

LESSON PLAN -2025-26 (Even Sem.)

Class & Subject: B.sc-2nd Sem. & B.Com 2nd Sem (Digital & Technological Solutions)

Name:- Dr Rajesh Dawar

Subject Code:- 23CSAX01VA01

Month	1st Week	2nd Week	3rd Week	4th Week
JAN.	Introduction to Computers, Role and Significance of Digital Technology	ICT and its Tools, Computer System and its working	Software and its types, Introduction to OS, functions of OS Assignment-1	Types of OS, Introduction to Algorithms and Flowcharts
FEB.	Introduction to Computer Networks, Principles, Models and Transmission Media	Concepts and Applications of Internet,www, Web browser, search engines, messaging, e-mail, social networking	Computer based information system, its significance and types Assignment-2	Introduction to e-commerce and digital marketing, its benefits and challenges Test-1
MAR.	HOLI Break	Overview of AI, Machine Learning and Deep Learning, Big Data, Data Science	Introduction to Internet of Things and Industrial Internet of things(IIOT)	Introduction to Block chain technology, Quantum Computing, Cloud computing and its service models.
APR.	Introduction to Digital India and e-governance, initiative, infrastructure, services and empowerment.	Introduction to Digital Financial Tools-UPI, Aadhar enabled Payment System, USSD, Credit/Debit Cards, e-wallets, Internet Banking, NEFT/RTGS, IMPS, Online Bill Payment and POS	Introduction to Cyber security, its threats and significance	Precautions, safety measure and tools for Cyber security.
MAY	Revision Test-2	--	--	--

LESSON PLAN -2025-26 (Even Sem.)**Class & Subject: B.Sc 6th Sem (Visual Basic Programming)****Name:- Dr Rajesh Dawar****Subject Code:- 6.1**

Month	1st Week	2nd Week	3rd Week	4th Week
JAN.	Introduction to VB, Difference between Visual and Non Visual Programming	Introduction to Object Oriented and Event Driven Programming Languages	VB Environment- Menu Bar, Tool Bar, Project explorer, Toolbox, Property Window, Form Designer, Form Layout, Immediate Window Assignment-1	Introduction to Event Driven Programming
FEB.	Basics of Programming- Variables, its declaration, conversion of data types of variables	User defined data types, Scope and Lifetime of variables, Constants in VB	Operators in VB, Various controls in VB Assignment-2	Message Box, Input box and Print Statement in VB Test-1
MAR.	HOLI Break	Decision making statements in VB	Looping statements in VB	Creating arrays in VB, Arrays of arrays
APR.	Introduction to General and event Procedures in VB, Introduction to functions in VB and its calling	Argument passing mechanism, optional arguments, Named arguments, functions returning custom data types	Working with Forms in VB, Adding multiple forms in VB, Hiding and showing forms, Load and Unload statements, form load event	Menu designing in VB, Database Programming in VB
MAY	Revision Test-2	--	--	--

LESSON PLAN -2025-26 (Even Sem.)**Class & Subject: BCA 2nd Sem****Name:- Dr Rajesh Dawar****Subject Code:- CC 105**

Month	1st Week	2nd Week	3rd Week	4th Week
JAN.	Introduction to OS, Evolution of OS	Components and Services of OS, Structure of OS	Types of OS, Concepts of Multi Programming AND Time sharing, Distributed and Real time Systems Assignment-1	OS Services and System calls, OS Generations
FEB.	Introduction to Process, different states of a Process, Process state transitions	Scheduling of a process, PCB, Concepts of Multi-threading, benefits of threads and its types	Introduction to process scheduling, scheduling objectives, Scheduling Algorithms and its performance evaluation Assignment-2	Introduction to process Synchronization, inter-process communication Test-1
MAR.	HOLI Break	Race Condition, Critical Section, , Mutual Exclusion	Semaphores and Monitors.	Introduction to deadlock, its characterization, deadlock prevention, avoidance, Bankers algorithm
APR.	Deadlock detection and Recovery, Introduction to memory management	Logical and Physical address map, swapping, fragmentation	Paging, Introduction to Virtual memory, Demand Paging, Page replacement Algorithms, Allocation of Frames and Thrashing	IO Management, Disk Structure and Disk Scheduling Algorithms
MAY	Revision Test-2	--	--	--

LESSON PLAN -2025-26 (Even Sem.)

