



This structured approach to your course modules introduces students to in-demand skills in development, programming, and infrastructure, preparing them for roles in web development, software engineering, and IT administration. This curriculum will also ensure that students learn best practices in security, efficiency, and collaborative tools, which are critical in the professional tech environment.

## Get In Touch

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An Initiative by **Avyukta Group**: Bridging Learning with Real-World Experience



# Skip Institutes Dive into Real-World Coding

## Web Development & DevOps Training



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From Knowledge to Action  
The **Avyukta** Way



# A) Web Development

## 1. Introduction to Development & Software Development Life Cycle (SDLC)

Objective: Introduce students to development basics, focusing on the structured SDLC framework used in the industry.

Topics Covered:

- **SDLC Phases:** Requirements gathering, feasibility study, system design, coding, testing, deployment, and maintenance. Development Methodologies: Agile, Waterfall, and Lean, with an emphasis on Agile for web development.
- **Version Control Systems (VCS):** Git fundamentals for tracking changes and collaboration.

Outcome: Students will understand how projects progress from concept to deployment, including teamwork and client communication essentials.

## 2. HTML, CSS, and Bootstrap for Web Design:

**Objective: Teach students to create responsive and aesthetic web layouts.**

Topics Covered:

- **HTML5 Structure:** Semantic elements, attributes, and forms for accessible, standards-compliant markup.
- **CSS3 Styling:** Selectors, pseudo-classes, and responsive design techniques using Flexbox and Grid.
- **Bootstrap 5:** Classes, components, and utilities for rapid development of mobile-first designs.

Outcome: Students will be able to structure and style web pages that are optimized for both desktop and mobile viewing.

## 3. JavaScript and AJAX:

**Objective: Provide skills for creating dynamic, interactive web pages.**

Topics Covered:

- **JavaScript ES6+:** Variables, functions, DOM manipulation, events, and scope.
- **Asynchronous JavaScript (AJAX):** Fetch API, XMLHttpRequest, and integrating RESTful APIs for dynamic content loading.
- **Event-Driven Programming:** Concepts in handling user interactions and asynchronous requests.

Outcome: Students will create web applications with responsive, real-time updates, essential for user engagement.

## 4. Working with Iframes:

**Objective: Teach integration of external resources into web pages.**

Topics Covered:

- **Embedding External Content:** Using iframes for maps, videos, and widgets.
- **Cross-Origin Policies and Security:** Understanding limitations and security implications.
- **Responsive Iframes:** Techniques for making iframes adapt to various screen sizes.

Outcome: Students will learn practical methods for embedding and styling external content while maintaining security standards.

# B) PHP Programming



## 1. Core PHP Fundamentals

Objective: Introduce students to the foundational concepts of server-side programming using PHP.

Topics Covered:

- **PHP Basics:** Variables, data types, and control structures (conditionals and loops).
- **File and Session Management:** Handling file uploads, managing sessions, and working with cookies for persistent data storage.
- **Form Processing:** Securing form inputs and validating user data to prevent vulnerabilities.

Outcome: Students will acquire the skills to build basic server side scripts that power dynamic web pages and interact with users.

## 2. SQL and Database Management

Topics Covered:

- **CRUD Operations:** Writing queries for creating, reading, updating, and deleting data.
- **Data Modeling:** Designing normalized database structures to ensure efficiency and minimize redundancy.
- **Database Security:** Techniques to prevent SQL injection and secure sensitive data.

Outcome: Students will be capable of integrating robust database solutions into web applications and ensuring data security.

## 3. PHP Arrays and SQL Join Queries

Objective: Teach students advanced data handling and database querying techniques.

Topics Covered:

- **PHP Arrays:** Working with associative and multi-dimensional arrays for organizing complex data.
- **SQL Join Queries:** Leveraging inner joins, left joins, and right joins to retrieve related data from multiple tables.
- **Query Optimization:** Improving database performance using indexing and query optimization techniques.

Outcome: Students will manage and manipulate complex datasets effectively in both PHP and SQL contexts.

## 4. Advanced PHP Programming and Frameworks

Objective: Prepare students to develop modern, scalable applications using advanced PHP and MVC frameworks.


Topics Covered:

- **Object-Oriented PHP:** Understanding classes, objects, inheritance, encapsulation, and polymorphism.
- **Introduction to MVC Frameworks:** Exploring Laravel's architecture, routing, controllers, and models.
- **Application Security:** Implementing measures such as data sanitization, CSRF protection, and password hashing.

