CERTIFICATE IN FULL-STACK DEVELOPMENT- .NET

DURATION: 240 Hours

TOTAL CREDITS: 8

COURSE SYLLABUS

Objective

The **CERTIFICATE IN FULL-STACK DEVELOPMENT - .NET** teaches the students the core concepts of both the frontend and backend programming. On completing the course, the student will be capable to build dynamic, rich web sites and web applications using compiled language C#.

Exit Profile

- Complete Knowledge in ASP.NET

- Front end development

- Designing level knowledge

Career Path

- ASP.NET Full-Stack Developer

- Frontend developer

- UI Designer

Course Outline

Course Name:	CERTIFICATE IN FULL-STACK DEVELOPMENT- .NET	Duration:	240 H
Module	Topic	Dur.	Total Dur.
MODULE - 1	Introduction to UI/UX designing	6 H	120 H
	HTML	18 H	
	CSS	18 H	
	JavaScript	30 H	
	JQuery	30 H	
	Bootstrap	18 H	
MODULE -2	ASP.NET	60 H	120 H
	SQL Server Database	30 H	
	Crystal Reports	18 H	
	Introduction to Cloud Computing , Git & Github	12 H	

Course in Detail

MODULE - 1

INTRODUCTION TO UI/UX DESIGNING

- HTML

- CSS

- JavaScript

- JQuery

- Bootstrap

- Core Java Programming

- RDBMS -My SQL Server

- JDBC

- Servlets

- JSP

- Spring Frameworks

- Hibernate

- Introduction to Cloud Computing, GIT & GITHUB

HTML

- Introduction

- Building Blocks of Web Frontend

- Introduction To HTML

- Basic HTML TAGS

- Advanced HTML Tags & concepts.

CSS

- Introduction to CSS

- CSS Basics

- CSS Advanced

JAVASCRIPT

- Introduction to DHTML

- Javascript Basics

- Javascript Advanced

- Document Object Model

- Manipulating DOM using JS

- DOM Events

JQUERY

- JQuery Basics

  - What is JQuery?

  - Adding JQuery to a web page

  - JQuery Syntax

  - JQuery Selector

  - JQuery Events

- JQuery Advanced

  - HTML Manipulations

  - Effects

  - Traversing

  - Plugins

BOOTSTRAP

- What is Bootstrap?

- Adding bootstrap to your projects.

- Different predefined Element styles

- The Grid System

- Forms

- Templates

MODULE – 2

ASP.NET

- Web Programming Introduction

- Introduction to ASP

- ASP.NET Introduction & Sample Programs

- Validation Controls

- ASP.NET Architecture

- Page Navigation Options

- Creating a Layout Using Master Pages

- User Control

- Creating Virtual Directory & Web Application

- Authentication & Authorization

- AJAX.NET

- Session

- Cookies

- Working with IIS, Creating Virtual Directory

SQL SERVER DATABASE

- SQL RDBMS Concepts

- SQL Data Types

- SQL Syntax

- SQL Operators

- SQL Joins

- Views

- Triggers, Cursors

- Stored Procedure

- SQL Date Functions

- SQL Useful Functions

- SQL Sub Queries

- Database Backup & Restore

CRYSTAL REPORTS

- Getting started with Crystal Report

- Sorting and Grouping

- Using Formulas

- Making Your Reports Visually Appealing

- Using Sections and Areas

- Viewer Interaction with Parameter Fields

- Reporting from SQL Databases

- Crystal Reports with ASP.NET

- Reporting Need in the application

- Crystal Reports – Reporting Tool

- Different ways to create Crystal Reports

INTRODUCTION TO CLOUD COMPUTING, GIT & GITHUB

- What is cloud computing?

- Working of cloud Computing

- Advantages of Cloud Computing

- What is Git and Gitlab?

- Installing Git

- Git File Management

- Branching

- Pull Requests

- Common Workflows