



STUDENTS INDUSTRIAL WORK EXPERIENCE SCHEME  
**SIWES**



**ROLASOFT PROFESSIONAL COMPUTER & IT  
COURSES VERSION 2.0 LATEST**

**SIWES Diploma in Back-End  
Web Development**

*Become a job-ready Back-End Web in 3-6  
months!*

# Benefits of Studying with RolaSoft

## ✓ 1. Industry-Relevant Curriculum

Stay ahead with a syllabus designed by industry experts, focused on real-world applications of Back-End Development.

## ✓ 2. Hands-On Training

Learn by doing — build real-time projects, full-scale back-end application.

## ✓ 3. Experienced Instructors

Gain insights from certified professionals and senior certified ethical hacker with years of teaching and industry experience.

## ✓ 4. Placement Assistance

Access job support services including resume building, mock interviews, and direct placement opportunities with partner companies.

## ✓ 5. Flexible Learning Modes

Choose between: **Online**, **Offline (at our center)**, or **Hybrid Classes**

# Benefits of Studying with RolaSoft

## ✓ 6. Mini & Major Projects

Work on individual and group projects to strengthen your portfolio and impress future employers.

## ✓ 7. Certification Upon Completion

Earn a **Diploma Certificate** from **RolaSoft Technologies**, recognized by IT recruiters and employers.

## ✓ 8. Small Batch Size

Personalized attention and better interaction in small groups for an enhanced learning experience.

## ✓ 9. Affordable Fees & Installment Plans

Top-tier training at a reasonable cost, with flexible payment options.

## ✓ 10. Career-Oriented Skills You'll Gain at RolaSoft Technologies

RolaSoft ensures you're job-ready with the right tech stack and practical knowledge.

# SIWES Overview

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**SIWES** (Student Industrial Work Experience Scheme) is a structured industrial training program designed for students in Nigerian tertiary institutions studying science, engineering, technology, and other professional courses. It is coordinated by the **Industrial Training Fund (ITF)** and serves as a bridge between academic knowledge and practical industry experience.

Typically conducted for a duration of **3–6 months**, SIWES places students in real work environments related to their field of study. During this period, they apply classroom theory to practical tasks and gain firsthand understanding of workplace expectations and professional practices.

# Advantages of SIWES to Students

## Advantages of SIWES to Students

**Hands-On Experience:** Provides real-world exposure and practical knowledge in the student's field.

**Bridging the Skills Gap:** Helps students connect academic theories with industry practices.

**Career Readiness:** Prepares students for post-graduate employment by developing technical and soft skills.

**Professional Networking:** Offers opportunities to build relationships with industry professionals.

**Improved Employability:** Enhances resumes/CVs with relevant work experience that employers value.

**Understanding of Workplace Culture:** Teaches students workplace ethics, teamwork, and communication.

**Opportunity for Future Placement:** Sometimes leads to job offers or future internships with the same organization.

# SIWES Back-End Web Development Course Details



## **Duration**

Three-Six (3-6) Months



## **Schedule**

Weekdays / Weekends



## **Learning Modes**

Online, Offline (at our center), or Hybrid Classes



## **Start Date**

New batches start every month — enroll now!



## **Eligibility**

No prior experience required

# SIWES Back-End Web Development – Program Details

## Program Overview

This **Back-End Development** course equips students with the knowledge and practical skills required to build the logic, database connections, APIs, and server-side components of web applications. It focuses on writing secure, efficient, and scalable code that powers modern websites and apps.

Students will work with databases, servers, APIs, authentication systems, and deployment tools.

# SIWES Back-End Web Development - Target Audience & Prerequisites

## Target Audience:

- ✓ Students of Computer Science, Software Engineering, or IT during internships, SIWES, or technical bootcamps.

## Prerequisites:

- ✓ Basic understanding of programming (any language) and web fundamentals (HTML/CSS/JS).

