

SYLLABUS

Module -1 (10 Days)

- Introduction to web
- Browser Wars
- DOM tree, CSSOM tree.
- Browser internals HTML parser, CSS parser, JS engine
- Layout engine or rendering engine JavaScript
- V8 engine internals
- Browser is vs Node is
- IP MAC address Ports & Evolution of HTTP
- How the Server looks at the URL
- Request & Response cycle
- HTML Browser view Debugger, Inspect, Responsive View
- Data types
- Copy by value and Copy by reference
- Window object
- Array and JSON iteration
- XMLHTTPRequest
- Hoisting & scope
- function & return keyword
- types of function
- MRF array method
- error handling
- ES5 vs ES6 -
 - OOP, this, rest & spread operator
 - Array & object destructuring
- Task:
 - Codekata problem solving

Module -2 (5 Days for HTML, CSS, Bootstrap)

HTML

- O What is HTML?
- Basic tags in HTML?
- o Inline vs block element
- o div vs section vs article
- HTML forms & Form input element with its attributes
- HTML form submit



• CSS

- What is CSS?
- o property vs value
- Selector: tag vs class vs id
- Intro to pseudo-classes (link, visited, hover, active)
- o parent inherit
- Box model margin, padding, border
- Position property static, relative, absolute, fixed, sticky
- o overflow property hidden, visible, scroll, auto
- box-shadow property
- Linear gradient
- Clip property
- Media query
- Use of Font & icons

Bootstrap

- O What is Bootstrap?
- Container and grid system
- Task: (Mandatory to complete any two https://github.com/rvsp/HTML-

CSS/tree/master/Tasks)

- Laud page
- Banner
- Technical documentation
- Newspaper design
- Survey form
- Webkata Completion

Module -3 (3 Days & 2 days recap)

DOM Manipulation

- Document object and Window object
- Method in document object
 - createElement()
 - setAttribute()
 - o innerHTMLvs innerText
 - append() vs appendChild()
 - getElementById() vs querySelector() vs querySelectorAll()
- Method in Window object
 - prompt() vs alert() vs conform()
 - setTimeout() vs setInterval()
- Events Change CSS through JavaScript
- Cookies & session storage
- Task: (mandatory to complete any 2)
 - Pagination
 - calculator



HTML Forms

Module -4 (5 Days)

- Callback Event loop
- Promise
 - O What are the states in the promise?
 - Promise chaining
 - Fetch API
- Async/Await
- At least 3 projects using API from (<a href="https://github.com/public-apis/

Mock Interview-1 (Max 2 days)

Hackathon - 1 (Max 2 days)

Module -5 (10 Days)

- ReactJS
- The student should do a complete Front-end application

Module -6 (10 Days)

- MySQL & MongoDB
- NodeJS
- The student should do a complete backend application

Hackathon - 2 (Max 2 days)

Mock interview - 2 (Max 2 days)

Full stack session demonstration (Min 2 to Max 4 Days)

Module -7 (5 Days)

Data Structure & Algorithms

Module -8 (5 days)

- System Design
- AWS

Placement preparation & capstone project development

^{**}Five Full stack projects combined of Module 5 & 6



Guvi Geeks Network Pvt Ltd.

In between add-on sessions like alumni meet, cracking interview, personality development, webinars

Final Mock interview & Capstone project review