

FACULTY OF COMPUTING AND ICT

AMOUD UNIVERSITY

FACULTY CATALOGUE

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3/3/2014

AMOUD UNIVERSITY

“A vehicle for Peace and Development”



REVISED AND UPDATED CATALOGUE

FOR

FACULTY OF COMPUTING AND ICT
“The virtual Hub for Peace and Development”

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1. AMOUD UNIVERSITY GENERAL INFORMATION

1.1 Background of the University

The History of Higher Education in Somaliland started with the establishment of Amoud University in 1998. Prior to this very important educational land mark youth in Somaliland used to make the long and expensive journey to Mogadishu in search of opportunities in higher education. Some succeeded in securing admission into institutions but many did not. The collapse of the Somali state in 1991 and the declaration of the independent Somaliland closed that option once and for all.

As a result of the new circumstances, thousands of young Somali Landers accompanied their relatives in the mass migration of Somalis to overseas locations, mostly to Western Europe and North America. However the vast majority could not make that journey and remained without much hope of getting higher education unless efforts were made in that direction

In 1994 and 1995, some Somaliland citizens working in the Gulf States discussed the plight of their fellow countrymen back home; that of youth in particular.

In 1996 four of them proposed the idea of establishing an institution of higher learning and a workshop was held in Borama on August 6, 1996 to address the same issue.

This seemed to be an idea whose time had come and the participants decided that an institution by the name of Amoud University should be started. Then the campus was established at the former prestigious Amoud Secondary school, itself having been the first secondary school in the British protectorate of Somaliland. Initial preparations were made in 1997 including modest rehabilitation of parts of the campus and the implementation of a remedial course in English for the first intake of 70 students.

On November 4th 1998 Amoud University was inaugurated by the former Vice-President of Somaliland as the first institution of higher learning in Somaliland. This was one of the most important landmarks in the educational history of this country and pioneered the establishment of similar institutions throughout the major cities in Somaliland.

Prof. Suleiman Ahmed Gulaid
President, Amoud University

1.2 Vision of the University

Amoud University aspires to be a centre of excellence in education and scholarship in the Horn of Africa and a pioneer in promoting understanding between culture and communities in the region.

1.3 Mission of the New University

The Mission of Amoud University is to significantly contribute to the development of the potentialities of its students through education and training and thus help them join in the global village.

1.4 Philosophy

Amoud University is dedicated to the belief that individualized, facilitative and socially useful higher education requires a combination of professional and theoretical training balanced with responsible participation in society. It is the philosophy of Amoud University that its graduates need to be broadly educated as well as be a master of their chosen discipline. It is equally essential that they clearly see how their discipline relates to the society and that she/he is able to communicate successfully with those not trained in his/her discipline.

1.5 Objectives set for the New University

Initially, the following were set as the objectives of the University

1. To restore hope and a sense of direction for the younger generation and thus reduce their tendency to get involved in anti-social activities including confrontations.
2. To set an example for other regions as a practical demonstration of the benefits of the culture of peace.
3. To pioneer a tradition of higher education in Somaliland and to train a new breed of professionals.
4. To attract Somali professionals living abroad back to their country and to create employment and research opportunities for the presently unemployed professionals in the country.
5. To influence and guide the system of education in the country.
6. To provide an alternate and opportunities for those who were being attracted to foreign countries under the pretext of seeking higher education.

2. FACULTY OF COMPUTING AND ICT

2.1 Dean's Message

Amoud University faculty of Computing and ICT has come a long way. The faculty is located at the main campus, five kilometers from Borama city center and was established in September, the year 2009. We have progressively improved and have never looked back since then.

While in 2009 we had only one computer laboratory, this current year 2014, the faculty boasts of ownership of three computer laboratories at the main campus, each having between 25-30 personal computers, and one at the city center with 18 computers. We also have a wireless network provided by a local Internet Service Provider Somtel International Limited, with 2Mbps downlink and 1Mbps uplink.

From an initial 35 students in 2009, we now have 120 students studying Bachelor of Science in Information Technology, which was the pioneer programme for this faculty and 55 students undertaking Bachelor of Business Information Technology, a joint collaborative program offered in conjunction with faculty of Business & Public Administration. We held our first graduation as a faculty in August 2012 for students who qualified for Bachelor of Science degree in Information Technology. These facts and figures indicate tremendous growth and development in the faculty.

The main library is well equipped, with books of sorts, and has an enormous reading space for serious academic research work. Our teaching staff comprises 20 highly qualified lecturers trained from all over the world including in countries like the Malaysia, Uganda, Bangladesh, India, Pakistan, Kenya and Somaliland itself, which portends a good diversity of approach and hence a rich pool of knowledge.

We welcome students from all over the world to enroll and learn with us in this extra ordinary institution and are also open to partnership with like minded institutions, governments and other organizations in areas of common interest such as research, project facilitation, training and capacity development, just to mention but a few. Thank you.