# SIWES Back-End Web Development Course Curriculum

## Module 1: Introduction to Back-End Development

- ✓ What is back-end development?
- ✓ Front-end vs. back-end vs. full-stack
- ✓ Introduction to servers, clients, databases, and APIs
- ✓ REST vs. GraphQL overview

# SIWES Back-End Web Development Course Curriculum

## Module 2: Programming Language Fundamentals

*(Choose one: Node.js with JavaScript, Python, PHP, or Java)*

Example: **Node.js + Express.js**

- ✓ Syntax, data types, control flow
- ✓ Functions, objects, modules
- ✓ Working with file systems

# SIWES Back-End Web Development Course Curriculum

## Module 3: Server-Side Development

- ✓ Setting up a development server (Express.js / Django / Laravel)
- ✓ Handling routes, requests, and responses
- ✓ Middleware and error handling
- ✓ Serving static files and templates

# SIWES Back-End Web Development Course Curriculum

## Module 4: Database Integration

- ✓ Introduction to relational (MySQL/PostgreSQL) and NoSQL (MongoDB)
- ✓ CRUD operations (Create, Read, Update, Delete)
- ✓ Connecting back-end apps to a database
- ✓ Query building and ORM (e.g., Mongoose / Sequelize / Prisma)

# SIWES Back-End Web Development Course Curriculum

## Module 5: RESTful API Development

- ✓ Creating and testing REST APIs
- ✓ API design best practices
- ✓ Tools: Postman, Swagger
- ✓ Versioning and documentation

# SIWES Back-End Web Development Course Curriculum

## Module 6: Authentication & Authorization

- ✓ User registration and login
- ✓ Password hashing (bcrypt)
- ✓ Sessions and JWT (JSON Web Tokens)
- ✓ Role-based access control

# SIWES Back-End Web Development Course Curriculum

## Module 7: Deployment and DevOps Basics

- ✓ Environment variables and configurations
- ✓ Hosting back-end apps (e.g., on Heroku, Render, or VPS)
- ✓ Using Git and GitHub for deployment
- ✓ Intro to CI/CD pipelines

# SIWES Final Capstone Project (End of 3-6 Months)

Students will complete an **industry-level project**:

- ✓ Build a full CRUD-based back-end system (e.g., blog, inventory app, or e-commerce API), Connect to a front-end or API client, Document and present the project.

# SIWES Back-End Web Development - Certification Obtain

After completion of the program, the student will be awarded with a certificate:

**SIWES Diploma in Back-End Web Development**

# SIWES Back-End Web Development - Roles After Completion

Graduates of this course can pursue the following roles:

- ✓ **Back-End Developer:** Builds and maintains the server-side of web applications and APIs.
- ✓ **API Developer:** Specializes in building and documenting REST or GraphQL APIs.
- ✓ **Node.js/Python Developer:** Focuses on server-side development using specific tech stacks.
- ✓ **Database Developer:** Manages and optimizes database systems and queries.
- ✓ **Full-Stack Developer:** Works on both front-end and back-end; common after further full-stack training.
- ✓ **DevOps Intern/Engineer:** (Advanced) Assists with deployment and server maintenance tasks.
- ✓ **Junior Software Engineer:** Entry-level role supporting back-end systems in a larger team.

# Rolasoft Technologies Services

## Rolasoft Technologies – Services Offered

### ✓ **SOFTWARE DEVELOPMENT COMPANY**

(MOBILE APPLICATION, WEB APPLICATION, DESKTOP APPLICATION, CUSTOMIZED APPLICATION, E-COMMERCE WEBSITE)

### ✓ **PROFESSIONAL COMPUTER AND IT EDUCATION**

(TOP-UP PROGRAMS, DIPLOMA PROGRAMS, CERTIFICATE PROGRAMS, TECH @ SCHOOL, CORPORATE PROGRAMS, SIWES PROGRAMS, CUSTOMIZED PROGRAMS)

### ✓ **DIGITAL ADVERTISING AND BUSINESS BRANDING**

(SOCIAL MEDIA MARKETING, EMAIL MARKETING, CONTENT MARKETING, WEBSITE SEO, BRANDED CLOTHING, STICKERS AND TAG, CUSTOM BRANDING, AND MANY MORE)

### ✓ **INTERNATIONAL UNIVERSITY ADMISSION PROCESSING**

(AMERICA, UK, CANADA, EUROPE, AFRICA, AND MANY MORE)

## Contact & Registration

 Phone: +234 8032867212, +234 8082171242

 Email: [info@rolasofttech.com](mailto:info@rolasofttech.com)

 Website: [www.rolasofttech.com](http://www.rolasofttech.com)

 Address: 2, Martins Street Off Ojuelegba Road, Yaba, Lagos State.

 **Enroll Today & Start Your SIWES Back-End Web Development Journey!**

*Shape your future with SIWES Back-End Web Development.*