

BSc (Hons) Information Systems (FT) - IC311

1. Introduction

The field of Information systems (IS) focuses on technology-enabled business development whereby IS professionals require both technical and organisational expertise for systems analysis and design, business process management, systems implementation, and IS project management. Information systems facilitate and influence business operations and innovation, thus contributing to create new business models and services.

The programme of study will impart to prospective students the knowledge and analytical skills to develop and manage business information systems with adequate understanding of the required concepts, technology and the organisational environment. This course integrates business and information, as well as computing technology, to deal with analysis, design, implementation and management of information systems.

The programme is in line with international recommendations of computing curricula for Undergraduate Degree Programs in Information Systems and designed with Industry collaboration.

2. Objectives

The programme has been designed to enable students to:

- have a deep understanding of the business and professional responsibilities related to the use of information systems in organizations;
- effectively use and administrate Information Systems in different business settings;
- demonstrate the ability to be a productive team member in a business systems development project requiring analysis and design, project management and implementation skills customized to the businesses architecture;
- acquire and apply analytical skills which will enable them to visualize a complex business problem and make informed decisions based on available information and technology resources;
- apply problem solving skills which will allow them to model information systems solutions for business problems.

3. General Entry Requirements

As per General Entry Requirements for admission to the University for Undergraduate Degrees.

4. Programme Requirements

At least 2 GCE 'A' level Passes and Credit in Mathematics at SC/'O' level

5. Minimum Requirements for Degree Awards

(i) Degree Award

For the degree award in BSc (Hons) Information Systems, the student must obtain at least 105 credits including:

Modules	Credits
Minimum Credits for Core Modules	87
Minimum Credits for Electives Modules	12
Final Year Project	9
Industrial Training	0
TOTAL	108

(ii) Diploma Award

The Diploma is provided as a possible exit point in the programme. To be able to exit with a Diploma in Information Systems, a student must have attained 60 credits, which satisfy requirements specified by University regulations for Exit Points. A student may also opt to complete a Diploma project, worth 6 credits, to attain the 60 credits. The assessment of the Diploma project will be based on project report, presentation and software/system demo. Written requests to exit with Diploma should be made to the Dean of Faculty.

6. Programme Duration

	Normal (Years)	Maximum (Years)
Degree:	3	5

7. Credits Per Year

Students may register for a maximum of 48 credits and a minimum of 6 credits, per year.

8. Classification of Awards

The award classification will be based on the CPA (x) at the end of the Programme of Studies as follows:

CPA (Cumulative Point Average)	Classification
≥ 70	1 st Class with Honours
$60 \leq x < 70$	2 nd Class 1 st Division with Honours
$50 \leq x < 60$	2 nd Class 2 nd Division with Honours
$45 \leq x < 50$	3 rd Class with Honours
$40 \leq x < 45$	Pass
< 40	No Awards

9. Pre-Requisite Modules (PR)

A student will be allowed to follow module y of which module x is a pre-requisite (PR) provided he/she has **satisfactorily completed module x with at least a pass grade.**

10. Assessment and Pass Requirements

The assessment mode for each module will be based on one or a combination of the following:

- Examination
- Continuous Assessment (class tests, assignments, activities, practicals, and oral presentations)
- Report Assessment (Final Year Project)
- Software Evaluation (Demo of Final Year Project)
- Portfolio Evaluation (Industrial Training)

An overall total of at least 40% for combined continuous assessment and written examination components would be required to pass the module.

Calculation of the final mark: The continuous assessment must account for no less than 30% and for no more than 50% of final mark, with the exception of modules like Final Year and Diploma Project. The specific details and/or formula for the calculation of the final mark are given in the Module Specification Sheet (MSS) for each module. Students have to retake both continuous assessment and exams in the failed modules.

If CPA of a student is less than 40%, the latter will have to repeat the entire academic year, and retake the modules as and when offered. However, students will not be required, if they wish, to retake modules for which Grade C or above has been obtained. Students are allowed to repeat (a year) only once over the entire duration of the Programme of Studies.