Okech Edwin

Dean, Faculty of Computing and ICT

2.2 Functions Performed by Faculty of Computing and ICT to Deliver on its Mission

The Faculty will perform the following functions to deliver on its mission:

1. **Students** – recruit an academically talented student body from diverse economic, racial and ethnic backgrounds and to attract and retain an active, culturally and academically diverse faculty of the highest caliber, skilled in the scholarship of teaching, discovery, application and integration.
2. **Curriculum** – provide a balance between academic and professional preparation, to the highest national and international professional standards
3. **Undergraduate** – provide a quality liberal education foundation, to broaden intellectual and aesthetic perspectives, explore ethical human values and prepare students for lifelong learning and responsible participation in a complex ever dynamic society.
4. **Post Graduate** – offer selective post-graduate programs leading to masters’ and doctorate degrees either alone or through partnership, collaboration and association with other higher educational institutions.
5. **Teaching** – promote excellence in teaching by offering faculty members opportunities for development in the areas of curriculum instruction, by providing high quality equipment and by maintaining reward systems based on the premise that teaching, research and creative activity are mutually supportive.
6. **Research and Creative Activity** – enhance the quality of life through research and creative activities.
7. **Outreach and Community Activities** – be a catalyst in finding solutions to social, economic and cultural challenges facing society, by dissemination and application of results from its basic and applied research.
8. **Campus Environment and Extra-Curricular Activities** – create a dynamic campus life which offers students the opportunity to participate in a wide range of co-curricular activities.
9. **Alumni** – promote close working ties with its graduates, for mutual benefit.
10. **Inter University Cooperation and Association** – Promote cross campus visits, projects, sports competitions and academic challenges.
11. **Awards and Competitions**

The faculty shall have an Annual Competition called “**The IT Open Contest**” whereby students from **all Academic Levels of Study** and from **all Departments** within the faculty of Computing and ICT shall be allowed to enter Projects for the Contest and the Top Performers presented with the “**The Dean’s Award**” for their efforts.

The candidates shall be permitted to register their Projects either as individuals or as a group of not more than three students. In case of a win for a group project, the group members shall share whatever amount available for the top prize in a predetermined ratio by the group members and the agreement to

this effect must be deposited with the dean's office at the time of registration of the project for competition. This event shall be organized during the second academic semester of each and every academic year and is mainly aimed at boosting student morale while pushing them to discover their full potential. There shall be awards only for the top three best performing Projects. The Dean's Award will come in terms of one of a trophy, Certificates of Exceptional Performance, Monetary Disbursements, Partial or Full Scholarships, Academic Materials or any combination of any number of these.

To enroll and qualify for the competition, students shall first be required to make Project Proposals to the select committee of assessors for the Contest, who will then recommend registration or otherwise, of these projects to the dean's office, to enter into the initial (long) list of finalists during the month of April, in the second semester of the academic year. Thereafter, upon registration of the projects, there shall be continuous evaluation of the listed projects until the end of May, in the second semester whereupon; the best ten projects will finally be entered into the draw for the short list for the Top Prize, to be finally awarded in the last week of June. Out of the ten best Projects, the three most outstanding Projects shall finally then be selected for the Top Prize.

The ideal project should be one which solves a real world problem in the society. Such a project should be implemented or implementable in an area of education, business, agriculture, health sector or government, either in the local community or in the context of the entire world.

2.3 Vision of the faculty

To become a leading institution of higher learning of good international repute providing home-grown, real-time and research-based solutions to the myriad problems encountered in Computing and Information Communication & Technology areas as well as act as a regional electronic hub for fostering peace and development.

2.4 Mission of the faculty

To respond positively to socio-economic needs by designing and implementing a universal education system guided by the principles and values of peace for all humanity and development in all spheres of human kind in addition to providing a conducive research environment for scholars to flourish at all levels of their career.

2.5 Objectives of the faculty

As a faculty, we are keen on churning highly qualified professionals whose knowledge base and grasp of subject content is unmatched. We aspire to bring out, not just capable graduates who can match any challenges in this fast dynamic digital age, but business savvy graduates who look forward to creating job opportunities for themselves and others by applying the global multifaceted world of computing and informatics concepts imparted in them.

2.6 List of Programs at the Faculty

This faculty currently offers two programmes, namely, Bachelor of Science in Information Technology, which is offered in the Information & Communication Technology department and Bachelor of Business Information Technology, a joint collaborative programme offered in partnership with faculty of Business and Public Administration.

2.6.1 Bachelor of Science in Information Technology (BSC I. T.):-

This course is currently being offered. The next intake will be at the start of the new academic year which commences on September 15, 2014. Our pioneer students graduated in August 2012. The population of students in this programme today stands at a total of 120. Sophomore year students are 24 in number, Junior year students are 40 in number while their Senior year counterparts are 56 in number.

2.6.2 Bachelor of Business Information Technology (BBIT):-

This programme was launched in September 15, 2012. We have a total population of 55 students in this programme. The pioneer students for this programme are currently in their Sophomore year. The department's office is located at the faculty of Computing and ICT. However, there are mandatory, regular joint consultations between this faculty and the faculty of Business and Public Administration, Amoud University, regarding the implementation of the curriculum, teaching and routine running.

Other programmes are yet to be introduced in the due course of time. Two programmes are currently being anticipated for introduction in September 2014 namely:-

2.6.3 Diploma in Information Technology programme.

This programme shall be offered part time, in the evening sessions only, at the town campus Computer laboratory, Amoud University. The programme is going to be offered in the department of Information & Communication Technology. It is listed in the strategic plan of the faculty as a major priority item and is scheduled for implementation in March 2014.

The target market is open to the following categories of people:-

- a. Those that have just cleared secondary school and want to pursue a quick course for a short period of time in the evenings.
- b. Those who are currently working in any other profession and wish to add some Information Technology strength to their curriculum vitae.

