### **Meta Title:** Web Development Course in Jaipur | TGC Jaipur

### **Meta Description:** Enroll in the Web Development course at TGC Jaipur. Learn front-end and back-end development, JavaScript, React.js, Node.js, and full-stack web development with expert training and hands-on projects.

### **URL:** [tgcjaipur.com/courses/web-development-course-in-Jaipur](http://tgcjaipur.com/courses/web-development-course-in-Jaipur)

### **Web Development Course at TGC Jaipu**r

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Introduction

In today's digital era, web development is among the most in-demand and rapidly evolving fields. Businesses, organizations, and individuals rely on websites and web applications to reach a global audience, making skilled web developers essential to the tech industry.

At TGC Jaipur, our **Web Development Course** is designed to equip students with the technical skills and practical knowledge to build modern, responsive, dynamic websites and web applications.

### This course provides a comprehensive learning experience, covering everything from the basics of HTML, CSS, and JavaScript to advanced front-end and back-end development techniques. You will learn to work with popular frameworks like React.js, Node.js, and Express.js, and database management using SQL and NoSQL databases such as MySQL and MongoDB.

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### The course includes essential topics like authentication, security best practices, cloud hosting, and full-stack development, ensuring that students gain industry-relevant expertise.

### **Web Development Course Modules at TGC Jaipur**

#### **1. Introduction to Web Development & Technologies**

This module provides a foundational understanding of web development, covering the evolution of websites, different types of web applications, and core web technologies. You will learn about front-end, back-end, and full-stack development, gaining insights into how websites and web apps function.

The module introduces HTML, CSS, JavaScript, development environments, version control systems like Git, and debugging tools. Additionally, you'll explore the latest web trends, accessibility considerations, and career opportunities in web development.

#### **2. HTML & CSS for Web Design**

HTML and CSS are the building blocks of web design. This module delves into creating structured and semantic web pages using HTML5 and styling them with CSS3. Topics covered include responsive web design, Flexbox, CSS Grid, media queries, and CSS animations.

You will explore best practices for structuring clean, accessible web pages and learn how to build visually appealing, mobile-friendly websites. You will also be introduced to CSS pre-processors like SASS/LESS, enabling you to write efficient and reusable styles. Hands-on projects will help you apply your knowledge by designing and coding real-world website layouts.

#### **3. JavaScript & DOM Manipulation**

JavaScript is essential for creating dynamic and interactive web pages. This module introduces the core JavaScript programming concepts, including variables, data types, functions, loops, and control flow. You will also learn about the Document Object Model (DOM) and how to manipulate webpage elements dynamically.

Topics like ES6+ features (such as arrow functions, destructuring, and template literals), event handling, and error handling will be covered. The module will also introduce asynchronous JavaScript, including Promises and Async/Await, ensuring you are prepared for more advanced front-end development.

#### **4. Front-End Frameworks: React.js**

Modern web applications require efficient front-end frameworks. In this module, you will explore React.js, one of the most widely used JavaScript libraries for building user interfaces. You will learn about React components, state management, hooks, props, and React Router for navigation.

The module covers advanced topics such as context API, Redux for state management, and performance optimization techniques. Hands-on projects will help you build interactive single-page applications (SPAs) with real-world applications such as e-commerce websites, dashboards, and portfolio websites.

#### **5. Back-End Development with Node.js & Express.js**

This module introduces server-side programming using Node.js and Express.js. You will learn how to build robust and scalable back-end applications, handle HTTP requests, and create RESTful APIs. The course will also cover middleware, authentication, session management, and security best practices.

You will work on back-end logic, connecting databases, and handling user authentication using techniques such as JWT (JSON Web Tokens) and OAuth. By the end of this module, you will be able to develop and deploy a fully functional back-end for your web applications.

#### **6. Database Management: SQL & NoSQL**

Databases are essential for storing and managing web application data. This module covers SQL databases (MySQL, PostgreSQL) and NoSQL databases (MongoDB, Firebase). You will learn how to design and structure databases, perform CRUD (Create, Read, Update, Delete) operations, use indexing for query optimization, and ensure data security.

The module will introduce database relationships, normalization, and data modelling techniques. You will also explore ORM (Object-Relational Mapping) frameworks such as Mongoose and Sequelize, which streamline database management in web applications.

#### **7. Authentication & Security Best Practices**

Web security is a critical aspect of modern web development. This module teaches authentication techniques, including session-based authentication, OAuth, social logins, and two-factor authentication (2FA).

You will learn about security best practices, such as data encryption, password hashing, HTTPS implementation, input validation, and protection against common web vulnerabilities like SQL injection, cross-site scripting (XSS), and cross-site request forgery (CSRF). Hands-on exercises will ensure you can implement robust security measures in your web applications.

