

Teaching plan (2021-22)

Teacher Name:Rohit Kumar

Class: PGDCA sem-2

Paper : Database Management of System

Sr. no.	Dates	Торіс

1	22-29 March	Database Management System : Characteristics, Database: Definition, components, definition, characteristics, advantages over traditional file processing system,
2	30 -6 April	User of database, DBA and its responsibilities, Database schema, instance
3	7-14 April	DBMS architecture, data independence.
4	15-22 April	Database languages: DDL, DML, DCL. Database utilities, Data Models, Keys: Super, candidate, primary, unique, foreign
5	23-30 April	Entity relationship model: Concepts, mapping cardinalities, entity relationship diagram, weak entity sets, strong entity set,
6	01-07 May	aggregation, generalization, converting ER diagrams to tables
7	08-16 May	Database Design : Functional dependency, normalization (upto 3NF), data base recovery, database integrity, Definition and problems arising out of concurrency
8	17-23 May	Authentication, authorization, methods of implementing security. SQL: Basic SQL Query, Creating Table and Views
9	26-31 May	MST EXAM