GOVT. NATIONAL COLLEGE, SIRSA
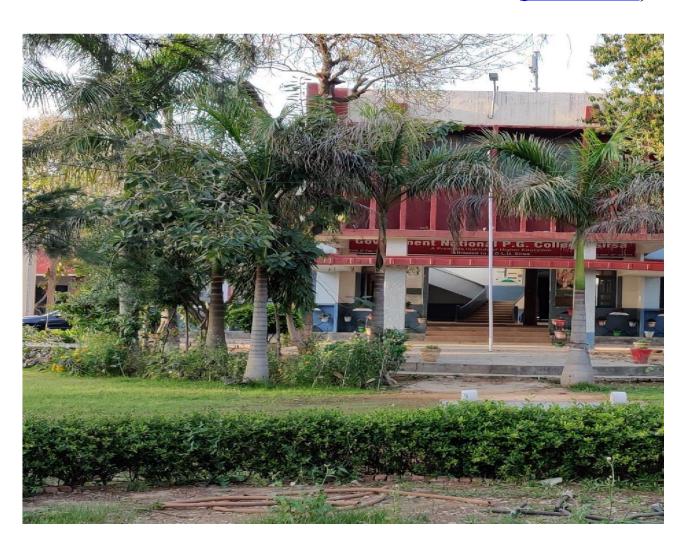## राजकीय नैशनल महाविद्यालय, सिरसा
B++ Grade, NAAC Accredited

Website: gncsirsa.edu.in,

LESSON PLAN 2025-26

GOVT. NATIONAL COLLEGE, SIRSA

LESSON PLAN

Name of the Asstt. Prof.: Paramjeet Kaur Session: 2025-26

Subject: Web Technologies Class: PGDCA 1st Sem.

Month	Week	Topics	Additional Events
August, 2025	2nd week	Introduction to Internet: Network need, types of N/w, History of Internet, World Wide Web: Introduction, Architecture, Difference between Internet and WEB, Principles of Web	Student's Evaluation via MCQs & short ans. Ques.
	3rd week	Basic Terms related to WWW Evolution and History of World Wide Web; Basic features; Web Browsers; Web Servers	
	4th week	Hypertext Transfer Protocol; Format, Working of HTTP, URLs, URI, IP address, Searching and Web-Casting Techniques;	
	5th week	Search Engines and Search Tools. Planning and designing your Web Site; Steps for developing your Site	
September, 2025	1st week	Choosing the contents; Home Page; Domain Names; Creating a Website; Website and its Categories	
	2nd week	Web Publishing: Hosting your Site; Internet Service Provider;	Student's Evaluation via MCQs & short ans. Ques.
	3rd week	Web Development: Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML Document structure;	
	4th / 5th week	HTML command Tags; Heading tags; Text styles; Text Structuring; Text colors and Background colors;	Class Assignment -1
October, 2025	1st week	Text Formatting, Page Layouts. Creating Links	MID TERM EXAM (Test)
	2nd week	Images; Inserting Graphics; Images as Hyperlinks; Ordered and Unordered lists;	Student's Evaluation via MCQs & short ans. Ques.
	3rd week	Table Creation and Layouts;	
		----------------------------DIWALI VACATIONS----------------------------	

	5th week	Frame Creation and Layouts	
November, 2025	2nd week	Working with Forms and Menus; Working with Radio Buttons; Check Boxes; Text Boxes.	Student's Evaluation via MCQs & short ans. Ques.
	3rd week	Revision/Practice of different tags of HTML by creation of Web pages and Web Site	
	4th week	Revision/Practice of different tags of HTML by creation of Web pages and Web Site	

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GOVT. NATIONAL COLLEGE, SIRSA

LESSON PLAN

Name of the Asstt. Prof.: Paramjeet Kaur   **Class: B.Sc. 5th Sem. Computer Sc. - "NT02"**

