React Native

Description

A framework for building native mobile apps.

Expectations and Goals

The course is designed for those who are interested in developing mobile apps irrespective of the mobile platform. If one having prior knowledge of web designing will be an added advantage. The basic goal of the course is to give the trainees a hands-on experience to build mobile app and to run the app in the real device.

Prerequisites

There is no such prerequisites. But the following knowledge will help the trainee to learn faster.

- Knowledge of HTML, CSS
- Javascript / ReactJs

Course Schedule

Module No	Module	Topic	Hours
1	Getting started	• Need of mobile Apps • Different kinds of App • Discussion of different technologies and framework	0.3 hrs
2	Recap of the JavaScript/React JS	• JavaScript and its basics • Different data types and uses • OOPs features • What is React? • Implementation of different forms	2 hrs
3	Introduction to React Native	• What id React Native? • How it works? • Differences between RN and web	0.3 hrs
4	Installation of the Software	• Steps to install the software and additional tools	2 hrs
5	React Native Basics and Elements	• Way to create project and to run in the system • Use of different components • Styles and event handling • Use of native components and	8 hrs

		debugging • Installation of react native elements and linking • Use of different elements • Use of icons and to configure them	
6	Navigations	• What is navigation • Installation of navigators and way to link them • Navigations, routing and screens and custom components building • Deploying them	2 hrs
7	Handling User Input	• Use of different user inputs • Its implementation and validation • Error handling	1 hrs
8	Data and Network	• Installation of server • Http Request • Firebase • User authentication • Fetching and storing of data	2 hrs
9	Camera and Multimedia	• Installation of camera and multimedia component • Use of camera with platform specific codes • Handling multimedia support • Accessing and storing local device files	1 hrs
10	Maps and Location	• Configuration of Google Map • Its implementation and viewing • Accessing location	0.3 hrs
11	Deployment	• Steps to generate file for Android and IOS • Installing into real device	0.3 hrs
12	Project	• Develop an app and run in real device	20 hrs