2.6.4 Bachelor of Journalism and Mass Communication

There will be a collaborative arrangement between the faculty of Economics and Political Science, the faculty of Education and the faculty of Computing and ICT in the curriculum development and running of this programme. This programme is listed in the strategic plan of the faculty as a top priority item and is scheduled for implementation in September 2014.

2. BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY DEGREE PROGRAMME

2.1 Acknowledgement

The Bachelor of Science in Information Technology Curriculum at Amoud University was successfully reviewed in the September 2012 – January 2013 semester for the 2013 – 2017 strategic periods. The dean of the faculty wishes to acknowledge and thank each and every member of staff at the faculty who contributed in one way or another to the success of the curriculum review exercise.

The following persons (listed in no particular order) were very instrumental in the success of the reviewed curriculum document by offering their leadership, time, ideas, intellectual expertise and other resources.

Edwin Omondi Okech (Chair)

Kalid Abdirahman Hussein

Victor Omondi Odambatafwa

Abdisamad Egeh Habaneh

Saeed Abdi Hassan

Farah Abdi Farah Kahiye

Mohyadin Farah Abdillahi

Mohamed Jamaac Madar

Mahamud Muse Abdi

This document would not have been successfully reviewed without the team spirit of the aforementioned persons and their individual dedication to the subject matter. Amoud University shall forever be indebted to you for establishing a good foundation for this programme.

When reviewing the curriculum, the main point of reference was the ACM (Association of Computer Machinery) and IEEE (Institute of Electrical and Electronic Engineers) recommended International Information Technology Curriculum(2008 Edition). We acknowledge the importance of this document as a basis for our own curriculum and would wish to thank the authors of the document for their well researched guidance.

However, while formulating our tailor made curriculum, the team also took note of the market needs of Somalia and the horn of Africa as initial entry points for the envisaged graduates, in addition to Amoud University general requirements and other supplementary courses that all jointly target to produce an all round graduate for the job market.

The academic discipline of Information Technology can be modelled. The pillars of IT include programming, networking, human-computer interaction, databases, and web systems, built on a foundation of knowledge of the fundamentals of IT. Overarching the entire foundation and pillars are information assurance and security, and professionalism.

2.2 Background

The B.Sc. in Information Technology curriculum has been re-designed and improved to produce computing graduates with strong technical knowledge who wish to enter Information Technology (IT) sector equipped to function as software developers, database programmers, network designers and administrators, and IT support persons with strong foundation for continued career growth. The BSc IT curriculum has strong emphasis on the Internship, Group Project, Individual Project and Amoud University Comprehensive Examinations, thus bringing together the conceptual knowledge, problem solving and independent critical thinking skills needed by information technology professionals.

2.3 Course Rationale¹

In designing and improving the BSc in IT curriculum, the curriculum review team took into consideration the following emergent issues:

2.3.1 The growth of IT sector and the emergence of knowledge economy

The growth of IT Sector in Somaliland and the emergence of the global knowledge economy in the Horn of Africa region will require highly-skilled multidisciplinary IT professionals conversant with new methods, tools and knowledge base of innovation systems. The horn of Africa is positioning itself strategically to produce more relevant information technology experts compared to other areas of Africa. For example the fiber optic cable is just being laid down now to exponentially increase the speeds and data bandwidth that currently exist.

2.3.2 New Amoud University Focus on Quality Entrepreneurship and Professional skills

In designing this BSc IT curriculum the Faculty of Computing and ICT is responding to this new strategic direction in order to provide highly skilled and relevant entrepreneurial professionals in Information Technology sector in Somalia and the Eastern African regional market at large.

2.3.3 Reference to International Professional standards

In developing the BSc IT curriculum reference was made to the IEEE /ACM curriculum standards in computing-2002-2008;

¹ This curriculum is modeled on the ACM/IEEE

2.4 Course Aims

Overall the BSc IT aims to:

1. Develop students' understanding of IT business related problems and emerging potential methods for solving them;
2. Introduce to students a wide range of updated IT tools and techniques to be able to possess strong analytical and critical thinking skills;
3. Develop students' practical competence in areas of design, implementation and evaluation that is relevant to the specific computing project specialization;

Develop and exhibit strong ethical principles, good interpersonal communication and team skills necessary for IT industry.

2.5 Introduction

The Degree of Bachelor of Science in Information Technology (B. Sc/ I.T.) is offered by the department of ICT. It provides a theoretical and practical foundation in Information Technology. Students pursuing degree courses at the Faculty normally have a variety of specialization areas, in this field. They usually take minor, general requirement courses, core and professional Information Technology courses that help them effectively perform in their careers. It is planned therefore that in future as the department and the faculty at large expand, more specialization areas shall be introduced.

At this point in time, the students shall be offered only major (core) courses and professional courses, geared towards building their careers in such areas as Programming & Systems Development, Web Design and Publishing, Networking & Data Communications, Database Management & Network Administration. In addition, the Department also offers basic Information Technology courses to other Faculties of the University.

2.6 Philosophy

This department serves to act as an engine for driving positive change and development through the electronic world of computing and networking. It is a fact that no entity whether educational or otherwise, can survive the competition in this silicon age without a well established IT department. The department therefore intends to fill the gap created by this challenge through its graduates and research personnel, by starting from formulation of home-based solutions here in Somaliland and progressively extending these solutions the global society, both in the public and private sector.

