



# SIP<sup>SM</sup>

## SMART I.T. PROFESSIONAL

Duration: 24 Months



### The Best Program For Engineering Students<sup>TM</sup>

Smart IT Professional (SIP) program is scientifically designed for B.Sc. (IT), Engineering and BCA students who want to make a professional career in software development. SIP has four levels, mainly system programming, database management, website development with Java and .Net technology, Mobile App Development. The individual can start its own operations in software development after successful completion of the said course. SIP is having modular training and examination pattern which would help the student to gain maximum knowledge. After successful completion of the program the student has an option to get job assistance from Raj if required.

**Career Opportunities:** Programmer, Trainers, Desktop Application Developer, Web Application Developer, Database Administrator, Project Manager, System Analyst, Android App Developer. Work as a Freelancer. SIP gives career readiness in IT Industry.

### Program Contents

#### Semester -1 Certificate Program in Desktop Application Development

<u>C Programming</u>	<u>C++ Programming</u>	<u>C# Programming</u>	<u>Python Programming</u>	<u>SQL Server</u>
Introduction to C	Introduction to C++	Introduction to C#	Basic Python Syntax	Introduction to SQL Server
Data Types	OOPS Concepts	Variables and Data Types	Data Types & Operators	Databases and types
Expressions and Operators	Constructor	Operators and Expressions	Decision Making & Looping	Using DDL / DML
Control Statements	Functions	Methods in C#	List / Tuples / Dictionary	Simple Queries
Switch	Operators	Arrays and Strings	Functions and Modules	Sub-Queries
Loops	Classes	Structures and Enumerations	Files Input / Output	Queries using Joins
Arrays	Conversion Types	Classes and Objects	Exceptional Handling	Using Aggregate Functions
Strings and Integer	Abstract Class	Input / Output Operations	Class and Object	Constraints
Functions	File Input / Output	Errors and Exception	GUI Programming	Working with Views
Pointers	Class Templates	Multithreading	Database Access	Stored Procedures
Data Structures	Exception Handling	Properties	Multithreading	Triggers
File Handling	Data Structures			Import / Export

#### Semester -2 Certificate Program in Web Technology

<u>HTML5</u>	Working With Images	<u>jQuery</u>	Scopes	Error and Exception Handling
Attributes / Formatting / Colors	Cascading Style Sheet(CSS)	jQuery Concept	Filters	String and Expression
Text Links	Using Hyperlinks	Library / Selector	Services	Working with File
Lists /Tables/ Frames/Forms	Using Tables	Events / Effects	Http	Authenticating Users
Input Types/Input Attributes	Using Forms	Dimensions	<u>PHP</u>	HTML Forms in PHP
Form Elements	Using Frames	Traversing Method	Configuring PHP	<u>MySQL</u>
HTML Media/Graphics/SVG	Publishing a Site	<u>AngularJS</u>	Using PHP Code in Web Pages	Configuring PHP with My SQL
Geolocation/ Drag & Drop/ Web Storage	Web Hosting	AngularJS Intro	Data Types / Identifiers / Variables	Storage Engine and Data Types
<u>Dreamweaver</u>	<u>JavaScript</u>	Modules	Constants / Expressions	Database and Tables
Introduction	HTML with Java Script	Directives	Control Structure	Stored Routines
Setting up a site	Operator / Control Statement	Model	Functions / Array	Triggers / Views / Queries
	Functions / Events / Cookies	Data Binding	OOPS in PHP	Import and Export
	Validation / Error Handling	Controllers		SQL Injection

#### Semester -3 Certificate Program in Web Application Development

<u>Core Java</u>	<u>Advance Java</u>	<u>ASP.Net</u>
Introduction to Java	Java Applets / Event Handling	Introduction to ASP
Java Basic Syntax	JDBC / Swings / Components	Event Handling
Data Types and Variables	Menu and Image	Server Side / Controls
Expressions / Operators	JSP Architecture	Client Side / Controls
Functions / Classes	Working with tags	Directives / Validators
Exception Handling	Implicit Objects	Database Access
Loops / Strings / Arrays	Working with Forms	ADO.Net
Interfaces and Packages	Introduction to Servlet	File Uploading
Threading	Processing HTML Form	Add Rotators/ Calendar
Files Input / Output	HTTP Request / Responses	Multi Views
Inheritance / Polymorphism	Cookies / Session Tracking	Panel Controls

#### Semester -4 Certificate Program in Mobile App Development

<u>Android Programming</u>	Application Source Code
Introduction to Android	Server Code
Android Components	Androids Bluetooth Capabilities
Android SDK	Sensor Manager
Introduction to Eclipse	Managing Contacts.
User Interface	Android Web Development
Storing and Retrieving Data	Introduction to AppWidget
Networking and Web Services	Introduction to Site Monitor
Telephony	AppWidget Data Handling
Notification and Alarms	Android Native Development Kit
Graphics and Animation	Building the JNI Library
Multimedia	Building the User Interface
Location Services.	Integrating the NDK into Eclipse
First Android Application	Introduction to Android Studio

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