#### **8. Deployment & Cloud Hosting**

Once a website is built, it must be deployed for users. This module covers deploying web applications using various hosting platforms like Netlify, Vercel, Heroku, and AWS. You will learn about domain management, DNS configuration, and using Git/GitHub for version control.

The module also introduces CI/CD (Continuous Integration/Continuous Deployment) pipelines, which streamline the deployment process for developers. You will practice hosting front-end applications, deploying full-stack web apps, and integrating cloud-based services to enhance scalability.

#### **9. Full-Stack Development: Integrating Front-End & Back-End**

This module combines front-end and back-end development skills, allowing you to build complete full-stack applications. You will integrate a React.js front-end with a Node.js/Express.js back-end and a MongoDB or SQL database.

Topics covered include API consumption, CRUD operations, authentication, and state management. You will also explore server-side rendering (SSR) and the use of GraphQL for data fetching. By the end of this module, you will have built dynamic, responsive, and database-driven web applications.

#### **10. Capstone Project & Portfolio Development**

The final module involves working on a real-world web development project, where you will apply all the skills you have learned throughout the course. You will design, develop, and deploy a fully functional website or web application, integrating front-end, back-end, database management, and security features.

This capstone project will be a portfolio piece to showcase your abilities to potential employers or clients. You will also receive guidance on structuring your portfolio, writing a resume, and preparing for technical interviews to enhance your job prospects.

### **Why Choose TGC Jaipur for Web Development Training?**

At **TGC Jaipur**, we are committed to providing top-tier **web development training** that equips students with industry-relevant skills, hands-on experience, and career support. Here's why TGC Jaipur stands out as the best choice for your web development journey:

#### **Comprehensive Curriculum**

Our Web Development Course covers everything from **HTML, CSS, JavaScript, React.js, Node.js, Express.js, databases (SQL & NoSQL), authentication, security, and deployment**. Whether you're a beginner or looking to enhance your skills, our structured curriculum ensures you gain expertise in **full-stack development**.

#### **Expert Faculty with Industry Experience**

Learn from experienced professionals who have worked on real-world projects in **web development, UI/UX design, and software engineering**. Our instructors provide **personalized mentoring, hands-on guidance, and industry insights** to help you master web technologies.

#### **Hands-on learning with Live Projects**

We focus on **practical training** by engaging students in **live projects, real-world applications, and coding exercises**. By the end of the course, you will have a **portfolio of web applications** that showcase your skills to potential employers.

#### **Career Support & Placement Assistance**

We provide **job assistance** with **resume building, interview preparation, and industry connections** to help students secure roles as **front-end developers, back-end developers, full-stack developers, and web designers**. Our hiring partner network gives you a competitive edge in the job market.

#### **Flexible Learning Options**

Choose from **weekday, weekend, or online batches** to suit your schedule. Whether you prefer classroom training or online learning, we provide **flexible options** to help you achieve your learning goals.

#### **Affordable Fees & Easy Payment Plans**

Get **top-quality web development training at competitive pricing** with flexible **instalment plans**. Our goal is to make web development education **accessible and affordable** for everyone.

#### **Certification & Portfolio Development**

Upon course completion, you will receive a **recognized certification** and a **portfolio of projects** demonstrating your expertise. This helps you stand out in job interviews and freelance opportunities.

### **Frequently Asked Questions (FAQ) – Web Development Course at TGC Jaipur**

#### **1. What is this course about?**

The Web Development Course at TGC Jaipur covers front-end and back-end technologies, including HTML, CSS, JavaScript, React.js, Node.js, Express.js, databases, and cloud deployment.

#### **2. Who can enrol?**

Beginners, students, and professionals looking to start or advance their web development careers can join. No prior coding experience is required.

#### **3. What technologies will I learn?**

You will learn HTML, CSS, JavaScript, React.js, Node.js, Express.js, MySQL, MongoDB, Git/GitHub, and cloud platforms like AWS and Netlify.

#### **4. Is this course for front-end or back-end development?**

The course covers both, making you a full-stack developer capable of building complete web applications.

#### **5. Will I get hands-on experience?**

To build a strong portfolio, you'll work on real-world projects, coding exercises, and a capstone project.

#### **6. What career opportunities are available?**

You can work as a front-end, back-end, or full-stack developer in IT companies, startups, or freelancers.

#### **7. Do you provide job assistance?**

Yes, we offer resume building, interview preparation, and job referrals to hiring partners.

#### **8. What are the learning options?**

The course is available in classroom and online formats, with weekday and weekend batches.

#### **9. What is the course duration?**

It lasts a few months, depending on your schedule and learning pace.

#### **10. Will I get a certificate?**

Yes, you will receive a recognized certification upon completion.

#### **11. What is the course fee?**

Our course is affordably priced and has flexible payment plans available.