

## MSc in Information Systems Management

The programme is generally focused on the technical, organizational and management knowledge and skills to qualify them as Information Systems Management professionals. The curriculum is designed to have appropriate modules, both theoretical and practical, at all levels such as the introductory, intermediate, and advanced levels based on the body of knowledge for Information Systems Management. The MSc Information Systems Management programme is designed for the students through a rigorous learning process to prepare professionally trained graduates for the Industry, Education and various avenues which covers an array of contemporary concepts, methods and topics, and hence obtaining useful hands-on expertise essential within the fast-changing environment of Information Systems Management and further affording post graduates an opportunity to pursue related careers or further academic research.

### Programme details:

The programme consists of core (required) and elective modules as indicated below. Some modules may have pre-requisites (i.e. may require students to pass another module or set of modules first). Some modules may be co-requisite (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 an average of 100 hours of learning from the student.

### Core modules:

- C9-BDM-20: Big Data Management (20)
- C9-SDG-20: System Development Management and Governance(20)
- C9-ISM-20: Information Security Management(20)
- C9-IPM-20ICT: Project Management (20)
- C9-PIM-20: Principles of Information Technology Management (20)
- C9-MIS-20: Management Information Systems (20)
- C9-RPP-20: Research Project 1: Proposal Writing (20)

- C9-DIS-20: Research Project 2: Dissertation (60)

### Elective Modules:

#### Select two from the following

- C9-IFM-20Infrastructure Management(20)
- C9-ICM-20ICT Strategic Management (20)
- C9-CMS-20Content Management Systems (20)
- C9-DAN-20Data Analytics(20)
- C7-BDT-22: Big Data Technologies(9)
- C7-AAI-22: Advanced Artificial Intelligence (9)

### Recommended full-time study path (2 years):

The duration of this programme is two years and will be offered in Blended and Distance Learning. During study, students must undergo coursework and dissertation.

#### Semester 1:

- C9-BDM-20, C9-SDG-20, C9-IFM-20, C9-ICM-20

#### Semester 2:

- C9-ISM-20, C9-IPM-20, C9-CMS-20, C9-DAN-20

#### Semester 3:

- C9-PIM-20, C9-MIS-20, C9-RPP-20

#### Semester 4:

- C9-DIS-20

### Admissions Criteria

Entry into this qualification is through any one of the following requirements:

- 1)** The minimum admission requirement is a bachelor's degree Honors in Computing/ Computer Science / Information Technology or any computer related field.
- 2)** A Post-Graduate Diploma (NCQF level 8) in the field of study (Computing) may also meet admission requirements provided that at least 20 credits at level 8 have been allocated to research methodology within or additional to the qualification.
- 3)** Applicants that do not meet the above criteria but possess relevant industry experience will be considered through recognition of prior learning (RPL).
- 4)** For enquiries and more information please visit our website: [www.bothouniversity.com](http://www.bothouniversity.com)

# FACULTY OF ENGINEERING AND TECHNOLOGY (CONTINUED)

- C7 - ITP - 11, C8 - NH2 - 11, C7 - WN1 - 11

## **Semester 7:**

- C7 - PPR - 11

## **Semester 8:**

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

Elective: Select any one: (C8 - AIN - 19, C8 - CLC - 19)

## **Semester 9:**

- C8 - PRO - 11, Elective (one of B8 - ENT - 13, E8 - ISD - 18, C8 - APD - 20)

## **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 - LIE - 11, C6 - WDD - 19

### **Semester 5:**

- C7 - JAV - 11, C7 - SEN - 11 Select one from Software (C7 - PN1-11/C7-CP1-11) Networking (C7 - MD2 - 11/C7-NH1-11)

### **Semester 6:**

- C7 - ITP - 11, Select one from Software (C7 - DSA - 11/C7 - ADJ - 11) , Select one from Networking (C8-NH2-11/C7-WN1-11)

### **Semester 7:**

- C7 - PPR - 11

### **Semester 8:**

- C8 - IDE - 11, Select one from Software (C8 - MAD - 11/C8 - 3DA - 14/ C8 - CP2 - 11/C8 - PN2 - 11) and Select one from Networking (C8 - AIN - 19/C8 - CLC - 19/ C8 - LNA - 1/C8 - WN2-11)

### **Semester 9:**

- C8 - PRO - 11, Elective (one of E8 - ISD - 18, B8 - ENT - 13, C8 - APD - 20)

## **Admissions Criteria**

**1)** Applicants are expected to have successfully completed secondary schooling. The typical entry requirement is BGCSE or IGCSE (in Botswana), LGCSE (in Lesotho) or other equivalent secondary school qualification.

**2)** BGCSE/equivalent with minimum Pass (D) in 5 subjects including English and 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**





14-07-2022

<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>
ISM-9MA-22	MSc in Information Systems Management			Weeks:80.00 Credits: 0.00			
<u>Core</u>							
C9-BDM-22	Big Data Management	20.00					
C9-IPM-22	ICT Project Management	20.00					
C9-MIS-22	Management Information System	20.00					
C9-PIM-22	Principles of Information Technology Management	20.00					
C9-RPP-15	Research Methods and Project Planning	20.00					
C9-SDG-22	System Development management and Governance	20.00					

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C9-PWD-15	Project work Dissertation	60.00		C6-DCN-15 - Data Communication and Networking C6-IWP-15 - Internet and Web Programming C5-SOE-15 - Software Engineering Foundations C6-SQA-15 - Software Quality and Assurance C7-MIS-15 - Management Information Systems C7-SAD-15 - Systems Analysis and Design C9-CNS-15 - Computer Network Security C9-DBS-15 - Database System C9-EAI-15 - Enterprise Application Integration C9-PRM-15 - Project Management C9-RPP-15 - Research Methods and Project Planning C9-BDM-22 - Big Data Management C9-CMS-22 - Content Management Systems C9-DAN-22 - Data analytics C9-ICM-22 - ICT Strategic Management C9-IFM-22 - Infrastructure Management C9-IPM-22 - ICT Project Management C9-ISM-15 - Information Security Management C9-MIS-22 - Management Information System C9-PIM-22 - Principles of Information Technology Management C9-RPP-15			

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C9-ISM-15	Information Security Management	20.00		- Research Methods and Project Planning C9-SDG-22 - System Development management and Governance C9-CNS-15 - Computer Network Security			
<b>8</b>		<b>200.00</b>					
<b>Elective</b>							
*ELEC*	Semester 1 Electives	20.00	C9-IFM-22 - Infrastructure Management, C9-ICM-22 - ICT Strategic Management				
*ELEC*	Semester 2 Electives	20.00	C9-CMS-22 - Content Management Systems, C9-DAN-22 - Data analytics				
<b>2</b>		<b>40.00</b>					
<b>10</b>		<b>240.00</b>					