FUTURE PROOF LEARNING - NEP ALIGNED

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CERTIFICATE IN FULL-STACK DEVELOPMENT- React

DURATION: 240 Hours

TOTAL CREDITS: 8

COURSE SYLLABUS

Objective

Certificate in Full-Stack Development- React aims to teach the core concepts of both the front-end and back-end programming, to get familiar with the latest web development technologies like React, React Native, learn all about SQL databases and use them as the back-end for React Applications

Exit Profile

- Expertise to develop web applications using classic React JS

- Expertise to develop mobile applications using React Native

- Expertise in Database Operations and MySQL

Career Path

- Full-Stack Web Developer - React

- Frontend developer -React

- Back-End Developer -React

- Mobile Application Developer

Course Outline

Course Name:	CERTIFICATE IN FULL-STACK DEVELOPMENT- REACT	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	React JS	30 H	120 H
	Mobile Application Development using React Native	30 H	
	RDBMS - SQLITE	30 H	
	SQLite as Back-end for React Applications	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

REACT JS

- Introduction

- Basic Architecture

- Creating React Applications

- JSX

- Working With List and Conditionals

- Styling React Components & Elements

- Working With State and Props

- Debugging In React App

- Rendering Lists

- Event Handling In REACT

- Diving Deeper into Components & React Internals

- Working With Forms

- Routing With React Router

- Just REDUX

- Immutable for Immutable Data structures

- Reaching out to The Web (Http Ajax)

- React REDUX

- Unit Testing in REACT

- Server-Side Rendering with React

MOBILE APPLICATION DEVELOPMENT USING REACT NATIVE

- React Native Basics

- Environmental Setup

- Workflow

- Design

- Interaction

- Inclusion

- Performance

- Javascript Runtime

- Connectivity

- Native Modules

- Native Components

RDBMS - SQLITE

- Overview

- Installation

- Commands

- Syntax

- Data Types

- Database Operations

- Tables

- Inserting Data to Tables

- Queries

- Operators

- Expressions

- WHERE Clause

- AND & OR Clauses

- UPDATE Query

- DELETE Query

- LIKE Clause

- LIMIT Clause

- ORDER By Clause

- GROUP By Clause

- HAVING Clause

- DISTINCT Keyword

- Joins

- Constraints

SQLITE AS BACK-END FOR REACT APPLICATIONS

- Install React Native packages

- Implementing a datastore service

- Using the db service

- Loading data

- Adding an item

- Deleting an item

- Filtering data with WHERE and using variables

- Handling common SQLite errors in React Native

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