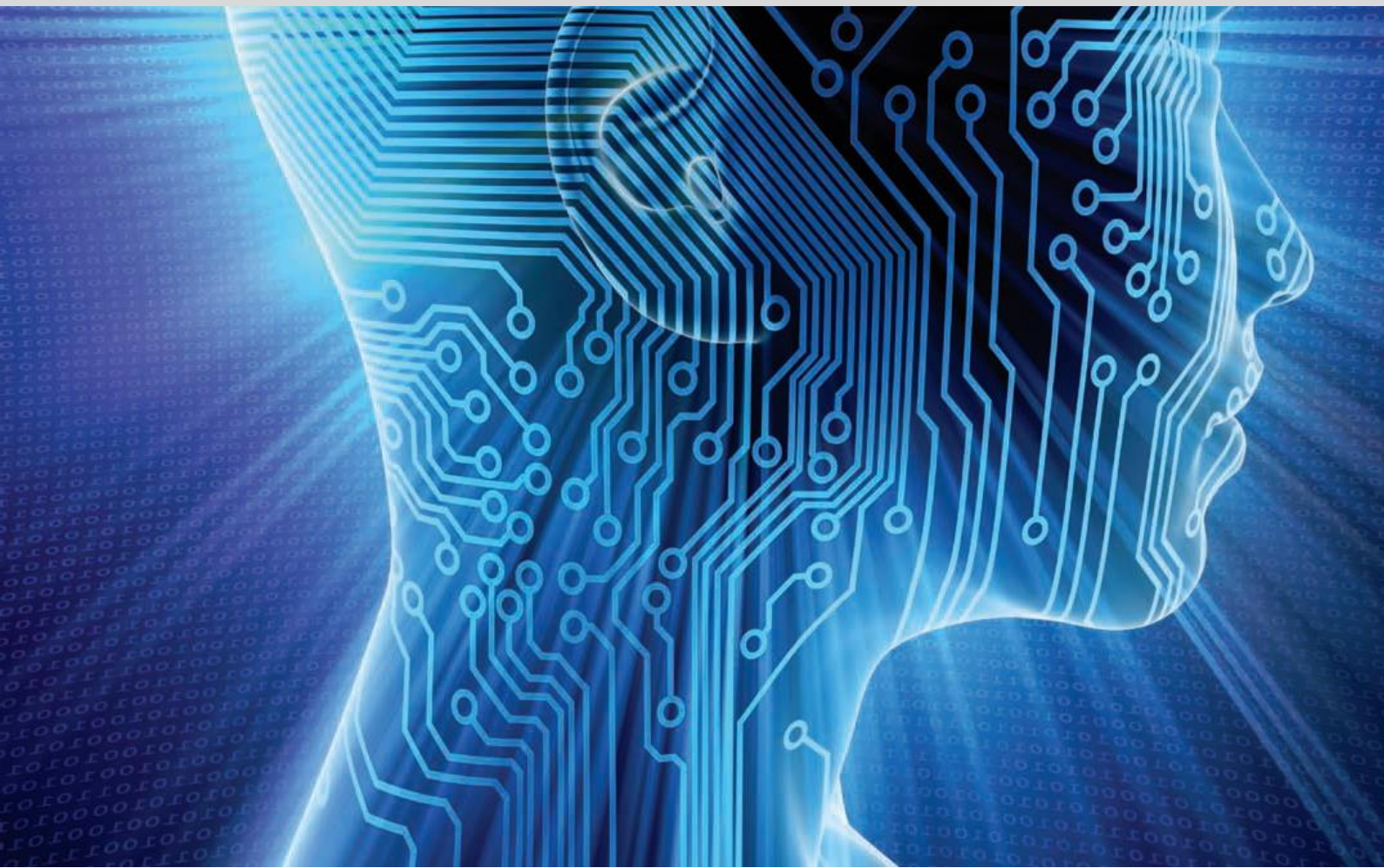




**BSc (Hons) IT
NETWORKING AND
SOFTWARE ENGINEERING**

2018



NEED FOR THE PROGRAMME

Information Technology is a key component in diversifying and growing economies around the world. Governments across the globe are using Information Technology to educate and empower their communities. IDM has integrated ICT in all its long term programs which cover a broad spectrum of disciplines including business, education and health to ensure that its graduates leave the institution with critical skills for the economy.

Most importantly, IDM has been offering professional diplomas in computing through UK based NCC education over the years, and for the past few years has enabled its ICT graduates access to bachelor's degrees in computing through partnership with external universities. The issues of relevance to the local context, affordability and sustainability have emerged resulting in the need to consider developing local and context specific program while maintain the rigor of international standards.

COURSE APPROVAL

DURATION

BSc (Hons) IT Networking and Software Engineering is a 2 year part-time program.

SWAZILAND

LESOTHO

BOTSWANA

PROGRAMME AIM AND OBJECTIVES

3.1: Program Aim

BSc (Hons) IT Networking and Software Engineering program is designed to develop specific skills and knowledge required by a computer or IT technician, both in a support or in a development role in diverse settings. The program aims to develop individuals who can integrate and critically understand the current and relevant issues in the IT industry, and effectively assume technical leadership roles in their areas of work to enhance optimal utilization of IT solutions.

