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| **JavaScript Syllubus** | | | | |
|  |  |  |  |  |
| 1 | Revision of HTML CSS AND BOOTSTRAP | | | |
| 2 | Introduction of Javascript | | | |
| 3 | Difference between scripting language and programming language | | | |
| 4 | Why Javascript ? | | | |
| 5 | Introduction of EcmaScript | | | |
| 6 | Basics of DOM and BOM | | | |
| 7 | Tokens (Constant | variable | keywords | identifiers | seperators | operators) | | | |
| 8 | Datatypes | | | |
| 9 | Operators in Javascript | | | |
| 10 | Basic Examples based on basic concepts and operators | | | |
| 11 | Type Coersion | | | |
| 12 | Some example based on methods (toFixed, toPrecision, parseInt etc) | | | |
| 13 | Javascript PopUs (Javascript Dialog boxes) | | | |
| 14 | Control statements (All the types) | | | |
| 15 | Addition loops (for in, for of, forEach) | | | |
| 16 | Types of Error | Hoisting | | | |
| 17 | Introduction to Function | Types | Why | Advantages | | | |
| 18 | Variable function | Lambda function | Immediately invoked function expression | | | |
| 19 | Introduction to events | | | |
| 20 | Mouse/Click Event | Key Event | Form Event | Document/Window Event | | | |
| 21 | Validation | Regular Expression | | | |
| 22 | Difference between let const and var | | | |
| 23 | Prototype | | | |
| 24 | Introduction to Array | Methods | Types of Array | | | |
| 25 | Introduction to object | Array of object | Nested objects | | | |
| 26 | JSON and XML | JSON String | | | |
| 27 | Introduction and examples on Ajax | methods & properties | | | |
| 28 | Spread Operator | Array Destructuring | Object Destructuring | Rest Parameter | | | |
| 29 | Asynchronous and Synchronous | | | |
| 30 | Timer Function | Event Bubbling and Event Capturing | | | |
| 31 | Callback | Callback hell (Pyramid of DOOM) and Higher Order Functions | | | |
| 32 | Promises and its methods | | | |
| 33 | Fetch API | Async and Await | | | |
| 34 | Closures | Curring | seal and freeze methods | | | |
| 35 | OOP'S Programming in javascript | classes and objects | | | |
| 36 | Inheritance | Abstraction | Super keyword | Encapsulation | Constructor | | | |
| 37 | Introduction to String and its methods | | | |
| 38 | DOM and BOM | methods and properties | selectors and dom manipulation | | | |
| 39 | Debounce and Throttling | | | |
| 40 | Event loop | Call stack | Event queee | | | |
| 41 | Local storage | Session Storage | Cookies | | | |
| 42 | Global Execution Context and Function Execution Context | | | |
| 43 | bind , apply and call methods | | | |
| 44 | Memory leak | garbage collector | scope and scope chain | | | |
| 45 | Generator functions | Shallow copy and Deep Copy | | | |
| 46 | Pure and Impure Function | Event Delegation | | | |
| 47 | Map Weakmap, Set Weakset | | | |
|  | **JQuery** | | | |
|  |  |  |  |  |
| 1 | Introduction to JQuery | | | |
| 2 | Selectors | methods | events | effects | | | |
| 3 | Examples based on these concepts | | | |
| 4 | Validation | | | |
| 5 | Some plugins like Datatable | Gallery | Captcha etc | | | |
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