2.7 Students

The Department plans to produce two-pronged professionals who are both academically versatile and also equipped with interpersonal relationship and basic leadership skills, including entrepreneurial skills to help provide immediate computing solutions and do research on possible future solutions to the myriad areas of problems in firms across the board through responsible and well balanced application of their knowledge.

2.8 Goals

The goals of the ICT Department include:

- To prepare future computer experts in web authoring, networking, software and hardware engineering.
- To inspire its graduates to exploit their full academic potential, by always pursuing their further studies to the highest possible degree.
- To help develop all-round graduands with leadership acumen.
- To help inspire a sense of research initiatives, good readership and self-discipline amongst the students.

2.9 Career Possibilities

Information technology and data processing; computer systems design and analysis; software engineering; telecommunications; applications; database design, analysis and administration; artificial intelligence, expert systems and knowledge engineering; simulation; technical sales and support; operations research.

2.10 Language of Instruction

All courses are offered in English language. In the coming sections, these courses are explained in detail.

3. Characteristics of an IT Graduate

According to the ACM and IEEE IT curriculum 2008 edition here below is what an IT graduate needs:-

The fact that Information Technology programs emerged to meet demand from employers has had a significant effect on the evolution of the discipline. Entry-level knowledge and skill requirements gathered from potential employers of graduates naturally translate into learning or program outcomes for graduates from Information Technology programs.

In particular, if a graduate is going to be able to function as a user advocate and select, create, apply, integrate and administer computing technologies to meet the needs of users within a societal and organizational context, they need:

- (a) An ability to apply knowledge of computing and mathematics appropriate to the discipline
- (b) An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution
- (c) An ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs
- (d) An ability to function effectively on teams to accomplish a common goal
- (e) An understanding of professional, ethical, legal, security and social issues and responsibilities
- (f) An ability to communicate effectively with a range of audiences
- (g) An ability to analyze the local and global impact of computing on individuals, organizations, and society
- (h) Recognition of the need for and an ability to engage in continuing professional development
- (i) An ability to use current techniques, skills, and tools necessary for computing practice.
- (j) An ability to use and apply current technical concepts and practices in the core information technologies.
- (k) An ability to identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems.
- (l) An ability to effectively integrate IT-based solutions into the user environment.
- (m) An understanding of best practices and standards and their application.
- (n) An ability to assist in the creation of an effective project plan.

In line with best practices in curriculum design (Sork and Cafarella, 1989; Diamond, 1998), this model curriculum is designed as a blueprint for programs to enable their graduates to achieve these capabilities.

The academic discipline of Information Technology can well be characterized as the most integrative of the computing disciplines. One implication of this characteristic is that a graduate of an IT program should be the first one to take responsibility to resolve a computing need, no matter the source or description of the problem, and no matter the solution that is eventually adopted.

The depth of IT depends on its breadth, that is to say an IT graduate needs to be broad enough to recognize any computing need and know something about possible solutions. The IT graduate would be the one to select, create or assist to create, apply, integrate, and administer the solution within the application context.

4. PREREQUISITE STRUCTURE

The prerequisite structure illustrated in Figure 1, below for the BSC Information Technology curriculum is adapted and customized from the IEEE/ACM IT 2002 Model curriculum and guidelines for undergraduate degree programs in Information Systems:

