

Diploma in Programming (DP) – Syllabus (2 Years / 4 Semesters)

Semester – I

S. No.	Paper Numerical Unique	Class & Papers	Paper Name / Subject
1	8101	1DP1	Fundamentals of IT & Computers
2	8102	1DP2	Operating System & Office Automation
3	8103	1DP3	Programming in C
4	8104	1DP4	Internet & Web Basics

Course Details:

- Computer basics, hardware & software, number systems.
 - Windows/Linux, MS Office tools (Word, Excel, PowerPoint).
 - C programming – operators, control statements, functions, arrays.
 - Internet, email, HTML basics.
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Semester – II

S. No.	Paper Numerical Unique	Class & Papers	Paper Name / Subject
1	8201	2DP1	Data Structures Using C
2	8202	2DP2	Database Management System (DBMS)
3	8203	2DP3	Web Designing (HTML, CSS, JavaScript)
4	8204	2DP4	Project / Lab Practical

Course Details:

- Arrays, stacks, queues, linked lists, trees, graphs.
 - RDBMS concepts, SQL queries, forms & reports.
 - HTML, CSS, JavaScript for interactive websites.
 - Mini project using programming & DBMS concepts.
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Semester – III

S. No.	Paper Numerical Unique	Class & Papers	Paper Name / Subject
1	8301	3DP1	Object Oriented Programming with C++
2	8302	3DP2	Java Programming
3	8303	3DP3	Computer Networks
4	8304	3DP4	Software Engineering

Course Details:

- OOP concepts, classes, objects, inheritance, polymorphism.
 - Core Java – basics, applets, exception handling, file handling.
 - Networking basics, topology, TCP/IP, OSI model.
 - Software development life cycle, testing, documentation.
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Semester – IV

S. No.	Paper Numerical Unique	Class & Papers	Paper Name / Subject
1	8401	4DP1	Advanced Java / Python Programming
2	8402	4DP2	Web Technologies (PHP, MySQL)
3	8403	4DP3	Cloud Computing & Cyber Security Basics

S. No.	Paper Numerical Unique	Class & Papers	Paper Name / Subject
4	8404	4DP4	Major Project / Internship

Course Details:

- Python or Advanced Java concepts, GUI programming.
- PHP, MySQL, server-side scripting for web apps.
- Introduction to cloud services, cyber threats & prevention.
- Major project / internship applying all programming skills.