

Emerging Technologies

Full Stack Coding Program

Curriculum

Program Outline :

Module 1: Fundamentals of Web Development

1. Introduction to Web Development

- Core principles, tools, and technologies.

2. HTML, CSS, JavaScript

- Creating the structure, style, and interactivity of web pages.

Module 2: Front-End Development

3. Front-End Frameworks

- Building dynamic and responsive user interfaces.

4. Advanced UI/UX Design

- Enhancing user experience through design.

Module 3: Back-End Development

5. Server-Side Programming

- Developing robust server-side applications.

6. Database Management

- Storing and manipulating data in databases.

7. Web Services and APIs

- Creating and integrating web services.

Module 4: Capstone Project

8. Integration of Learned Skills

- Apply tools and techniques to real-world web development projects.

9. Advanced Data Analysis and Visualization

- Utilizing tools for data analysis and presentation.

10. Testing and Debugging

- Ensuring code quality with testing frameworks.

Elective Modules

11. Cloud Computing for Web Development

- Deploying applications on AWS, Azure, Google Cloud.

12. DevOps for Full Stack Development

- CI/CD pipelines, containerization with Docker, Kubernetes.

13. Mobile App Development

- Creating cross-platform applications with Flutter, React Native.

14. Cybersecurity for Web Development

- Best practices, threat modeling, security testing.

15. AI for Web Development

- Integrating artificial intelligence in web applications.

Websites:

- <https://chools.in/>
- <https://ramaqchools.com/>
- <https://www.choolsgroup.com/>