

- B8-ENT-11: Essentials of Entrepreneurship (20)
- E8 - ISD - 17: Innovation for sustainable development (20)

Recommended full-time study path (4½ years):

Semester 1:

- C5 - ICO - 11, C5 - MAT - 11, D5 - CSS - 14

Semester 2:

- C5 - CSA - 11, C5 - OSH - 11, C5 - DMA-19

Semester 3:

- C6 - QMD - 11, C6 - IPC - 11

Semester 4:

- C6 - DCN - 19, C6 - LIE - 19, C6 - WDD - 19

Semester 5:

- C7 - JAV - 11, C7 - MDC - 19, C7 - MOS - 13

Semester 6:

- C7 - WNM - 13, C7 - MDP - 13, C7 - MTE - 13

Semester 7:

- C7 - PPR - 11

Semester 8:

- C8 - MID - 13, C8-WMS-19 Select one from (C8 - DIS - 13, C8-MIA-13)

Semester 9:

- C8 - PRO - 11, Elective (B8 - ENT - 11, E8 - ISD - 17)

Admissions Criteria

1) Applicants are expected to have successfully completed secondary schooling. The typical entry requirement is LGCSE or other equivalent secondary school qualification.

2) LGCSE/equivalent with a minimum of 5 subjects of which 3 Credits (C), 2 Pass (D) including minimum Pass (D) in English, Pass (D) in Mathematics

3) Applicants in possession of a Diploma or Higher Diploma in related field may be given exemptions based on the credit

point equivalency.

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

**Bachelor of Science in
Computer Networking**

Programme details:

This programme consists of core modules (required) which are combination of 10 credit and 20 credit modules, Elective modules and 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 core requisite (i.e. such modules are required to be taken together). 1 credit is equal to 10 hours of learning (guided, in-class and independent combined); therefore a 10-credit module requires on average 50 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)
- C6-PIE-20: Professional Issues and Ethics (10)
- C5-OSH-11: Operating Systems and Hardware (20)
- C6-NEF-20: Networking Fundamentals (20)
- C6-DBC-20: Database Concepts (10)
- D6-AWS-20: Academic Writing for STEM (10)
- C6-CE2-20: Computer and its Essentials 2 (10)
- C6-CSA-20: Computer System Architecture (10)
- C6-MDW-20: Managing Business Desktops using Windows (10)
- C6-PUC-20: Programming using C++ (20)
- C6-NSE-20: Network Security (10)
- C6-RSW-20: Routing and Switching (10)
- C6-RSL-20: Routing and Switching Lab (10)
- C6-WDD-20 : Web Design and Development (10)
- C6-WDP-20 : Web Design Practice Lab (10)
- C6-EOL-20: Essentials of Linux (10)
- C6-DSA-20: Data Structures and Algorithm (10)

- C6-SCN-20: Scaling Networks (20)
- C7-LVWD-20: LAN and WAN design (10)
- C7-LVWL-20: LAN and WAN design Lab- 1 (10)
- C7-WNS-20: Wireless Networks (10)
- C7-ITM-20: IT Infrastructure Management (10)
- C7-PNA-20: Principles of Network Administration (20)
- C7-RMS- 20: Research Methods for STEM (10)
- C7-IPR-20: Implementing IP Routing (10)
- C7-ISM-20: IT Service Management (10)
- C7-DAS-20: Database Administration and Security (20)
- B8-ENI-20: Entrepreneurship and Innovation (20)
- C7-ISN-20: IP Switched Networks (10)
- C7-RP1-20: Research Project 1 : Proposal Writing (10)
- C7-SDN-20: Software Defined Network Engineering (10)
- C7-PPC- 20 : Professional Practice in Computing (40)
- C8-RP2-20 : Research Project 2: Dissertation (20)

Elective modules:

Select one from the following:

- C7-EIN-20: Enterprise and ISP Network Solutions (10)
- C7-CCS-20: Cloud Computing and Security (10)
- C7-SDE-20: Security by Design (10)

Select one from the following:

- C8-MAS-20: Media and Storage (10)
- C8-CYO-20: Cybersecurity Operations (10)
- C8-TRS-20: Troubleshooting Routing and Switching (10)

Recommended full-time study path

Semester 1:

- C5-CE1-20, C5-PLD-20, C5-MAT-20, C6-PIE-20, C5-OSH-11

Semester 2:

- C6-NEF-20, C6-DBC-20, D6-AWS-20, C6-CE2-20, C6-CSA-20

Semester 3:

- C6-MDW-20, C6-PUC-20, C6-NSE-20, C6-RSW-20, C6-RSL-20

Semester 4:

- C6-WDD-20, C6-WDP-20, C6-EOL-20, C6-DSA-20, C6-SCN-20

Semester 5:

- C7-LWD-20, C7-LWL-20, C7-WNS-20, C7-ITM-20, C7-PNA-20

Semester 6:

- C7-RMS- 20, C7-IPR-20, C7-ISM-20, C7-DAS-20, Select one from (C7-EIN-20, C7-CCS-20, C7-SDE-20)

Semester 7:

- B8-ENI-20, C7-ISN-20, C7-RP1-20, C7-SDN-20, Select one from(C8-MAS-20, C8-CYO-20, C8-TRS-20),

Semester 8:

- C7-PPC-20, C8-RP2-20

Admissions Criteria

1) Applicants are expected to have successfully completed secondary schooling. The typical entry requirement is LGCE or other equivalent secondary school qualification.

