



SMART I.T. PROFESSIONAL

Duration: 24 Months



The Best Program For Engineering StudentsTM

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 Web 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 . Work as a Freelancer. SIP gives career readiness in IT Industry.

Program Contents

Semester -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	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	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 Introduction to Numpy Introduction to Panda Database Access Multithreading	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
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Semester -2 Certificate Program in Full Stack Web Development

HTML 5 Attributes / Formatting / Colors Text Links Lists /Tables/ Frames/Forms Input Types/Input Attributes Form Elements HTML Media/Graphics/SVG Geolocation/ Drag & Drop/ Web Storage CSS 3 Java Script HTML with Java Script Operator Control Statement Functions / Events / Cookies Validation / Error Handling	WordPress Introduction Themes & Plugins Layout and Editing Color Scheme Creating a Menu, / Adding Pages Launching Your Website Node.js Nodejs framework Work with shrinkwrap HTTP server with Nodejs Multiprocessing in Nodejs Application using Socketio Unit and endtoend testing Work with Node projects Buffer streams and events Master Expressjs	React Introduction Components and Props State and Lifecycle React Hooks Handling Events Working with Forms Conditional Rendering Lists and Keys Styling in React.js React Router API Integration AngularJS AngularJS Intro Modules Directives	Model Data Binding Controllers Scopes Filters Services Http 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 MySQL Storage Engine and Data Types Database and Tables Stored Routines Triggers / Views / Queries Import and Export SQL Injection
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Semester -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 Libraries of Python File Uploading Add Rotators Calendar Multi Views Panel Controls
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Semester -4 Certificate Program in Data Analytics

Power BI Introducing PowerPivot Working with Data Enhancing the Data Model Analysing Data & Visualisation Data Analysis Expressions (DAX) Publishing and Managing PowerPivot Models Importing Data with Power Query Analysing Data with Power View and Power Map Tableau (Optional)	R language Fundamentals of R Control Statements Arrays / Functions in R Data Visualization in R STRINGR Package Matrices Strings Data Frames in R Vectors R Factors
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