Outcome: Students will gain advanced programming expertise and be well-versed in industry-standard practices, positioning them for roles in professional development teams.

# C) Linux , DevOps , and Networking

## 1. Linux Basics and Command Line Essentials

Objective: Provide students with hands-on experience in Linux, focusing on navigating and managing the system through the command line. 

Topics Covered:

- **Linux Fundamentals:** Overview of Linux distributions, directory structure, and system architecture.
- **File System Navigation:** Using commands like ls, cd, cp, mv, rm, and understanding file paths.
- **File Permissions and Ownership:** Managing security with chmod, chown, and understanding user/group roles.
- **Shell Scripting Basics:** Writing simple Bash scripts to automate repetitive tasks and manage processes.
- **Process Management:** Viewing and controlling processes using ps, top, and kill commands.

Outcome: Students will acquire the skills to build basic server-side scripts that power dynamic web pages and interact with users.

## 2. Introduction to DevOps Practices and Tools

Objective: Introduce students to the principles of DevOps and the tools that enable efficient software development and deployment.

Topics Covered:

- **DevOps Culture:** Understanding the philosophy of collaboration between development and operations teams.

- **CI/CD Pipelines:** Concepts of continuous integration, delivery, and deployment, with practical examples.
- **Monitoring and Logging:** Tools like Prometheus, Grafana, and ELK stack for real-time monitoring and log analysis.

Outcome: Students will grasp how DevOps enhances development efficiency and be familiar with core tools used in modern software lifecycles.

## 3. Networking Fundamentals and Configuration

Objective: Teach students the core networking concepts required for configuring and troubleshooting server environments.

Topics Covered:

- **Networking Protocols:** Introduction to TCP/IP, DNS, DHCP, HTTP/HTTPS, and FTP protocols, with practical scenarios.
- **Configure and manage:** IP addresses, subnetting, network masks, and DNS settings.
- **Troubleshooting:** Using tools like ping, traceroute, and netstat to diagnose connectivity issues.
- **Network Security:** Configuring firewalls, managing SSH for secure remote access, and mitigating common network vulnerabilities.

Outcome: Students will gain practical skills to configure and secure networks, troubleshoot common issues, and manage servers effectively in a networked environment.

# How We Ensure Your Success

## Our Training Approach

We focus on a hands-on, practical learning methodology to ensure every student gains real-world experience. Key aspects of our approach include

We ensure your success through hands-on learning with live projects and personalized attention in small batches. Our step-by-step process guides you from enrollment to mastering skills, applying them in real-world projects, and excelling in your career with interview preparation. With 24/7 access to materials, ongoing mentor support, and dedicated help for resumes and job placements, we are committed to your growth even beyond the classroom.

## Why & What We Offer ?

**Our institute offers an industry-relevant curriculum tailored to meet the demands of real-world job roles, ensuring you're equipped with practical skills and knowledge.**

At our training institute, we offer an industry-relevant curriculum designed to meet real-world demands, ensuring our students are job-ready. Guided by expert trainers with years of experience, our programs emphasize hands-on learning with live projects and certifications to build an impressive portfolio. We provide comprehensive courses in Web Development, PHP Programming, Linux, DevOps, and Networking, available in both online and offline modes for flexible learning. With dedicated placement assistance and job-oriented training, 90% of our students secure jobs within six months, making us a trusted choice for career-focused education





## Build Your **Soft Skills & Communication** Mastery

Soft skills and communication are essential for success in any field. Our program focuses on building confidence, fostering teamwork, and enhancing workplace effectiveness.

- **Master essential soft skills** to thrive in any environment: enhance your time management to stay productive and meet deadlines, develop leadership abilities to inspire and guide teams, sharpen problem-solving skills to tackle challenges with innovative solutions, and embrace adaptability to excel in changing circumstances.
- **Strengthen your communication** skills by mastering verbal and non-verbal communication for clarity and confidence, practicing active listening to build strong relationships, and delivering impressive, impactful presentations that leave a lasting impression.

## Unlock Your **Best Self** with Our **Personality Development Program**

Unlock Your Potential with Our Personality Development Training, designed to build confidence and foster both personal and professional growth.

- **Our Personality Development** Training helps you build confidence, improve time management, and enhance communication skills. Develop leadership, strengthen relationships with empathy, and tackle challenges with effective problem-solving.
- **Stand out in interviews**, adapt to any environment, and unlock your leadership potential. Gain improved self-confidence, polished social skills, and a competitive edge for career growth.