3.2: Program Objectives

After completing the BSc (Hons) IT Networking and Software Engineering, participants should be able to:

- i. Apply knowledge and understanding of information technology and management to complex issues, both systematically and creatively, to improve computer and information technology practice
- ii. Advance the study of computer systems and their management within their ever changing external context in which they operate
- iii. Understand the social, legal and ethical context within which a computing professional is expected to operate, and of the standards that will be expected of them when they graduate
- iv. Enhance their lifelong learning skills and personal development that will promote a career in Information technology through self- directed study to effectively contribute to the country's economy and society at large

CAREER PROSPECTS

The graduates of the BSc (Hons) IT Networking And Software Engineering can be employed in government, private sector or non- governmental organizations as Information Technology Technicians, Software Developers, Systems Analysts, Project Managers, Systems Administrators, Network Administrators, Help Desk Support Officers, IT Managers and Application Administrators.

Entry requirements

The normal entry requirement into the program shall be:

- Diploma in IT or related discipline from a recognized and accredited institution
- or work related experience in IT or
- An assessed equivalent entry qualification, which may include Recognition of Prior Learning (RPL)

PROGRAMME STRUCTURE

BSc (Hons) IT Networking and Software Engineering comprises of the following modules:

Year 3: Semester 1

Core

1. Server Management and Administration Infrastructure
2. Advanced Database Management Systems
3. Cloud Computing

Elective modules

4. Computer Forensics
5. Multimedia- Designing and Creative Publications-I
6. Mobile Computing

Year 3: Semester 2

Core

1. Electronic Business
2. Advanced Networks
3. Agile Development

Elective Modules

1. Mobile Computing
2. Computer Forensics
3. Multimedia- Designing and Creative Publications-2

Year 4: Semester 1

1. Business Modeling
2. Project Management
3. Networking Standards and Protocols
4. Software Engineering

Year 4: Semester 2

Internship / Project

Internship

It is a requirement that student find and go for internship in their last semester of study. Students will be tasked with finding internship for themselves and the institution will provide assistance/support in cases where there are openings in companies that have enquired through the institution. Students will be allocated supervisors who will visit the student twice during their internship stay. The internship will run for five (5) months.

ASSESSMENT AND EVALUATION

YEAR 3

CODE	SEMESTER 1	CR EDI TS	CODE	SEMESTER 2	CR EDI TS
APSI501	Server Management and Administration Infrastructure	10	EBUI504	Electronic Business	10
SMAI1502	Advanced Database Management Systems	10	NSPI505	Advanced Network Security	10
COCI503	Cloud Computing	10	AGDI506	Agile Development	10
	Elective Modules	10		Elective Module	10
Total Credits		40	Total Credits		40

YEAR 4

CODE	SEMESTER 1	CR EDI TS	CODE	SEMESTER 2	CR EDI TS
BMI512	Business Modeling	10	PRJ1520	PROJECT/INTERNSHIP	40
PRMI511	Project Management	10			
NCSI510	Networking Standards and Protocols	10			
SOEI508	Software Engineering	10			
Total Credits		40	40		

- Modules shall be assessed by Course work (mid-semester exam), Assignment and a final (end-semester) examination paper for each of the courses studied.
- Course work component of the BSc (Hons) IT Networking and Software Engineering shall be assessed by continuous assessment (CA) based on one written tests (mid-semester exam) (10%), one Assignment (25%).
- There will be a mandatory examination at the end of semester which will contribute to 60% of the final assessment grade.
- Attendance will constitute to 5% of the total assessment mark
- Students who fail shall be required to sit for a supplementary examination
- IT Project will be assessed as a module weighing 100%.
- Students must achieve at least 50% in each of the modules

9. EXAMINATION

- There will be formal examinations for the taught courses at the end of each semester. Each paper will take 2 hours 30 minutes of examination time.

AWARD OF THE BSc (Hons) IT Networking and Software Engineering

To be awarded the BSc (Hons) IT Networking and Software Engineering the student must achieve a minimum of 50% in all the courses registered and required for the course.

To graduate candidates must meet the 120 minimum credits requirement for the BSc (Hons) IT Networking and Software Engineering. The transfer of credits to this program is to be considered on an individual basis in line with IDM Academic Regulations 8.5 & 8.6.



Lesotho



Peete Masupha
IT Consultant
Institute of Development Management
Lesotho Campus, Plot 129, Moshoeshoe
Road
P.O. Box 1318
Maseru, Lesotho
100

Tel. +266 22312868
Fax: +266 2231 0084
masuphap@idm.co.ls

Galamoyo Phillime
Senior Consultant
Institute of Development Management
Botswana Campus, Plot Nos. 21222,
21254, Mobuto Road
P.O. Box 1357 Gaborone, Botswana
Tel: +267 361 2124
Fax: +267 3913296
gphillime@idmbls.com



Lingani Moya
Information Technology Officer
Francistown, Botswana
Tel. No. (+267) 241 0300 Extn. 212
Fax. No. (+267) 241 0315
Mobile: +267 7502 5458
Mobile: +267 71341851
LMoya@idmbls.com



Emmanuel Lungile Howe
Senior Consultant
Institute of Development Management
(IDM)
P. O. Box 1534
Mbabane, Swaziland
Tel: +268 25504085
Cell: +268 76443038
elhowe@idmbls.ac.sz