
Short Term Training

Course Name : **Dynamic Front End Web Development using JavaScript**
Duration : 4 Weeks/40 Hrs. (Theory: 16 Hrs. & Practical: 24 Hrs.)
6 Weeks/60 Hrs. (Theory: 16 Hrs., Practical: 24 Hrs. & Project: 20 Hrs.)
Prerequisite : Basic knowledge of HTML, CSS
Eligibility Criteria : Diploma/BTech in CS/IT/ (Pre-final year/Final year/Passout candidates)

Objective : The objective of the course is to equip a student with necessary skills as per following job role.

- User Interface (UI) Designer
- Web Designer
- Web Publication Assistant
- Front-end Developer

Topics/Units :

1. **Quick Review of following:** HTML5 , CSS3 , Bootstrap4
2. **Introduction to JavaScript:** Variable and keywords , Operators and JavaScript Statements , Conditional statements ,Loops ,Arrays ,Functions , Object and methods
3. **How JavaScript works behind scenes:** Execution Contexts in Detail Creation and Execution Phases and Hoisting , Scoping and scope chain , ‘this’ keyword
4. **About DOM manipulation:** Create a project using above knowledge and DOM manipulation
5. **Advanced JavaScript objects and functions:** Object Inheritance and the Prototype Chain , Creating Objects Function Constructors , First Class Functions Passing Functions as Arguments ,Immediately Invoked Function Expressions (IIFE) , Closures , Project using above knowledge: Budget App project

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