

GOALS OF THE PROGRAMME

By the end of the course, the graduate should be able to:

- ❖ Have ability to use industry standard computer software and hardware.
- ❖ Get equipped with problem solving skills and can adapt to a fast changing technological world.
- ❖ Assist in system administration and networking in areas such as, production research, consultancy, and education.
- ❖ Progress academically to higher levels of education into relevant degree courses

GENERAL REGULATIONS

- ❖ The University regulations shall apply.
- ❖ No candidate shall be registered for the Bachelor of Science in Information Technology degree without satisfying the minimum university requirements.

PROGRAMME DURATION AND COURSE STRUCTURE

The BSc in Information Technology course shall be offered in EIGHT academic semesters organized in THREE academic years. A student will be deemed to have passed an academic semester after successful completion of all the units in the semester. At the end of Year II, a student who will have completed and passed all the units shall undertake and pass Internal Industrial attachment for eight (8) weeks. There shall be an external attachment of EIGHT (8) weeks at the end of Year III semester. At the end of Year II, a student who will have completed and passed all the units shall undertake and pass Internal Industrial attachment for eight (8) weeks. There shall be an external attachment of EIGHT (8) weeks at the end of Year III.

- Each semester will have a maximum of nine (9) units and a minimum of eight (8) units.
- Courses shall be offered in terms of units, one unit being defined as a series of 45 CONTACT HOURS comprising a total of 30 lecture hours and 45 practical hours. For this Course Purpose a one-hour lecture is equivalent to a two-hour tutorial or a three-hour practical period, or an equivalent amount of other assigned study of practical experience or any combination of these that may be approved by the Senate.

- To qualify for the award of the Degree of Bachelor of Science in Information Technology a candidate shall have completed study for the Degree extending over a period of not less than four (4) academic years and not more than six (6) academic years).
- The student will undertake two attachments during the period following the end of Year II and III. Each attachment session will be not less than 8 weeks, being equivalent to ONE unit, and shall be subject to the general university regulations for practical training and industrial attachment.
- The attachments at the end of Year II shall be internal attachment, while the attachments at the end of Year III shall be industrial attachment.
- The student shall be required to take a Project, in Year IV, being an equivalent of two units.

REGISTRATION

- A student shall be required to register for the required or additional units within the first four weeks of the semester.
- A student who does not register for a particular unit but who completes the course work and who sits for the examination in that unit will be deemed not to have sat for the examination in that unit.

EXAMINATIONS

ORDINARY EXAMINATIONS

- ❖ Examinations shall be set, moderated and approved in accordance with the University procedures.
- ❖ Examinations shall be conducted either at the University or at an approved Centre or and in both cases shall be supervised by the University.
- ❖ Continuous assessments shall contribute 30% and the ordinary examinations shall contribute 70% of the marks; except that where a unit consists solely of practical work, it shall be assessed out of 100% by continuous assessment.
- ❖ The University Examinations consisting of written papers shall be 2 hours per unit.
- ❖ Each unit shall be graded out of 100% and the pass mark shall be 40%.
- ❖ The marks shall be translated into letter grades as follows:-

70% and above A

60% and below 70% B

50% and below 60% C

40% and below 50% D

Below 40% E

❖ Attachments shall be assessed and graded on PASS or FAIL basis.

PROGRESSION

A candidate must pass all the course units in a particular year before proceeding to the next year.

AWARD OF DEGREE

Subject to the provision of ICS-IT-16.1 the final classification of the Diploma shall be based on the average mark for all the required thirty-two (32) units taken in Year I and II. Additional units shall not be considered for the classification of the diploma.

The Diploma shall be graded as follows:

Distinction 70% and above

Credit 60% and below 70%

Pass 40% and below 60%

Subject to the provision of ICS-IT-17.7 the final classification of the Degree shall be based on the average mark for all the required sixty two (62) units taken in Year I, II, III and IV. Additional units shall not be considered for the classification of the degree.

BScIT COURSE STRUCTURE

YEAR I

Semester I

Unit Code	Unit Name	Course Hours
SZL 2111	HIV/AIDS	45
HRD 2101	Communication Skills	45
SMA 2104	Mathematics for Science	45
BIT 2103	Introduction to Computer Applications	45
BIT 2104	Introduction to Programming and Algorithms	45
BIT 2102	Computer Systems and Organization	45
BIT 2108	Computer Networks	45
ICS 2200	Analogue Electronics	45
BIT 2120	Essentials of Accounting	45

Semester II

Unit Code	Unit Name	Course Hours
ICS 2202	Computer Operating Systems	45
BIT 2121	Computerized Accounting	45
BIT 2112	Systems Analysis and Design	45
BIT 2223	Installation and Customization	45
ICS 2206	Introduction to Database Management Systems	45
HRD 2102	Development Studies and Ethics	45
ICS 2205	Digital Logic	45
SMA 2100	Discrete Mathematics	45

YEAR II (Diploma Students Join Here)

Semester I

Unit Code	Unit Name	Course Hours
SMA 2101	Calculus I	45
ICS 2203	Web Application Development I	45
BIT 2116	Network Design and Management	45
HPS 2103	Essentials of Economics	45
BIT 2226	Mobile Computing	45
ICS 2302	Software Engineering I	45
ICS 2104	Object Oriented Programming I	45
BIT 2224	Innovation and Technology Transfer	45

Semester II

Unit Code	Unit Name	Course Hours
BIT 2214	Object-Oriented Analysis and Design	45
BIT 2204	Network Systems Administration	45
BIT 2118	Application Programming I	45
ICS 2105	Data Structures and Algorithms	45
ICS 2304	Database Management Systems	45
ICS 2201	Object Oriented Programming II	45
BIT 2225	Cloud Computing	45
STA 2100	Probability and Statistics I	45
BIT 2122	Industrial Attachment (Internal)	8 weeks

YEAR III

Semester I

Unit Code	Unit Name	Course Hours
BIT 2207	Web Application Development II	45
ICS 2404	Advanced Database Management Systems	45
ICS 2301	Design and Analysis of Algorithms	45
BIT 2321	Software Engineering II	45
BIT 2320	Mobile Application Development	45
BIT 2111	Computer Aided Design	45
BIT 2203	Advanced Programming	45
BIT 2322	Computer Animation	45

Semester II

Unit Code	Unit Name	Course Hours
BIT 2215	Software Project Management	45
ICS 2311	Computer Graphics	45
BIT 2301	Research Methodology	45
STA 2200	Probability and Statistics II	45
BIT 2319	Artificial Intelligence	45
BIT 2119	Management Information Systems	45
ICS 2305	Systems Programming	45
BIT 2323	Application Programming II	45
BIT 2316	Industrial Attachment (External)	(8 weeks)

YEAR IV

Semester I

Unit Code	Unit Name	Course Hours
BIT 2303	Project (Project Definition and Research)	45
BIT 2212	Business Process Modeling	45
ICS 2405	Knowledge Based Systems	45
BIT 2305	Human Computer Interaction	45
ICS 2403	Distributed Systems	45
BIT 2317	Computer Systems Security	45
BIT 2309	Principles of Management	45
BIT 2324	Geographical Information Systems	45

Semester II

Unit Code	Unit Name	Course Hours
BIT 2303	Project (Project Implementation)	45
BIT 2313	Professional Issues in Information Technology	45
ICS 2303	Multimedia Systems and Applications	45
BIT 2315	Electronic Commerce	45
BIT 2318	Information System Audit	45
HRD 2401	Entrepreneurship Skills	45
BIT 2208	Principles of Marketing	45
BIT 2210	Business Intelligence	45