

FULLSTACK SOFTWARE DEVELOPMENT

6 Months Curriculum

Overview



Our fullstack program is a 6 month long hands-on, in-depth and instructor-led training, structured to help you build a successful career in web development. With this program you will be equipped with the requisite skills needed to build both functional and usable websites and mobile apps.

The program is designed to equip you to take up jobs in the industry almost as soon as you're done. Our industry expert instructors will guide you through the intricacies of design thinking, the methodologies of crafting the visual look and feel of websites, and the behind the scene infrastructure.

You will also learn the agile methodology and its outworking in the developmental processes of projects.

You will learn all these in 6 successive months; you'll take frontend and Product design in the first semester, while you'll take backend and agile project management in the second semester.

Prerequisite

- Understanding of basic computer functionalities.
- A Laptop (Minimum recommendation: 8GB RAM & Corei5).
- 6 Months dedicated to learning and building a career in tech.



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SECTION 1

PRODUCT DESIGN (UI/UX)

12 weeks Curriculum
(Micro Diploma)

Introduction to UI/UX, Mobile and Web Design,
Wireframing and Prototyping

About this Course



Product Design is a skill applicable across all products and industry domains. The desire to create great experiences for users is one of the reasons the skill is in high demand. In this program, we will help you learn the intricacies of crafting experiences that leave users addicted to your products.

PRODUCT DESIGN (UI/UX)

1

Welcome &
Introduction

2

Introduction To
User Experience

3

Understanding
User Experience

4

Wireframing &
Prototyping

5

User Interface Design

Principles Of Design

6 & 7

Application Of Design
Tool & Principles

8 & 9

Designing For Mobile

10 & 11

Designing For Web

12

Feedback & Project

SECTION 2

FRONTEND WEB DEVELOPMENT

WITH REACT JS

12 weeks Curriculum
(Micro Diploma)

Introduction to Computer Science, HTML,
CSS, Web tools, Git, and Javascript, ES6, React

Overview

FRONTEND



ABOUT THIS COURSE

With this course, you will learn the skills and tools you need to build functional websites that users can engage with to solve their problems.

At the end of the course duration, you should have attained a high level of competence in the concepts of web development and what building great websites entails.

SKILLS TO MASTER

HTML, CSS, JAVASCRIPT, REACT, GIT/GITHUB

PRE-REQUISITES

This course is suitable for people who have little or zero knowledge about programming or how the web works.

However, participants of this program must understand the basic functionalities of computers.

FRONTEND SOFTWARE DEVELOPMENT

1

Introduction to
Web Development/HTML

Introduction to HTML

2

Styling HTML
Web Pages

Overview of CSS

3

Intermediate CSS
Crafting responsive
layouts

4

Bootstrap and
Responsive Design

Introduction to
Bootstrap

5

Javascript
Fundamentals and DOM

Introduction to Javascript

6

Javascript
Fundamentals
and DOM (ii)

Javascript objects
and Methods

7

ES6 and Javascript
Modules

New Variables — Creation,
Updating & Scoping

8

Project week

9

React
Introduction to REACT

10

React - (ii)
Single Page
Applications (SPAs)
with React

11

React (iii)
CSS files in React

12

React (iv)
Using the Switch Tag

FINAL/CAPSTONE PROJECT

This project provides the student with the opportunity to use the knowledge they have gained all through the course in solving a given problem.



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SECTION 3

BACKEND WITH PYTHON DJANGO

12 weeks Curriculum
(Micro Diploma)

Build & deploy robust web applications using Django.
Creating safe web applications using Django's security implications.

About this Course



In this course, you will learn how to build a complete web application using Python Django framework. Whether you are a beginner or an experienced developer, you will find the course quite easy to understand.

By the end of the course, you will be able to build any category of website with your skill. You should be able to start building structures for your own websites almost immediately.

BACKEND SOFTWARE DEVELOPMENT

1

Introduction to Python

2

Data Structures &
Looping Constructs

3

Functions & Methods

4

OOP

Examination:
Build a Python Project

5

Introduction to Django

6

Django Database
Models class

7

Django and REST APIs

8

Front-End
development tools

9

Django Templates

10

Deploying a
Django Project

11 & 12

Personal Project
& Graduation

SECTION 4

AGILE PROJECT MANAGEMENT

Overview

AGILE PROJECT MANAGEMENT



In this course you will be taught fundamental agile concepts to enhance your software development skills. You will explore the benefits of agile software development for your development team, your end users, and your organization as a whole.

AGILE PROJECT MANAGEMENT

1

History of Software
Project Management

2

Agile Fundamentals

3

Requirements
and Planning

4

Scrum

5

Going Agile
with Atlassian

6

XP

7

Final thoughts on the
Software Development
Lifecycle (SDLC)

8

Final Project

FINAL/CAPSTONE PROJECT

Students will build 3 different projects in these 6 Months.
They will also create a portfolio that they can use to land their first gig.