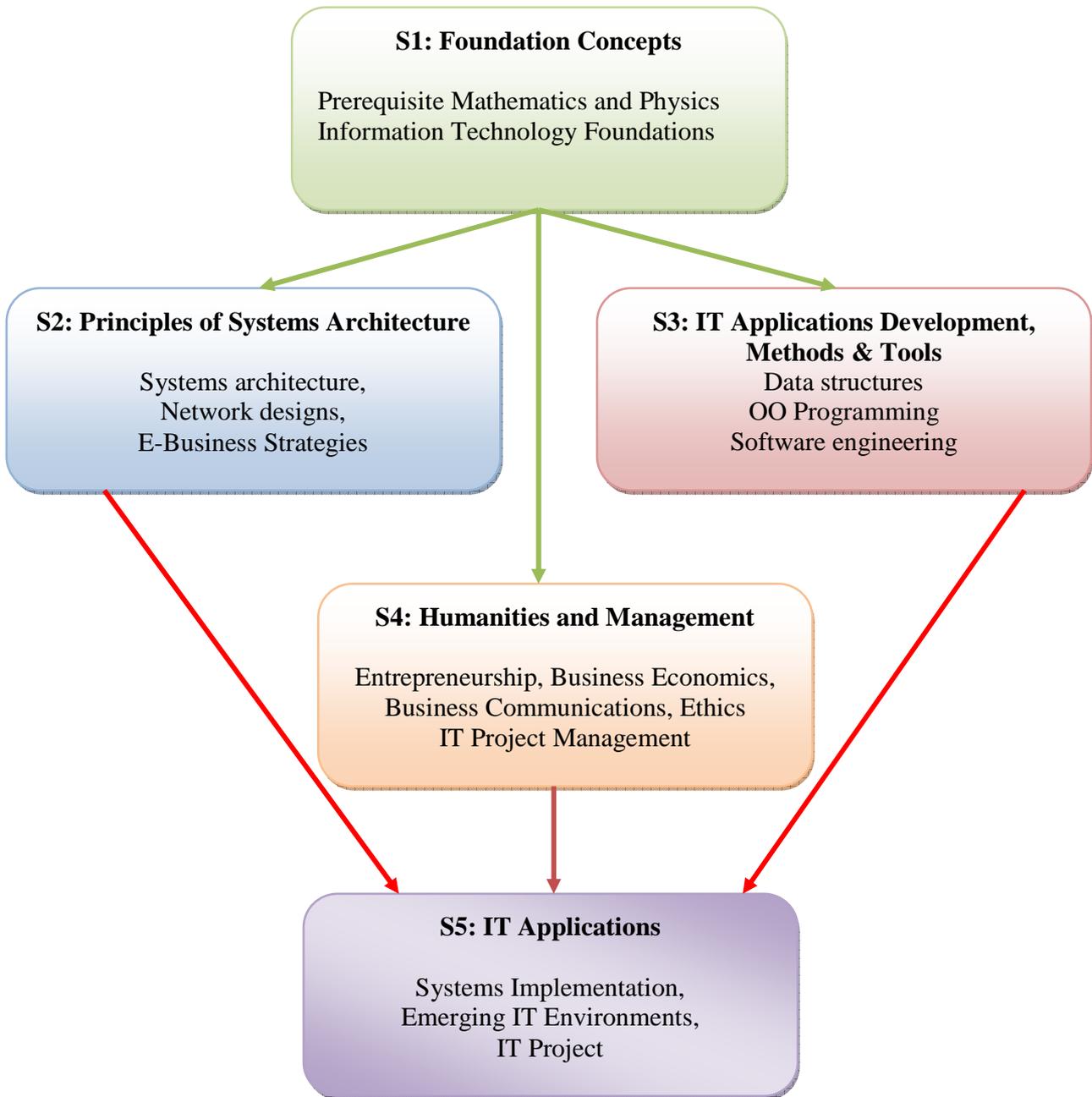


Figure 1: General Prerequisite Structure for an Information Technology Course

5. TEACHING, LEARNING AND ASSESSMENT

Teaching comprises of a 20 week two-hour lectures and four-hour lab or practical sessions covering specific areas of subject matter. In terms of learning, a variety of strategies are used including case analysis, problem solving, structured lectures and lab sessions. Assessment is made through presentations, coursework, examination and continuous tests. All candidates are encouraged to join a study group for a period of at least three months before examinations. Dissertations are a major research and development project applying newly acquired skills using tools, methods and techniques learned during the course, resulting in independent production of a 5,000 word project report. Projects are industry based to maintain relevance to industry and business. The IT industry placement provides valuable professional experience that augments and extends the skills developed on the course. You will be prepared for the placement during your final holiday break between first semester in Senior year and second semester Senior year, with the placement usually starting straight after first semester and lasting for a minimum of 6 weeks.

6. EVALUATION OF TEACHING

Students shall evaluate each course offered in each semester, preferably before the final semester examination (See questionnaire in Appendix 6).

7. CAREER OPPORTUNITIES

There is a significant demand for computing graduate professionals with training and understanding in Information Technology in academia, business and industry. Successful candidates of this BSc IT course may enter positions in a variety of areas such as Network designers and administrators, Database Programmers, Software Developers and IT Support Analysts.

8. GENERAL ADMISSION REQUIREMENTS FOR BSC IT

Candidates for the Degree of Bachelor of Science in Information Technology must satisfy the minimum Faculty and Departmental requirements for University entry as provided for in article 3.1 below. However, applicants should note that this is a **MINIMUM** requirement hence it does not guarantee an automatic admission to the degree of Bachelor of Science in Information Technology.

8.1 Minimum Entry Requirements

To be eligible for admission into the BSc in Information Technology programme, a candidate must satisfy any one of the following:-

8.1.1 Must have a cumulative GPA of 2.5 from Amoud University Freshman year and a minimum grade of C in Mathematics and English or equivalent from a university recognized by the University Senate.

8.1.2 Credit pass in a Diploma in IT programme or equivalent qualification, from Amoud University or a university recognized by the University Senate.

8.1.3 Any other equivalent qualifications approved by Senate as equivalent to 8.1.1 or 8.1.2 above.

8.2 Specific Admission requirements

One course in Algebra and Geometry

One course in Calculus

One course in Chemistry

One course in Physics

One course in English

8.3 General Amoud University Required Courses

The following are the General Requirement courses that every student studying in Amoud University should complete successfully, regardless of his/her specialization area. In addition, some departments have their own general required courses, and these are stated separately.

	Course Number	Course Title	Course Credits
1.	ARA 121	Freshman Arabic	3
2.	ISL 111	Islamic Studies	3
3.	ENG 111	Language Structure I	3
4.	ENG 121	Language Structure II	3
5.	ENG 112	Reading & Vocabulary I	3
6.	ENG 122	Reading & Vocabulary II	3
7.	ENG 113	Writing Skills I	3
8.	ENG 123	Writing Skills II	3
9.	MAT 111	Precalculus	3
10.	MAT 121	Calculus I	3
11.	GEO 111	World Geography	3
12.	SOC 111	Sociology	3
13.	BIO 121	General Biology	3
14.	PSY 121	Psychology	3
	Total		42

