

Bachelor of Engineering in Electronics and Communication Engineering

Programme details:

The Bachelor of Engineering (BEng) in Electronics and Communication program is a comprehensive five-year, 600 credits undergraduate program designed to equip students with a deep understanding of electronic systems and communication technologies. Through a blend of theoretical knowledge, practical skills, and hands-on experience, students will develop the expertise necessary to thrive in the dynamic field of electronics and communication engineering.

Core modules:

- E5-PH1-23: Physics-1 (15)
- E5-GC1-23: General Chemistry -1 (15)
- C5-CE1-20: Computer and its essentials 1 (10)
- E6-EEW-24: Electrical and Electronics Engineering Workshop (10)
- E5-PCM-23: Precalculus for Mathematics (10)
- E5-PH2-23: Physics -2 (15)
- E5-GC2-23: General Chemistry -2 (15)
- E6-LAM-23: Linear Algebra (10)
- E5-EM1-23 Engineering Mathematics 1 (10)
- C6-CE2-20: Computer and its essentials – II (10)
- E6-PPC-23: Procedural Programming in C and Python (10)
- D6-AWS-20: Academic writing for STEM (10)
- E6-EME-23: Engineering Mathematics 2 (10)
- E6-END-23: Engineering Drawing (10)
- E6-ECA-23: Electrical circuit Analysis (10)
- E6-EDC-23: Electronic Devices and Circuits (10)
- E6-EWP-23 Engineering Workshop Practice (10)
- E6-EM3-23 Engineering mathematics – 3 (10)
- E6-DET-23 Digital Electronics (10)
- E6-AET-23 Analogue Electronic Circuit Design (10)
- E6-ADE-23: Analogue and Digital Electronics Lab (10)
- E6-EMW-23: Electromagnetism & Waves (10)
- E7-CME-24: Communication Engineering (10)
- E6-SAS-23: Signals and System Design (10)
- E7-DCE-24: Data Communication and Network Engineering (10)
- E6-EM4-23: Engineering mathematics – 4 (10)
- E7-DCM-24: Digital communication (10)
- E7-CML-24: Communication lab (10)
- E7-DG1-24: Design Group project – 1 (10)
- E7-LIC-24: Linear integrated circuits Design (10)
- E7-MML-23: Microprocessor & Microcontrollers Design Lab (10)
- E7-MMD-23: Microprocessor & Microcontrollers (10)
- E7-WCN-24: Wireless communication and networks (10)
- E7-TLW-24: Transmission lines and wave guides (10)
- E7-DSP-23: Digital signal processing (10)
- C7-CSE-24: Control System Engineering Design (10)
- E7-AWP-24: Antenna and wave propagation (10)
- E8-RMS-24: Research Methods in STEM (10)
- E8-ESD-23: Embedded system Design (10)
- E7-DG2-24: Design Group project – 2 (10)
- E8-MOS-24: Millimeter wave Optical Communication Systems (10)
- E8-RME-24: RF Microelectronics and Microwave engineering (10)

- E8-OML-24: Optical and microwave engineering laboratory (10)
- E8-PR1-23: Research Project 1 (10)
- E8-VLD-24: VLSI Design (10)
- E8-EIS-24: Engineers in Society (10)
- B8-ENI-20: Entrepreneurship & Innovation (20)
- E8-PR2-23: Research Project 2 (10)
- E8-PPR-23: Professional Practice (60)

Elective Modules:

- E7-SCS-24: Security in communication systems (10)
- E7-DST-24: Digital Switching and Transmission (10)
- E7-EIM-24: Electronic Instrumentation and Measurement (10)
- E7-IES-24: IoT Enabled Systems (10)
- E8-RAA-24: Robotics and Automation (10)
- E8-BME-24: Bio Medical Engineering (10)
- E8-AWC-24: Advanced Wireless Communication (10)
- E8-CAI-24: CMOS Analog IC Design (10)
- E8-SAC-24: Satellite Communication (10)
- E8-OEN-24: Opto Electronics and networks (10)
- E8-MEM-24: MEMS (10)
- E8-EMI-24: Electromagnetic Interface and Compatibility (10)

Semester 1

- E5-PH1-23, E5-GC1-23, C5-CE1-20, E6-EEW-24, E5-PCM-23

Semester 2

- E5-PH2-23, E5-GC2-23, E6-LAM-23, E5-EM1-23, C6-CE2-20

Semester 3

- E6-PPC-23, D6-AWS-20, E6-EME-23, E6-END-23, E6-ECA-23, E6-EDC-23

Semester 4

- E6-EWP-23, E6-EM3-23, E6-DET-23, E6-AET-23, E6-ADE-23, E6-EMW-23

Semester 5

- E7-CME-24, E6-SAS-23, E7-DCE-24, E6-EM4-23, E7-DCM-24, E7-CML-24

Semester 6

- E7-DG1-24, E7-LIC-24, E7-MML-23, E7-MMD-23, E7-WCN-24, E7-TLW-24

Semester 7

- E7-DSP-23, C7-CSE-24, E7-AWP-24, E8-RMS-24, E8-ESD-23, E7-DG2-24

Semester 8

- E8-MOS-24, E8-RME-24, E8-OML-24, E8-PR1-23, E8-VLD-24

Select any one: E7-SCS-24, E7-DST-24, E7-EIM-24, E7-IES-24, E8-EIS-24, B8-ENI-20, E8-PR2-23

Select any two: E8-RAA-24, E8-BME-24, E8-AWC-24, E8-CAI-24, E8-SAC-24, E8-OEN-24, E8-MEM-24,
• E8-EMI-24

Semester 9

- E8-PPR-23

Admissions Criteria

1) BGCSE/equivalent with 5 Passes including Mathematics and Physics/Double Sciences/Physics + Chemistry.

2) Applicants in possession of a Diploma or Higher Diploma in related field will be given exemptions based on the credit point equivalency.

3) For enquiries and more information please visit our website: www.bothouniversity.com