

Bachelors of Science in Computing

Programme details:

The programme consists of core (required) and elective modules as follow. Some modules may have pre-requisites (i.e. may require the student to pass another module or set of modules first). 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. B.Sc. (Hons) in Computing has three specialisation areas including: Software Engineering (SE), Network & Infrastructure Management (NW&IM) and General.

Core modules:

- C5 - ICO - 11: Introduction to Computers (20)
- C5 - MAT - 11: Mathematics – 1 (20)
- D5 - CSS - 14: Communication and Study Skills (20)
- C5 - CSA - 11: Computer System Architecture (20)
- C5 - OSH - 11: Operating Systems & Hardware (20)
- C6 - DMA - 19: Discrete Mathematics (20)
- C6 - QMD - 11: Querying and Managing Databases (40)
- C6 - IPC - 11: Introduction to Programming using C++ (20)
- C6 - DMO - 11: Database Management using Oracle (20)
- C6 - MD1 - 11: Managing Business Desktops 1 (20)
- C6 - WCD - 11: Web Content Development (20)
- C7 - JAV - 11: Programming using Java (20)
- C7 - MD2 - 11: Managing Business Desktops 2 (20)
- C7 - ITP - 11: IT Project Management (20)
- C7 - DSA - 11: Data Structures and Algorithms (20)
- C7 - ADJ - 11: Advanced Java (20)
- C7 - NH1 - 11: Managing Network Hardware 1 (20)
- C7 - WN1 - 11: Windows Network Administration 1 (20)
- C7-PPR-11: Professional Practice (60)
- C8 - IDE - 11: Interaction Design (20)
- C8 - LNA - 11: Linux Network Administration (20)

- C8 - NH2 - 11: Managing Network Hardware 2 (20)
- C8 - WN2 - 11: Windows Network Administration 2 (20)

Elective modules:

Select one from the following:

- E8 - ISD - 18 : Innovation for sustainable development (20)
- B8 - ENT - 11: Essentials of Entrepreneurship (20)

Select any two from the following:

- C7 - SEN - 11: Software Engineering (20)
- C7 - PN1 - 11: Programming using .Net 1 (20)
- C7 - CP1 - 11: Designing Creative Publications 1 (20)

Select one from the following:

- C8 - MAD - 11: Mobile Application Development (20) or
- C8 - 3DD - 11: 3D Design (20)

Select one from the following:

- C8 - CP2 - 11: Designing Creative Publications 2 (20) or
- C8 - PN2 - 11: Programming using .Net 2 (20)

Recommended full-time study path for Software Engineering specialisation (4½ years):

Semester 1:

- C5 - ICO - 11, C5 - MAT - 11, D5 - CS5 - 14

Semester 2:

- C5 - CSA - 11, C5 - OSH - 11, C6 - DMA - 19

Semester 3:

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

Semester 4:

- C6 - DMO - 11, C6 - MD1 - 11, C6 - WCD - 11

Semester 5:

- C7 - JAV - 11, Electives any two (C7 - SEN - 11, C7 - PN1 / C7 - CP1)

Semester 6:

- C7 - ITP - 11, C7 - DSA - 11, C7 - ADJ - 11

Semester 7:

- C7 - PPR - 11

Semester 8:

- C8 - IDE - 11, First Elective select any one (C8 - MAD - 11/C8 - 3DD - 11), Second

FACULTY OF ENGINEERING AND TECHNOLOGY (CONTINUED)

Elective select any one (C8 - CP2 - 11/C8 - PN2 - 11)

Semester 9:

C8 - PRO - 11, Elective select anyone (B8 - ENT - 11, E8 - ISD -18)

Recommended full-time study path for Network & Infrastructure Management specialisation (4½ years):

Semester 1:

- C5 - ICO - 11, C5 - MAT - 11, D5 - CS5 - 14

Semester 2:

- C5 - CSA - 11, C5 - OSH - 11, C6 - DMA - 19

Semester 3:

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

Semester 4:

- C6 - DMO - 11, C6 - MD1 - 11, C6 - WCD - 11

Semester 5:

- C7 - JAV - 11, C7 - PIS - 11, C7 - MD2 - 11

Semester 6:

- C7 - ITP - 11, C7 - NH1 - 11, C7 - WN1 - 11

Semester 7:

- C7 - PPR - 11

Semester 8:

- C8 - LNA - 11, C8 - NH2 - 11, C8 - WN2 - 11

Semester 9:

C8 - PRO - 11, Elective select anyone (B8 - ENT - 11, E8 - ISD -18)

Recommended full-time study path for General specialisation (4½ years):

Semester 1:

- C5 - ICO - 11, C5 - MAT - 11, D5 - CS5 - 14

Semester 2:

- C5 - CSA - 11, C5 - OSH - 11, C6 - DMA - 19

Semester 3:

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

Semester 4:

- C6 - DMO - 11, C6 - MD1 - 11, C6 - WCD - 11

Semester 5:

- C7 - JAV - 11, Select one from Software (C7 - SEN - 11/C7 - PN1/C7 - CP1) and Select one from NW & IM (C7 - PIS - 11/C7 - MD2 - 11)

Semester 6:

- C7 - ITP - 11 Select one from Software (C7 - DSA - 11/C7 - ADJ - 11) and Select one from NW & IM (C7 - NH1 - 11/C7 - WN1 - 11)

Semester 7:

- C7 - PPR - 11

Semester 8:

- C8 - IDE - 11, Select one from Software (C8 - MAD - 11/C8 - 3DD - 11/ C8 - CP2 - 11/C8 - PN2 - 11) and Select one from NW & IM (C8 - LNA - 11/C8 - NH2 - 11/C8 - WN2 - 11)

Semester 9:

C8 - PRO - 11, Elective select anyone (B8 - ENT - 11, E8 - ISD -18)

Admissions Criteria

1) Application are expected to have successfully completed secondary schooling. The typical entry requirement for any Diploma or Bachelors programme is SGCSE, IGCSE, or other equivalent secondary school qualification. SGCSE and IGCSE candidates are required to achieve a minimum grade of 'C' or above in 5 subjects."

2) Applicants must have 10 points in English and Mathematics combined or 32 points in the top 5 subjects.

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

