



# SIP<sup>SM</sup>

## SMART I.T. PROFESSIONAL

Duration: 18 Months



**The Best Program  
For Engineering Students™**

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 three levels, mainly system programming, database management, website development with Java and .Net technology. 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, Work as a Freelancer. SIP gives career readiness in IT Industry.

### Program Contents

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

##### C Programming

Introduction to C  
Data Types  
Expressions and Operators  
Control Statements  
Switch  
Loops  
Arrays  
Strings and Integer  
Functions  
Pointers  
Data Structures  
File Handling

##### C++ Programming

Introduction to C++  
OOPS Concepts  
Constructor  
Functions  
Operators  
Classes  
Conversion Types  
Abstract Class  
File Input / Output  
Class Templates  
Exception Handling  
Data Structures

##### Visual Basic Programming

Introduction to Visual Basic  
Windows Event  
Controls and Properties  
Visual Basic Data Types  
GUI Controls  
Interacting with Files  
OOPS with Class Modules  
Interacting with Data  
Understanding ADO  
Multi Dimensional Arrays  
Creating ActiveX Controls  
Creating DLLs and EXEs

##### SQL Server

Introduction to SQL Server  
Databases and types  
Using DDL / DML  
Simple Queries  
Sub-Queries  
Queries using Joins  
Using Aggregate Functions  
Constraints  
Working with Views  
Stored Procedures  
Triggers  
Import / Export

##### Python Programming

Basic Python Syntax  
Data Types & Operators  
Decision Making & Looping  
List / Tuples / Dictionary  
Functions and Modules  
Files Input / Output  
Exceptional Handling  
Class and Object  
GUI Programming  
Database Access  
Multithreading

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

##### HTML5

Attributes / Formatting / Colors  
Text Links  
Lists /Tables/ Frames/Forms  
Input Types/Input Attributes  
Form Elements  
HTML Media/Graphics/SVG  
Geolocation/ Drag & Drop/  
Web Storage

##### Dreamweaver

Introduction  
Setting up a site  
Working With Images  
Cascading Style Sheet(CSS)  
Using Hyperlinks  
Using Tables  
Using Forms  
Using Frames  
Publishing a Site  
Web Hosting

##### Java Script

HTML with Java Script  
Operator / Control Statement  
Functions / Events / Cookies  
Validation / Error Handling  
jQuery  
jQuery Concept  
Library / Selector  
Events / Effects  
Dimensions  
Traversing Method

##### PHP

Configuring PHP  
Using PHP Code in Web Pages  
Data Types / Identifiers / Variables  
Constants / Expressions  
Control Structure  
Functions / Array  
OOPS in PHP  
Error and Exception Handling  
String and Expression

Working with File  
Authenticating Users  
HTML Forms in PHP  
MySQL  
Configuring PHP with My SQL  
Storage Engine and Data Types  
Database and Tables  
Stored Routines  
Triggers / Views / Queries  
Import and Export  
SQL Injection

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

##### Core Java

Introduction to Java  
Java Basic Syntax  
Data Types and Variables  
Expressions / Operators  
Functions / Classes  
Exception Handling  
Loops / Strings / Arrays  
Interfaces and Packages  
Threading  
Files Input / Output  
Inheritance / Polymorphism

##### Advance Java

Java Applets / Event Handling  
JDBC / Swings / Components  
Menu and Image  
JSP Architecture  
Working with tags  
Implicit Objects  
Working with Forms  
Introduction to Servlet  
Processing HTML Form  
HTTP Request / Responses  
Cookies / Session Tracking

##### C# Programming

Introduction to C#  
Variables and Data Types  
Operators and Expressions  
Methods in C#  
Arrays and Strings  
Structures and Enumerations  
Classes and Objects  
Input / Output Operations  
Errors and Exception  
Multithreading  
Properties

##### ASP.Net

Introduction to ASP  
Event Handling  
Server Side / Controls  
Client Side / Controls  
Directives / Validators  
Database Access  
ADO.Net  
File Uploading  
Add Rotators/ Calendar  
Multi Views  
Panel Controls

##### VB.Net

Introduction to VB .Net  
Data Types / Variables  
Constants / Statements  
Operators / Decision Making  
Loops / Strings / Arrays  
Date and Time  
Collections and Functions  
Classes & Objects  
Exception / File Handling  
Dialog Boxes / Forms  
ADO .Net

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