Bachelors of Science in Network Security and Computer Forensics

Programme details:

The programme consists of core (required) and elective modules as detailed below. Some modules may have pre-requisites (i.e. may require the student to pass another module or set of modules first). Some modules may be co-requisite (i.e. such modules are required to be taken together). The number at the end of the module in parenthesis indicates the credit load of the module. 1 credit is equal to 10 hours of learning (guided, in-class and independent combined); therefore a 10-credit module requires on average 100 hours of learning from the student.

Core modules:
- C5-CE1-20: Computer and its Essentials 1 (10)
- C5-PLD-20: Programming Logic and Design (10)
- C5-MAT-20: Mathematics (10)
- C5-OSH-11: Operating System and Hardware (20)
- C6-PIE-20: Professional Issues and Ethics (10)
- C6-NEF-20: Networking Fundamentals (20)
- C6-DBC-20: Database Concepts (10)
- D6-AST-20: Academic Writing for STEM (10)
- C6-CE2-20: Computer and its Essentials 2 (10)
- C6-EOL-20: Essentials of Linux (10)
- C6-CFO-23: Computer Forensics (10)
- C6-PUC-20: Programming using C++(20)
- C6-CF0-23: Computer Forensics Lab (10)
- C6-RSW-20: Routing and Switching (10)
- C6-RSL-20: Routing and Switching Lab (10)
- C7-SCS-23: Scripting for Cyber Security (20)
- C6-PCS-23: Principles of Cyber Security (10)
- C6-OSF-23: Operating System Forensics (10)
- C6-NSE-20: Network Security (10)
- C7-WMS-23: Wireless and Mobile Security (10)
- C7-IDS-23: Information and Data Security (10)
- C7-EHK-13: Ethical Hacking (20)

- C7-SDN-23: Software Defined Network Engineering (10)
- C7-FIT-23: Forensics Investigation Techniques (10)
- C7-CGT-23: Cryptographic Techniques (10)
- C7-RMS-20: Research Methods for STEM (10)
- C7-MAN-13: Malware Analysis (20)
- C7-AEH-23: Advanced Ethical Hacking (10)
- V-C7-MFO-23: Mobile Forensics (10)
- C8-CCI-23: Cyber Crime Investigation (10)
- C7-RP1-20: Research Project 1: Proposal Writing (10)
- C7-CYL-23: Cyber Law (10)
- B8-ENT-13: Essentials of Entrepreneurship (20)
- C8-RP2-20: Research Project 2: Dissertation (20)
- C7-PRC-20: Professional Practice in Computing (40)

Elective Modules:
- C7-IOT-23: Internet of Things (10)
- C7-CCS-20: Cloud Computing and Security (10)
- C7-SDE-20: Security by Design (10)
- C8-MAS-20: Media and Storage (10)
- C8-MEF-23: Media Forensics (10)
- C8-ISG-23: Information Security Management and Governance (10)

Recommended full-time study path (4 years):

Semester 1:
- C5-CE1-20, C5-PLD-20, C5-MAT-20, C5-OSH-11, C6-PIE-20

Semester 2:
- C6-NEF-20, C6-DBC-20, D6-AST-20, C6-CE2-20, C6-EOL-20

Semester 3:
C6-CFO-23, C6-PUC-20, C6-RSW-20, C6-RSL-20

Semester 4:
- C7-SCS-23, C6-PCS-23, C6-OSF-23, C6-NSE-20, C7-WMS-23

Semester 5:
- C7-IDS-23, C7-EHK-13, C7-SDN-23,

C7-FIT-23, C7-CGT-23

Semester 6:

•C7-RMS-20, C7-MAN-13, C7-AEH-23, C7-MFO-23, Elective Select any one (C7-IOT-23, C7-CCS-20, C7-SDE-20)

Semester 7:

•C8-CCI-23, C7-RP1-20, C7-CYL-23, B8-ENT, Elective Select any one (C8-MAS-20, C8-MEF-23, C8-ISG-23)

Semester 8:

•C8-RP2-20, C7-PRC-20

Admissions Criteria

1) SGCSE/equivalent with minimum Credit (C) in 5 subjects including English and Mathematics.

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

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