JavaScript Course Module (Level 1)

Total Module: 23

Total Class : 34 (approximate)

Class time (Tuesday & Thursday)

Course Schedule:

Module No	Topic
1.	• Introduction to programming (Procedural and OOP base). • Introduce some programming language. • Introduce about access file directory using linux command and also open VS code by using command. • What is JavaScript. • How JavaScript Execute. • Why JavaScript. • History of JavaScript. • Environment setup for javaScript
2.	• Introduce to Variable • Declaring, defining variable and value assign. • Working with variable.
3.	• Operator.
4.	• Operator precedence. • Comment in programming. • Escape Notation in programming. • Template literal.
5.	• Data types.
6.	• Type Conversion.
7.	• Introduce to Number system. • Binary to all number system conversion (both way). • Ocatal to all number system conversion (both way). • Hexa to all number system conversion (both way). • Decimal to all number system conversion (both way). • Hexa to Decimal conversion with javaScript. • Octal to Decimal conversion with javaScript.

8.	• Math function. • Math.E • Math.PI • Math.abs • Math.ceil • Math.floor. • Math.round. • Math.max. • Math.min • Math.pow. • Math.sqrt. • Math.random.
9.	• Introduce to Date Methods –
10.	• Introduce to If else statement.
11	• Introduce to Switch statement.
12.	• Introduce to GIT. • What is GIT. • Difference between GIT and GITHUB OR GITLAB • GIT Architecture • Discuss about git command.
13.	• Introduce to Loop. • While loop. • Do… while loop. • For … loop.
14.	• Introduce to Function. • Function expression. • Function expression and declaration. • Anonymous function. • Introduce to Arrow function. • Default argument of function. • Rest Parameter of function. • Introduce to call back function.
15.	• Introduce to Array. • Accessing array element. • Introduce to Array destructure. • Array spread operator.

16.	• Some Common method of array. • unShift(). • shift(). • concat (). • push(). • pop(). • join (). • sort(). • isArray (). • copyWithin (). • Every (). • fill (). • filter (). • find (). • findIndex (). • form (). • reduce (). • flat (). • map (). • forEach (). • slice (). • delete.
17.	• String. • Lexicographic system. • Some String methods. • Concat() • charAt() • substring() • toUpperCase() • toLowerCase() • startWith() • endWith() • indexOf() • lastIndexOf() • subStr() • replace() • length() • include()

18.	• Introduce to Object. • Adding, Modifying and Delete properties. • Special key name and square bracket properties. • Property type. • Dynamic property access. • Understanding chaining (property and method)
19.	• Object destructure • Object spread operator. • Check property existence (hasOwnProperty or optional chaining).
20.	• Object Method. • Object.keys(). • Object.value(). • Object.entries(). • Object.is().
21.	• Introduce to JSON. • Discussion about – • JSON.stringyfy() • JSON.parse().
22.	• Advance Function. • Pure function. • Impure function. • Impure VS Pure function. • Factory function. • First class function. • Higher order function. • Unary function. • Currying function. • Self invoked function. • Function pass by value and pass by refferance.
23.	• Advance Loop. • For…. In loop. • For …. Of loop.