STUDENTS INDUSTRIAL WORK EXPERIENCE SCHEME

SIWES

ROLASOFT PROFESSIONAL COMPUTER & IT COURSES VERSION 2.0 LATEST

SIWES Diploma in Cloud Computing

Become a job-ready Cloud Computing 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 cloud computing.

✅ **2. Hands-On Training**

Learn by doing — build real-time projects, full-scale cloud computing.

✅ **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

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

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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 Cloud Computing 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 Cloud Computing – Program Details

Program Overview

The **Cloud Computing Basics** course provides an introduction to the core concepts and services of the three major cloud providers: **Amazon Web Services (AWS)**, **Microsoft Azure**, and **Google Cloud Platform (GCP)**. Learners will gain foundational knowledge of cloud architecture, infrastructure as a service (IaaS), platform as a service (PaaS), software as a service (SaaS), and how to use key services like storage, compute, networking, and security.

By the end of the course, students will be able to deploy simple applications and resources on the cloud, laying the groundwork for a career in cloud computing and IT infrastructure management.

SIWES Cloud Computing - Target Audience & Prerequisites

Target Audience:

✅ IT professionals, software developers, network engineers, students interested in cloud technologies, especially for SIWES or internships students.

Prerequisites:

✅ Basic understanding of networking and IT infrastructure is helpful, but not required.

SIWES Cloud Computing Course Curriculum

Module 1: Introduction to Cloud Computing

- ✅ Definition of cloud computing
- ✅ Cloud computing models: IaaS, PaaS, SaaS
- ✅ Cloud deployment models: Public, Private, Hybrid
- ✅ Benefits of cloud computing (scalability, cost-effectiveness, flexibility)
- ✅ Overview of the top cloud providers (AWS, Azure, Google Cloud)

SIWES Cloud Computing Course Curriculum

Module 2: Cloud Computing Architecture

- ✅ Understanding the cloud architecture components
- ✅ Regions, Availability Zones, and data centers
- ✅ Elasticity and scalability in the cloud
- ✅ Cloud storage options: object storage, block storage, and file storage
- ✅ Cloud computing networking concepts: Virtual Private Cloud (VPC), load balancers, firewalls

SIWES Cloud Computing Course Curriculum

Module 3: AWS Overview

- ✅ Introduction to AWS (Amazon Web Services)
- ✅ Key AWS services: EC2 (compute), S3 (storage), RDS (database), VPC (networking)
- ✅ Creating and managing EC2 instances
- ✅ Using AWS CLI and the AWS Management Console
- ✅ Hands-on labs: Launching an EC2 instance, configuring security groups, and using S3

SIWES Cloud Computing Course Curriculum

Module 4: Microsoft Azure Overview

- ✅ Introduction to Microsoft Azure
- ✅ Key Azure services: Azure Virtual Machines, Azure Blob Storage, Azure SQL Database
- ✅ Creating and managing virtual machines (VMs) in Azure
- ✅ Azure Resource Manager and Azure CLI
- ✅ Hands-on labs: Launching an Azure VM, creating storage accounts, and using Azure services

SIWES Cloud Computing Course Curriculum

Module 5: Google Cloud Platform (GCP) Overview

✅ Introduction to Google Cloud Platform

✅ Key GCP services: Google Compute Engine (VM), Cloud Storage, BigQuery, Google Kubernetes Engine (GKE)

✅ Setting up and managing GCP resources

✅ Using Google Cloud Console and Cloud SDK

✅ Hands-on labs: Creating a VM instance in GCP, configuring cloud storage, and deploying simple applications

SIWES Cloud Computing Course Curriculum

Module 6: Cloud Security and Compliance

- ✅ Cloud security basics
- ✅ Identity and Access Management (IAM) across AWS, Azure, and GCP
- ✅ Encryption and data protection in the cloud
- ✅ Compliance frameworks: GDPR, HIPAA, SOC2, and more
- ✅ Best practices for securing cloud infrastructure

SIWES Cloud Computing Course Curriculum

Module 7: Cloud Automation and DevOps Basics

✅ Introduction to DevOps and cloud automation

✅ Infrastructure as Code (IaC) with tools like AWS CloudFormation, Azure ARM Templates, Google Deployment Manager

✅ Continuous Integration and Continuous Deployment (CI/CD) in the cloud

✅ Using cloud-based container services: Docker, Kubernetes (GKE, EKS, AKS)

SIWES Cloud Computing Course Curriculum

Module 8: Cloud Monitoring and Cost Management

- ✅ Cloud monitoring tools: CloudWatch (AWS), Azure Monitor, Google Stackdriver
- ✅ Setting up alerts, logs, and monitoring for cloud resources
- ✅ Cost management and budgeting in the cloud
- ✅ Using AWS Cost Explorer, Azure Cost Management, Google Cloud Billing

SIWES Cloud Computing Course Curriculum

Module 9: Real-World Cloud Applications and Use Cases

- ✅ Common cloud use cases in industry
- ✅ Hosting web applications, databases, and content delivery networks (CDN)
- ✅ Cloud-based data analytics with AWS, Azure, and GCP
- ✅ Case studies: Cloud adoption by major companies and organizations

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

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

✅ Deploying a multi-cloud application (using AWS, Azure, or GCP). Designing a scalable and secure cloud architecture.

SIWES Cloud Computing - Certification Obtain

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

SIWES Diploma in Cloud Computing

SIWES Cloud Computing - Roles After Completion

Graduates of this course can pursue the following roles:

✅ **Cloud Engineer:** Deploy, configure, and manage cloud services and infrastructure

✅ **Cloud Solutions Architect:** Design scalable cloud architectures, recommend appropriate cloud services

✅ **DevOps Engineer:** Automate cloud infrastructure management, implement CI/CD pipelines

✅ **Cloud Systems Administrator:** Manage and monitor cloud servers, networks, and services

✅ **Cloud Support Engineer:** Provide technical support for cloud infrastructure and services

✅ **Cloud Consultant:** Advise businesses on adopting and optimizing cloud computing solutions

✅ **IT Infrastructure Manager:** Oversee the implementation and management of cloud-based IT resources and services

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

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Enroll Today & Start Your Cloud Computing Journey!

Shape your future with SIWES Cloud Computing