Class & Subject: BCA 4th Sem (Computer System Architecture)

Name:- Dr Rajesh Dawar

Subject Code:- 24BCA403DS01

Month	1st Week	2nd Week	3rd Week	4th Week
JAN.	Introduction to Computer types- Analog and Digital, Digital Computer Organization and Architecture	Introduction to Number systems, Fixed and Floating point representation of numbers	Von Neuman Architecture of Computer, Bus Structure, Basic Concepts and types of Registers Assignment-1	Register Transfer Language, Data transfer between registers, Bus and Memory Transfer, Micro operations.
FEB.	Instruction Codes, Common Bus System Architecture, Instruction set and Instruction Cycle	Types of Instructions, Classification of Interrupts	Context Switching, Interrupt identification, Daisy chaining, Polling, Vectored Interrupt Assignment-2	Interrupt Cycle Test-1
MAR.	HOLI Break	Introduction to CPU, General Register Organization, Stack organization , Reverse Polish Notation	Instruction Formats	Addressing Modes, RISC and CISC Architecture
APR.	Introduction to memory hierarchy and Main Memory Technologies.	Cache memory-its characteristics, types of mapping, writing into cache, Cache Coherence	Peripheral Devices, IO Interface, Asynchronous data transfer Modes	Priority Interrupt, DMA and DMA Transfer
MAY	Revision Test-2	--	--	--

LESSON PLAN -2025-26 (Even Sem.)**Class & Subject: BCA 6th Sem (E-Commerce)****Name:- Dr Rajesh Dawar****Subject Code:- BCA-306**

Month	1st Week	2nd Week	3rd Week	4th Week
JAN.	Introduction to E-Commerce, Scope of E-Commerce	Impact of E-Commerce, E-commerce markets, Internet Commerce, e-commerce in perspective	Application of E-Commerce in Direct marketing and selling Assignment-1	Obstacles in E-Commerce Applications, Future of E-Commerce
FEB.			Assignment-2	Test-1
MAR.	HOLI Break			
APR.				
MAY	Revision Test-2	--	--	--

LESSON PLAN -2025-26 (Even Sem.)

Class & Subject: BCA 6th Sem (Object Technologies and Programming using Java)

Name:- Dr Rajesh Dawar

Subject Code:- BCA-307

Month	1st Week	2nd Week	3rd Week	4th Week
JAN.	Paradigm of Programming Languages	Evolution of OO Methodology, comparison of OOPS and Procedure Oriented Languages	Benefits of OOPS, Introduction to common OO Languages, Applications of OOPS Assignment-1	Introduction classes and objects, abstraction, Encapsulation, inheritance, method overriding, polymorphism
FEB.	Introduction to Java, features of Java, JVM	Data types and Variables in Java, operators, expressions, statements and arrays in java	Creating objects, assigning object variables, introducing methods, static methods in Java Assignment-2	Constructors, passing objects as arguments in java, returning Objects, method overloading, garbage collection, Finalize method Test-1
MAR.	HOLI Break	Introduction to packages, package naming, package accessibility	Using package members, implementing interfaces and abstract classes, extends and implement together.	Exception Handling in Java, types of exceptions in Java , throwing exceptions, writing exception subclass
APR.	Introduction to Multi threading, thread priorities, synchronization and interthread communication in java	IO Basics, stream classes, reading and writing to and from files	Transient and volatile modifiers, string handling in Java	String Buffer class and methods in Java
MAY	Revision Test-2	--	--	--

LESSON PLAN -2025-26 (Even Sem.)**Class & Subject: BCA 6th Sem (Introduction to .NET)****Name:- Dr Rajesh Dawar****Subject Code:- BCA-309**

Month	1st Week	2nd Week	3rd Week	4th Week
JAN.	Introduction to .NET	Building blocks of .net platform (CLR,CTS,CLS), features of .NET	.NET architecture, .NET platform, Assignment-1	Introduction to Namespace & type distinction, Objects in .NET, evolution of Web Development
FEB.	Class libraries in .NET, introduction to assemblies and Manifest in .NET	Meta Data & Attributes, Introduction to C#	C# data type, value types, reference types, default value, constants Assignment-2	Scope of variables, Boxing and Unboxing Test-1
MAR.	HOLI Break	Operators and expressions in C#, Decision making statements in C#	Looping statements, class, methods in C#	Constructors, Destructors, overloading of classes and methods & functions in C#
APR.	Method overriding, abstract class and methods	Sealed class and methods in C#, interfaces in C#	Exception and error handling in C#	Automatic memory management, Input and output in C#
MAY	Revision Test-2	--	--	--