

CLOUD COMPUTING - CERTIFICATE OF ACHIEVEMENT

Plan Code: 3132

This program provides the student with the industry skills to understand, build, and maintain cloud applications. These skills include the technical principles of the hardware and software requirements to run systems in the cloud, including storage, database management, and software systems, while maintaining secure access.

Program Student Learning Outcomes

- Create Infrastructure as a Service (IaaS) solutions by provisioning computing instances, establishing virtual private networks, and managing databases, and storage within a secure online environment.
- Analyze performance metrics of cloud architecture to respond dynamically to information and computing technology workloads and optimize service costs.
- Create Infrastructure as a Service using automated code scripts (Infrastructure As Code).

Program Requirements

Code Number	Course Title	Units
REQUIRED COURSES		
COSN 10	Networking Fundamentals	3
COSN 205	UNIX/LINUX Fundamentals	4
COSN 230	Microsoft Windows Server	4
COSN 250	Cloud Computing in Amazon Web Services	3
COSN 251	Database Essentials in Amazon Web Svcs	3
COSN 252	App Development in Amazon Web Services	3
COSN 253	Security in Amazon Web Services	3
COSS 71	Network Security Fundamentals	3
Subtotal Units		26
IN ADDITION, complete ONE (1) course from the following:		
CS 11	Introduction to Computer Science- C++ (3)	
CS 21	Introduction to Computer Science-Java (3)	
CS 31	Introduction to Computer Science-Python (3)	
Subtotal Units		3
Total Units		29