

ENTRY REQUIREMENTS

WASSCE/NECO:

Minimum C6 in 6 subjects including 3 core subjects (Maths and English mandatory) and 3 elective subjects. (Elective /Add/Further Maths and Physics mandatory)

SSSCE:

Minimum D or a pass in 6 subjects including 3 core subjects (Maths and English mandatory) and 3 elective subjects. (Elective /Add/Further Maths and Physics mandatory)

IGCSE O-LEVEL & A-LEVEL:

Minimum of 5 credit passes in the IGCSE/O-Levels (including Maths and English) and 3 passes in the A-Levels. (Elective /Add/Further Maths and Physics mandatory)

ENGLISH IB:

Minimum of 5 credit passes in the IGCSE/O-Levels (Maths and English mandatory) and a minimum score of 4 points in 3 Higher Level (HL) subjects. (Elective /Add/Further Maths and Physics mandatory)

FRENCH IB:

Minimum of 50% overall average pass. (subject to approval NAB) (Maths, English and Physics mandatory)

AMERICAN HIGH SCHOOL:

Minimum GPA of 3.0 (Maths, English and Physics mandatory)



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UNIVERSITY COLLEGE



 ENGINEERING

BSc. Electronics & Communication Engineering

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Redefining University Education

SEMESTER 1**Course Name**

Communication Skills
 French Language
 Fundamentals of Innovation and Entrepreneurship (FIE) Seminar I
 Introduction to Engineering
 Introduction to Programming with Python
 Physical Sciences
 Pre-Calculus (with MATLAB)
 Technology and Society

SEMESTER 2**Course Name**

Analytic Geometry and Calculus I (with MATLAB)
 Basic Electronics
 Fundamentals of Innovation and Entrepreneurship (FIE) Seminar II
 Introduction to Multidisciplinary Design
 Logic and Critical Thinking
 Programming in C
 Sensors, Measurements and Instrumentation
 Text and Meaning

SEMESTER 5**Course Name**

Differential Equations (with MATLAB)
 Digital Communication
 Digital Systems Design
 Leadership Seminar II
 Numerical Methods (with MATLAB)
 Signals and Systems
 Systems Dynamics

SEMESTER 6**Course Name**

Antennas and Wave Propagation
 Automatic Control Systems
 Digital Signal Processing
 Industry Internship
 Microprocessors & Microcontrollers
 Project Management, Engineering Economics and Risk Analysis
 Telecommunications Switching and Networks

SEMESTER 3**Course Name**

Analog Communication
 Analytic Geometry and Calculus II (with MATLAB)
 Circuit Theory
 Electromagnetic Fields & Waves Theory
 Fundamentals of Innovation and Entrepreneurship I
 Introduction to Material Science and Engineering
 Leadership Seminar I

SEMESTER 4**Course Name**

African Studies
 Applied Linear Algebra (with MATLAB)
 Data Communication and Computer Networks
 Electrical Machines
 Fundamentals of Innovation and Entrepreneurship II
 Probability, Statistics and Reliability (with MATLAB)
 Solid State Electronic Devices

SEMESTER 7**Course Name**

Advanced Digital Signal Processing
 Microwave Engineering
 Mobile Communication
 Optical Communication
 Project Phase I
 Remote Sensing

SEMESTER 8**Course Name**

Environmental Science and Engineering
 Professional Ethics and Values
 Project Phase II
 Real-Time Digital Signal Processing
 Satellite Communication
 Telecommunication System Modelling and Simulation