

CURRICULUM FOR DIPLOMA IN SOFTWARE ENGINEERING

Description

Dive into the world of software development with our Software Engineering program. Learn to design, develop, and maintain software systems using the latest programming languages and technologies. This course covers everything from foundational coding principles to advanced software architecture, preparing you for a successful career in software engineering.

Highlights

- Hands-on coding experience with real-world projects
- Mastery of programming languages like Python, Java, and C++
- Understanding of software development life cycles and methodologies

Core Faculties

Udemeobong Akpan - Course coordinator

Program Credit

Total Program Credits: 90

Year 1, 1st Semester

Course Code	Course Title	Course Description	Course Unit
SEG101	Introduction to Software Engineering	Overview of software engineering principles, methodologies, and practices	3
SEG111	Programming Fundamentals	Introduction to programming concepts using the Python Programming language.	3
SEG121	Technical Communication	Developing skills for technical writing and communication in software engineering.	3
SEG141	Computer Systems and Architecture	Basics of computer hardware, architecture, and operating systems.	3
SEG161	Discrete Mathematics	Fundamentals of discrete mathematics including logic, set theory, and graph theory	3
GEN101	Communication in English	Basic English and the four developmental language skills for effective communication in English.	2
GEN111	Computer Fundamental	History and evolution of computer, the concept of input-process-output and the characteristics of computer. Hardware components of the computer, kind of memories, use and the interaction, input and output devices	2
GEN121	Introduction to computer Science I	Explain basic components of computers and other computing devices. Describe the various applications of computers. Explain information processing and its roles in society. Describe the Internet, its various applications, and its impact. Explain the different areas of the computing discipline and its specializations. Demonstrate practical skills in using computers and the internet.	3

Total Credit: 22