

**COURSE OUTLINE FORM**

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<b>Course Title: Web &amp; Mobile Hybrid App Development</b>
<b>Total Course Duration: 12 Months</b>

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Title: **Web & Mobile Hybrid App Development**

Edition: **Current**

Author: **SMIT Trainers**

Publisher: **Saylani Mass IT Training**

Outline layout created by: **Abdullah**

Materials: **HTML & CSS by Jon Duckett, A Smarter Way to Learn JavaScript by.**

**COURSE OBJECTIVES:**

1. Understand the global Developers life cycle and the logistics environment.
  2. Identify and explain quality control principles.
  3. Demonstrate effective workplace communications, computer skills, teamwork, and professional workplace behaviors to solve problems in the Programming field.
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**Module-1: Web Designing**

Pre-requisites (Matriculation & Basic Know How of Computer)

Duration: (2 Months – 96 Hours)

1. Html5
2. Css3
3. CSS Variables
4. CSS Animations
5. Media queries
6. Flex box
7. Grid system
8. Font Awesome
9. Bootstrap
10. Google Fonts
11. Netlify Hosting
12. Github
13. Github Hosting
14. Surge hosting
15. Domain & Hosing Subscription (Deployment)



**Quiz: HTML5**

Quiz-1

**Quiz: CSS3**

Quiz-1

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**Module-2: Front-End Development**

Pre-requisite (Module 01)

Duration (4 months – 192 Hours)

- 16. JavaScript
- 17. Advanced Javascript (All ES Versions)
- 18. Advance Github
- 19. Firebase
  - Auth
  - Firestore
  - Storage
- 20. PWA (pwabuilder.com)

**Quiz: JavaScript**

- Quiz-Jaz1
- Quiz- Jaz2
- Quiz- Jaz3
- Quiz- Jaz4

**Module-3: Modern Front-End Development**

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Pre-requisite (Module 01, 02)

Duration (3 months – 144 Hours)

- 21. ReactJS (Create react app, vite)
- 22. Tailwind CSS
- 23. Material, AntD
- 24. NextJS (SSR, AMP) (**Need Session**)
- 25. React Native (Android)
- 26. Firebase

**Quiz: React**

- Quiz-React

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**Module 04: Back-End App Development**

Prereq (Module 02)

Duration (3 months – 144 Hours)

27. NodeJS (ExpressJS)

Basic Routes

Database Connection

CRUD with MongoDB

Authentication

Middleware

Protected Routes

FS

28. JWT

29. WebSocket

30. Bcrypt

31. Cloudinary

32. MongoDB

33. GraphQL

34. PostGresSQL

35. Sequelize

36. Payment Integration



**Quiz: Back-End**

Quiz-Node-js & MongoDB