Industrial Training will be assessed as either “Satisfactory” or “Unsatisfactory”.

11. Duration of Examinations

The written examination will be of 3 hours duration for yearly modules carrying 6 credits.

12. Termination of Registration

Termination of registration will occur in the following circumstances:

- If a student’s CPA remains below 40 at the end of an academic year and the student has already repeated one year of study, unless decided otherwise by Senate.
- If the student does not successfully complete all the modules prescribed for the programme in a total of 5 years.

13. List of Modules

Module Code	Module Name
CORE	
ICDT 1016Y(1)	Communication and Business Skills for IT
SIS 1025Y(1)	Foundations of Information Systems
SIS 1026Y(1)	Databases and Information Management
SIS 1027Y(1)	System Analysis and Design
SIS 1028Y(1)	Application Development
SIS 1037Y(1)	Analytical Techniques for Information Systems
SIS 2024Y(3)	Object-Oriented Programming
SIS 2025Y(3)	Enterprise Systems
SIS 2026Y(3)	Information Systems Innovations and Web Technologies
SIS 2027Y(3)	Information Systems Audit and Controls
SIS 2043Y(3)	Software Project Management
SIS 2047Y(3)	E-business and Digital Marketing
WCS 2200(3)	Writing Case Studies
ICDT 2200	Industrial Training
SIS 3000Y(5)	Final Year Project
SIS 3124Y(5)	Business Intelligence and Big data analytics
SIS 3125Y(5)	Information Retrieval and Knowledge Engineering
ELECTIVES	
SIS 3070Y(5)	Enterprise Architecture and Integration
SIS 3073Y(5)	Enterprise Application Development
SIS 3118Y(5)	Information Systems Security
ICT 3126Y(5)	Network Information Systems

14. Programme Plan

Year 1 Semester 1 & 2				
Module Code	Module Name	UoM Credits	Hrs/Week L+P	PR
ICDT 1016Y(1)	Communication and Business Skills for IT	6	3+0	
SIS 1025Y(1)	Foundations of Information Systems	6	2+2	
SIS 1026Y(1)	Databases and Information Management	6	2+2	
SIS 1027Y(1)	System Analysis and Design	6	3+0	
SIS 1028Y(1)	Application Development	6	2+2	
SIS 1037Y(1)	Analytical Techniques for Information Systems	6	3+0	
	Total	36		
Year 2 Semester 1 & 2				
Module Code	Module Name	UoM Credits	Hrs/Week L+P	PR
SIS 2024Y(3)	Object-Oriented Programming	6	2+2	
SIS 2025Y(3)	Enterprise Systems	6	2+2	
SIS 2026Y(3)	Information Systems Innovations and Web Technologies	6	2+2	
SIS 2027Y(3)	Information Systems Audit and Controls	6	3+0	
SIS 2043Y(3)	Software Project Management	6	3+0	
SIS 2047Y(3)	E-business and Digital Marketing	6	2+2	
WCS 2200(3)	Writing Case Studies	3	-	
ICDT 2200	Industrial Training	0	-	
	Total	39		
Year 3 Semester 1 & 2				
Module Code	Module Name	UoM Credits	Hrs/Week L+P	PR
CORE				
SIS 3000Y(5)	<i>Final Year Project</i>	9		
SIS 3124Y(5)	Business Intelligence and Big data analytics	6	2+2	
SIS 3125Y(5)	Information Retrieval and Knowledge Engineering	6	3+0	SIS 2026Y(3)
ELECTIVES	Choose TWO (2) modules from:			
SIS 3070Y(5)	Enterprise Architecture and Integration	6	2+2	SIS 2025Y(3)
SIS 3073Y(5)	Enterprise Application Development	6	2+2	SIS 2024Y(3)
SIS 3118Y(5)	Information Systems Security	6	2+2	
ICT 3126Y(5)	Network Information Systems	6	2+2	
	Total	33		

Note:

- (i) The University reserves the right not to offer a given elective module if the critical number of students is not attained and/or for reasons of resource constraints.
- (ii) WCS2200 comprises 9 contact hours and 36 hours of self-study.