Subject: **Python Programming (CS-52(ii))**   **Session: 2025-26**

Month	Week	Topics	Additional Events
August, 2025	2nd week	Python Introduction, Need of Learning Python as Programming Language, Applications, Industries using Python, Step by Step demo of Installing Python, installing Visual Studio as IDE and Working with Python, Tokens	Student's Evaluation via MCQs & short ans. Ques.
	3rd week	Operators with examples, Data Types: Immutable and mutable DTs, Classification: Sequence Types: Strings and its operations with demo, Lists and its operations with demo	
	4th week	Tuples and its operations with demo, Mapping Types: Dictionaries and its operations with demo.	Coding exercises + Quiz
	5th week	Control Structures: Conditional Branching with different program examples, Looping with different program examples,	Lab exercises + Quiz
Sept., 2025	1st week	Custom Functions, Sequences, iteration and recursion.	
	2nd week	Modules And Packages, Overview of Python Standard Library.	Student's Evaluation via MCQs & short ans. Ques.
	3rd week	OOPS Concepts and Classes In Python with different program examples	
	4th / 5th week	Constructor, deconstructor, inheritance with different program examples	Class Assignment -1
October, 2025	1st week	Polymorphism, Exception handling: catching and raising exceptions, custom exceptions with different program examples	Class Test-1
	2nd week	Database programming.	
	3rd week	Numpy basics: Introduction, data types with different program examples	Lab exercises + Quiz
		---------------------------DIWALI VACATIONS----------------------------	

	5th week	Arrays: indexing, slicing, shape with demo	Student's Evaluation via MCQs & short ans. Ques.
Nov., 2025	2nd week	Iteration, join, split, search, sort, filter with demo.	Lab exercises + Quiz
	3rd week	Revision/Practice of different program examples	Student's Evaluation via MCQs of entire syllabus
	4th week	Revision/Practice of different program examples	

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GOVT. NATIONAL COLLEGE, SIRSA

LESSON PLAN

Name of the Asstt. Prof.: Paramjeet Kaur   **Class: B.Sc. 3rd Sem. - "PS01/LS01"**

Course: Introduction to Python   **Course Type: MIC**   **Course Code: BSC/MD/CS/3/MIC/201**

Session: 2025-26   **External exam: 35**

Month	Week	Topics	Additional Events
August, 2025	**2nd week**	Python Introduction,Compiler and Interpreter,Features and history of Python ,Need of Learning Python as Programming Language, Applications, Industries using Python,	Student's Evaluation via MCQs & short ans. Ques.
	3rd week	Step by Step demo of Installing Python, installing Visual Studio as IDE and Working with Python,Keywords and Identifiers, Comments: Purpose/use of comments, Single line comment/Multiline comment;	Lab session + Code review
	4th week	Variables: Declaration of Variables, Assign Values to Variables, Initialization, Reading, Variable naming restrictions.	Lab exercises + Quiz
	5th week	Python Data Types: Immutable and mutable DTs, Data Types Classification, Python Numbers (Integers, floating-point numbers, and complex numbers), Strings	Lab exercises + Quiz
Sept., 2025	**1st week**	Python Boolean data type;Type conversion	Code implementation + Debugging
	2nd week	Operators with examples, Operators: Arithmetic, Comparison/Relational Operators	Student's Evaluation via MCQs & short ans. Ques.
	3rd week	Operators: Logical operators, Increment Operators, Identity Operators, and Operators Precedence.	
	4th / 5th week	Conditional Statements: Python Control Flow Statement, Decision Making: Simple If Structure	**Class Assignment -1**
Oct., 2025	**1st week**	Conditional Statements: if-else structure, if elif structure, and nested If Structure with examples programs demo.	**Class Test-1**
	2nd week	Python Loop Statements: Python while loop, Python for loop, Python range() (with different program examples)	Student's Evaluation via MCQs & short ans. Ques.
	3rd week	Python Nested Loop Structures; Python Branching Statements – break, continue, pass.	
		-------------------------DIWALI VACATIONS----------------------------	

	5th week	Python Lists: Create Python Lists, Update Python Lists, Delete Elements from Python Lists	Student's Evaluation via MCQs
Nov., 2025	2nd week	Built-in Functions Methods for Python Lists and implement arrays.	Lab session + Code review
	3rd week	Python Strings: Working with Strings, Useful String Methods.with demo Revision/Practice of different program examples	
	4th week	Revision/Practice of different concepts/program examples	

Signature of Teacher

LESSON PLAN

Name of the Asstt. Prof.: Paramjeet Kaur   **Class:** B.Sc. 1st   Sem. - "PF01"