2) LGCE/equivalent with a minimum of 5 subjects of which 3 Credits (C), 2 Pass (D) including minimum Pass (D) in English, Pass (D) in Mathematics

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

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

Program Version Course List



<u>Course Code</u>	<u>Course Description</u>	<u>Credits</u>	<u>Elective List</u>	<u>Pre-Requisite List</u>	<u>Co-Requisite List</u>	<u>PreElect</u>	<u>ResourceList</u>
<u>MCO-8BH-19 Bachelor of Science (Honours) in Mobile Computing</u>				Weeks :234.00			
Core				Credits :540.00			
C5-CSA-11	Computer System Architecture	20.00					
C5-ICO-11	Introduction to Computers	20.00					MSOF10 - Microsoft Office 2010
C5-MAT-11	Mathematics -I	20.00					
C5-OSH-11	Operating Systems and Hardware	20.00					STDOS - Standard OS
C6-DMA-19	Discrete Mathematics	20.00					
C7-PPR-11	Professional Practice	60.00					
D1-FYE-16	BGP workshops	0.00					
D5-CSS-14	Communication and Study Skills	20.00					
C6-QMD-11	Querying and Managing Databases	40.00		C5-ICO-11 - Introduction to Computers			MSSQL12 - Microsoft SQL server 2012
C6-WDD-19	Web Design and Development	20.00		C5-ICO-11 - Introduction to Computers C6-CE2-20 - Computer and its Essentials 2			
C6-IPC-11	Introduction to Programming Using C++	20.00		C5-MAT-11 - Mathematics -I			TURC++ - Turbo C++, MSOF10 - Microsoft Office 2010
C6-DCN-19	Data Communications and Computer Networking	20.00		C5-OSH-11 - Operating Systems and Hardware			
C6-LIE-19	Linux Essentials	20.00		C5-OSH-11 - Operating Systems and Hardware			
C7-MDC-19	Mobile Data Communications	20.00		C5-OSH-11 - Operating Systems and Hardware			
C7-MOS-13	Mobile Operating System	20.00		C5-OSH-11 - Operating Systems and Hardware			
C7-JAV-11	Programming Using JAVA	20.00		C6-IPC-11 - Introduction to Programming Using C++ C5-ICO-11 - Introduction to Computers			NBEN8.1 - Netbeans 8.1
C7-MTE-13	Mobile Technologies	20.00		C6-MDC-13 - Mobile Communications C7-MDC-19 - Mobile Data Communications			
C7-WNM-13	Wireless Networks and Mobile System Architecture	20.00		C6-MDC-13 - Mobile Communications C7-MDC-19 - Mobile Data Communications			
C7-MDP-13	Mobile Device Programming	20.00		C7-JAV-11 - Programming Using JAVA			JM2EMU - J2ME Emulator, NBEN8.1 - Netbeans 8.1
C8-MID-13	Mobile Interaction Design	20.00		C7-MTE-13 - Mobile Technologies			
C8-PRO-11	Project	40.00		C7-PPR-11 - Professional Practice			
C8-WMS-19	Wireless and Mobile Networking Security	20.00		C7-WNM-13 - Wireless Networks and Mobile System Architecture			

<u>Course Code</u>	<u>Course Description</u>	<u>Credits</u>	<u>Elective List</u>	<u>Pre-Requisite List</u>	<u>Co-Requisite List</u>	<u>PreElect</u>	<u>ResourceList</u>
Elective							
ELEC	Elective 1	20.00	C8-MEC-13 - Mobile Electronic Commerce, C8-MIA-13 - Mobile Internet Applications and Services, C8-DIS-13 - Distributed System			C6-MDC-13 - Mobile CommunicationsC 7-MDC-19 - Mobile Data Communications, C7-WNM-13 - Wireless Networks and Mobile System Architecture, C7-DCO-13 - Data Communications	
ELEC	Semester 9 Electives	20.00	B8-ENT-13 - Essentials of Entrepreneurship, E8- ISD-18 - Innovation for Sustainable Development, C8-APD-20 - Analytical Product Design				
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24		540.00					
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