Total number of courses = 14

Total number of credit hours = 42

8.4 Compulsory Major (Core) courses

Course Number	Course Title	Course Credits
1. BIT 222	Operating Systems	3
2. BIT 212	Computer Architecture & Organization	3
3. BIT 225	Programming Methodology	3
4. BIT 324	Systems Analysis and Design	3
5. BIT 221	Database Management Systems	3
6. BIT 327	Digital Logic	3
7. BIT 312	Object-Oriented Programming	3
8. BIT 223	Data Communications	3
9. BIT 215	Network Essentials	3
10. BIT 213	Web Design and Publishing	3
11. BIT 311	Relational Databases & SQL	3
12. BIT 322	Java Programming	3
13. BIT 313	Application Programming I	3
14. BIT 314	Data Structures and Algorithms	3
15. BIT 412	Software Engineering	3
16. BIT 323	Application Programming II	3
17. BIT 226	Internet Applications – CMS, CSS	3
18. BIT 425	Artificial Intelligence	3
19. BIT 422	Linux Operating System	3
20. BIT 413	Routing and Switching	3
21. BIT 423	Network Security	3
22. BIT 326	Local Area Networks	3
23. BIT 211	IT Fundamentals	3
24. BIT 315	Computer Networks	3
25. BIT 415	Web programming – PHP/MySQL	3
26. BIT 424	Fiber-optic Communications	3

Total **78**

Total number of courses =26

Total number of credit hours = 78

8.5 Professional Requirement Courses

Course Code	Course Title	Course Credits
1. BIT 418	Industrial Attachment	4
2. BIT 427	Social and Professional Issues in IT	3
3. BIT 411	BSc IT Group Project	3
4. BIT 421	BSc IT Individual Project	3
5. BIT 316	IT Project Management	3
Total		16

Total number of courses =5

Total number of credit hours = 16

8.6 Bachelor of Science in Information Technology Program Course Distribution

YEAR	SEMESTER	COURSE CODE	COURSE TITLE	L	P	CH	C.U.
Freshman	I	ENG 111	Language Structure I	39	0	39	3
		ENG 112	Reading & Vocabulary I	39	0	39	3
		ENG 113	Writing Skills I	39	0	39	3
		ISL 111	Islamic Studies	39	0	39	3
		SOL 111	Sociology	39	0	39	3
		GEO 111	World Geography	39	0	39	3
		MAT 111	Pre-Calculus	39	0	39	3
				TOTAL C.U.			21
	II	ENG 121	Language Structure II	39	0	39	3
		ENG 122	Reading & Vocabulary II	39	0	39	3
		ENG 123	Writing Skills II	39	0	39	3
		ARA 121	Freshman Arabic	39	0	39	3
		PSY 121	Psychology	39	0	39	3
		BIO 121	General Biology	39	0	39	3
MAT 121		Calculus I	39	0	39	3	
			TOTAL C.U.			21	
Sophomore	I	BIT 211	IT Fundamentals	39	0	39	3
		BIT 212	Computer Architecture & Organization	39	0	39	3
		BIT 213	Web Design & Publishing	26	26	52	3
		BIT 214	Computer Applications and Maintenance	26	26	52	3
		BIT 215	Network Essentials	26	26	52	3
		BIT 216	General Physics	39	0	39	3
		BIT 217	Linear Algebra	39	0	39	3
				TOTAL C.U.			21
	II	BIT 221	Principles of Database Management Systems	26	26	52	3
		BIT 222	Operating Systems	26	26	52	3
		BIT 223	Data Communications	39	0	39	3
		BIT 224	Communication Skills	39	0	39	3
		BIT 225	Programming Methodology	26	26	52	3
		BIT 226	Internet Applications	26	26	52	3
BIT 227		Probability & Statistics	39	0	39	3	
			TOTAL C.U.			21	

Junior	I	BIT 311	Database Design & Development	26	26	52	3
		BIT 312	Object-Oriented Programming in C++	26	26	52	3
		BIT 313	Application Programming I	26	26	52	3
		BIT 314	Data Structures & Algorithms	26	26	52	3
		BIT 315	Computer Networks	26	26	52	3
		BIT 316	IT Project Management	26	26	52	3
		BIT 317	Discrete Mathematics	39	0	39	3
				TOTAL C.U.			21
	II	BIT 321	Distributed Databases	26	26	52	3
		BIT 322	Java Programming	26	26	52	3
		BIT 323	Application Programming II	26	26	52	3
		BIT 324	Systems Analysis and Design	39	0	39	3
		BIT 325	Wireless and Mobile Communication	26	26	52	3
		BIT 326	Local Area Networks	26	26	52	3
		BIT 327	Digital Logic	26	26	52	3
				TOTAL C.U.			21
Senior	I	BIT 411	Group Project	26	26	52	3
		BIT 412	Software Engineering	39	0	39	3
		BIT 414	Routing & Switching	26	26	52	3
		BIT 413	Broadband Networks	26	26	52	3
		BIT 415	Web Programming	26	26	52	3
		BIT 416	Human Computer Interaction	39	0	39	3
		BIT 417	Entrepreneurship Skills	39	0	39	3
		BIT 418	Industrial Attachment				4
				TOTAL C.U.			22
	II	BIT 421	B.Sc. I.T. Individual Project	0	104	104	4
		BIT 422	Linux Operating System	26	26	52	3
		BIT 423	Network Security	39	0	39	3
		BIT 424	Fiber-optic Communications	26	26	52	3
		BIT 425	Artificial Intelligence	39	0	39	3
		BIT 426	Electronic Commerce	26	26	52	3
		BIT 427	Social & Professional Issues in IT	39	0	39	3
		BIT 428	AU Comprehensive Examinations				
				TOTAL C.U.			22

9. BACHELOR OF BUSINESS INFORMATION TECHNOLOGY (BBIT) PROGRAMME

9.1 Introduction

The Degree of Bachelor of Business Information Technology (BBIT) is offered by the department of ICT in collaboration with the faculty of Business and Public Administration. It provides a theoretical and practical foundation in Business Studies and Information Technology.