Course: Computer Fundamentals and Programming in C

Course Code: BSC/BA/CSE/MD/1/DSC/101   **Course Type:** DSC

Session: 2025-26   **External exam:** 35

Month	Week	Topics Covered	Additional Events/Remarks
Aug., 2025	2nd week	Introduction to C Language: Character Set, Keywords, Identifiers,	Subject was assigned to Mr. Bharat Bhushan Mehta Sir. It is assigned to me on 01-09-2025 after temp. transfer of BBM Sir to GC, Bhoriakhera.
	3rd week		
	4th week		
	5th week		
Sept., 2025	1st week	Introduction to Computer Systems: Definition, Characteristics, Block Diagram :Components of a Computer	Diagram analysis + Quiz
	2nd week	CPU, Memory, I/O Devices, Memory Types: Need of Memory	
	3rd week	Characteristics of Memory, Introduction to Primary and Secondary Memory. Primary vs Secondary, Compiler & Interpreter	Device comparison + Quiz
	4th week	Number Systems: Binary, Octal, Decimal, Hexadecimal + Conversions	**Class Assignment -1**
Oct., 2025	1st week	Structure of a C Program, Data Types, Constants, Variables, Type Casting	**Mid-Term Exam/Test**
	2nd week	Operators: Arithmetic, Relational, Logical, Precedence & Associativity	Lab practice + Evaluation
	3rd week	Control Structures: if, if-else, switch, loops (for, while, do-while)	
	--------------------------DIWALI VACATIONS----------------------------		
	5th week	Break, Continue, Goto Statements, Functions: Declaration, Definition, Actual and Formal Arguments, Recursion	Code walkthrough
Nov., 2025	1st week	Arrays: 1D Arrays – Declaration, Initialization, Access 2D Arrays – Matrix Operations, Traversal, Strings	
	2nd week	Introduction to Pointers: Declaration, Usage, Call by Value/Reference	Pointer practice +

| | | | Concept mapping |
| | **3rd week** | Pointers and Arrays – Interrelation, Memory Access | |

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LESSON PLAN

Name of the Asstt. Prof.:   Paramjeet Kaur   Class: BA/BCOM/BBA 1st Sem.

Course Name– Fundamentals of Computer   Course Type: MDC-I

Course Code: BSC/BCOM/BA/CSE/MD/1/MDC/101

Session: 2025-26   External exam: 35

Month	Week	Topics Covered	Activities & Assignments
Aug., 2025	2nd week	Introduction to Computers: Definition, Characteristics	Subject was assigned to Ms. Mandeep Kour. It is assigned to me on 25-08-2025 after introduction of MDC of 3rd Sem.
	3rd week	History & Generations of Computers	
	4th week	Types of Computers: Analog, Digital, Hybrid Applications of Computers	
	5th week	Computer Hardware: Basic Components of a Computer with Block Diagram	Icebreaker quiz + Lecture
Sept., 2025	1st week	Computer Hardware: CPU, Memory, I/O Devices	Hardware demo + Labeling exercise
	2nd week	Input Devices: Keyboard, Mouse, Scanner, Barcode Reader and many other	Device comparison + Quiz
	3rd week	Output Devices: Monitor, Printer, Projector and other	
	4th week	Storage Devices: HDD, SSD, Pen Drive, CDs/DVDs	Class Assignment -1
Oct., 2025	1st week	Software Types: System vs Application, Utility Software	Mid-Term Exam/Test
	2nd week	Operating Systems: GUI vs CLI, Functions, Installing Basic Drivers	Software classification task and Creative lab assignment
	3rd week	System Settings: Date/Time, Display :Configuring Display Settings, Desktop Background & Icons	Practice lab + Configuration task
	--------------------------DIWALI VACATIONS-----------------------------		
	5th week	Basic Tools: MS Paint, Notepad, WordPad	Creative lab assignment

Nov., 2025	**1st week**	File Management: Create, Rename, Organize folders	File operations lab & Folder structure design
	2nd week	Folder Management: Copy, Move, Delete files	
	3rd week	Review & Integration: Hardware + Software + OS	Mock test + Concept mapping

Signature of Teacher