Students pursuing degree at the Faculty normally have a variety of courses, in this field. They usually take minor, general requirement courses and professional Business Studies and Information Technology courses that help them effectively perform in their careers.

The students shall be offered major (core) courses and professional courses, geared towards building their careers in such areas as Business Law, Economics, Accounting, Management, Programming & Systems Development, Web Design and Publishing, Networking & Data Communications, Database management & Network Administration.

9.2 Philosophy

This programme serves to act as a bridge linking the business world and the information technology field. This programme is designed to cater for the large number of business professionals who would wish to have a good understanding of information technology to complement their understanding of the electronic business world. This department therefore intends to fill the gap created by the challenge of need for knowledge of both business field and IT field, through its graduates and research personnel, by starting from formulation of home-based solutions here in Somaliland and progressively extending these solutions the global society, both in the public and private sector.

9.3 Students

The Department plans to produce all-round professionals who are both academically sound and also equipped with interpersonal relationship and basic leadership skills, to help provide immediate business computing solutions and do research on possible future solutions to the myriad areas of problems in business firms across the board through responsible and well balanced application of their knowledge.

9.4 Goals

The goals of the BIT Department include:

- To prepare future information technology and business experts.
- To inspire its graduates to exploit their full academic potential, by always pursuing their further studies to the highest possible degree.
- To help develop all-round graduands with leadership acumen.
- To help inspire a sense of research initiatives, good readership and self-discipline amongst the students.

9.5 Career Possibilities

Information technology and data processing; business information systems analysis and design; business process re-engineering; application building; database design, expert systems and knowledge engineering; simulation; technical sales and support; operations research.

9.6 Language of Instruction

All courses are offered in English language. In the coming sections, these courses are explained in detail.

9.7 Specific admission requirements

One course in Algebra and Geometry

One course in Calculus

One course in Chemistry

One course in Physics

One course in English

9.8 General Required Courses

The following are the General Requirements courses that every student in the Faculty should complete successfully, regardless of his/her specialization. In addition, some departments have their own general required courses, and these are stated separately.

	Course Number	Course Title	Course Credits
(1)	ARA 100	Freshman Arabic	3
(2)	ISL 100	Islamic Studies	3
(3)	ENG 100	Freshman English I	3
(4)	ENG 110	Freshman English II	3
(5)	ENG 200	Reading Skills	3
(6)	ENG 210	Writing Skills	3
(7)	MATH 100	Precalculus	3
(8)	MATH 110	Calculus I	3
(9)	HIST 100	General History	3
(10)	SOC 100	Sociology	3
(11)	SOM 100	Somali Literature	3
	Total		33

Total number of courses =11

Total number of credit hours = 33

9.9 Bachelor of Business Information Technology Course Description

YEAR	SEMESTER	COURSE CODE	COURSE TITLE	L	P	CH	C.U.
Freshman	I	ENG 111	Language Structure I	39	0	39	3
		ENG 112	Reading & Vocabulary I	39	0	39	3
		ENG 113	Writing Skills I	39	0	39	3
		ISL 111	Islamic Studies	39	0	39	3
		SOL 111	Sociology	39	0	39	3
		GEO 111	World Geography	39	0	39	3
		MAT 111	Pre-Calculus	39	0	39	3
		TOTAL C.U.					
	II	ENG 121	Language Structure II	39	0	39	3
		ENG 122	Reading & Vocabulary II	39	0	39	3
		ENG 123	Writing Skills II	39	0	39	3
		ARA 121	Freshman Arabic	39	0	39	3
		PSY 121	Psychology	39	0	39	3
		BIO 121	General Biology	39	0	39	3
		MAT 121	Calculus I	39	0	39	3
		TOTAL C.U.					
Sophomore	I	ADM 2101	Introduction to Management	39	0	39	3
		ADM 2102	Introduction to Business Statistics	39	0	39	3
		ADM 2103	Financial Accounting I	39	0	39	3
		BIT 222	Computer Operating Systems	26	26	52	3
		ADM 2104	Introduction to Business	39	0	52	3
		BIT 211	IT Fundamentals	26	26	52	3
		BIT 221	Principles of Database Management Systems	26	26	52	3
		TOTAL C.U.					
	II	ADM 2201	Introduction to Economics	39	0	52	3
		BIT 213	Web Design and Publishing	26	26	52	3
		ADM 2202	Financial Accounting II	39	0	39	3
		BIT 225	Introduction to Computer Programming	26	26	52	3
		ADM 2203	Business Law	39	0	52	3
		BIT 313	Programming in Visual Basic	26	26	52	3
		ADM 2204	Principles of Marketing	39	0	39	3
		TOTAL C.U.					

Junior	I	BIT 312	Object Oriented Programming	26	26	52	3
		ADM 3101	Research Methods and Technical Writing	39	0	52	3
		BIT 3104	Data Structures & Algorithms	26	26	52	3
		BIT 324	Systems Analysis & Design	26	26	52	3
		ADM 3102	Business Finance	39	0	52	3
		BIT 416	Human Computer Interactions	26	26	52	3
		ADM 3103	Business Ethics	39	0	39	3
				TOTAL C.U.			21
	II	BIT 426	Electronic Commerce	26	26	52	3
		BIT 415	Internet Based Programming	26	26	52	3
		ADM 3201	Entrepreneurship Skills	39	0	52	3
		BIT 439	System Support	26	26	52	3
		ADM 3202	Managerial Accounting	39	0	52	3
		BIT 229	Computer Networks & Data Communication	26	26	52	3
		ADM 3203	Accounting Information Systems	39	0	52	3
				TOTAL C.U.			21
Senior	I	ADM 4101	Organizational Behaviour	39	0	52	3
		ADM 4102	Information Resource Management	39	0	39	3
		BIT 442	Multimedia Systems	26	26	52	3
		BIT 322	Object Oriented Programming II	26	26	52	3
		ADM 4103	Operations Management	39	0	52	3
		BIT 443	Network Systems Administration	26	26	52	3
		BIT 321	Database Systems II	26	26	52	3
		BIT 418	Industrial attachment				4
				TOTAL C.U.			22
	II	ADM 4201	Management Mathematics	39	0	39	4
		ADM 4202	Strategic Management	39	0	39	3
		BIT 436	Information Systems Strategy	26	26	52	3
		BIT 412	Software Engineering	26	26	52	3
		ADM 4203	Business Plan Development	39	0	39	3
		BIT 4104	Management Information Systems	26	26	52	3
		ADM 4204	IT-Business Research Individual Project	0	104	104	3
		BIT 428	AU Comprehensive Examinations				
				TOTAL C.U.			22

APPENDIX 1: Quality Assurance

Two activities will be carried out as quality assurance mechanisms to:

- a. Ensure that the quality of the programme is effectively managed and enhanced,
- b. Ensure that the general academic delivery standard has been maintained and continuously improved as a result of feedback from students and other stakeholders.

The following activities will be carried out to ensure quality of the programme:

1.1 Feedback from Students

At the end of each semester, students are required to evaluate each taught course-unit. Students will be given a questionnaire (Appendix 6) to respond to issues relating to the usefulness of the course unit and how effective it has helped them as learners.

1.2 Meeting with class representatives

Currently, each class has a student representative who maintains constant contact with respective heads of departments on matters related to learning. The faculty management will hold two meetings every semester with students to give an opportunity to students to raise issues that are related to their learning. Quality related issues are also addressed at this meeting.

1.3 Use of ICT in delivering curriculum

The faculty has the Programming Lab Central Database tool that is going to be used to deposit learning materials. Staff will use a range of ICTs in delivering their curriculum. Lecture rooms and labs are all equipped with overhead projectors and members of staff are required to use PowerPoint presentations in delivering lectures as much as possible. In future this will create a complete e-learning blended teaching.

1.4 Peer Review

As part of our professional development strategy, academic staff will perform peer review on their peers and advise on issues of personal and professional development in terms of teaching and student learning support.

1.5 External Examiners

It is University policy for every exam and dissertations to be reviewed by external examiners. External examiners write their reports on how they perceive research, curriculum and examinations. These reports are acted upon promptly to improve our academic practices in ensuring quality.

1.6 Tracer Studies

The faculty is now putting together a database of tracing alumni with their employers. The output of the tracer studies databases will help to ascertain whether the quality of the award is still good in order to ensure that our curriculum is still relevant to all stakeholders including industry and business.

APPENDIX 2**Facilities**

Item	Number	Capacity	Usage	
			Specific to Department	Shared
Conference Halls	1	2000	ALL	ALL
Lecture Rooms/ Lecture Theatres	1	40	ALL	ALL
Lecturer's offices	1	5	ALL	ALL
Computer Laboratories				
• Programming Lab (Main Campus)	1	40	ALL	ALL
• Technical Lab (Main Campus)	1	40	ALL	ALL
• Common Lab (Main Campus)	1	40	ALL	ALL
• Networking Lab (Town Campus)	1	30	ALL	ALL
Workshop				
• Inside Technical Lab	1	20	ICT Support	ALL
• Inside Server Room	1	10	ICT Support	ALL
Internet Access Points				
• Computer Laboratories	3	90	ALL	ALL
• Staff Room	1	6	ALL	ALL
• Dean's Front Office	1	3	ALL	ALL
Server Room	1	1	ALL	ALL
Students' Internet Access Area (Common Room)	1	10	ALL	ALL

APPENDIX 3**Equipment and Teaching Materials**

Item	Type	Number	Capacity	Usage	
				Specific Department	to Shared
Desk Top Computers (PCs)	Dell, HP, Compaq, Clones	60	P IV (40/80 GB)	Students, Staff	
Desk Top Computers (PCs)	HP-Compaq All In One State of The art	26	Core i 3(40/80 GB)	Students; Common Lab	
Projectors • Digital	Epson	3	2000 lumens	ALL	
Computer Software	Windows 7, Red hat Linux, Microsoft Office	15	N/A	ALL	
Laboratory Equipment	Computers, Digital/Analogue Components	Assorted	-	Faculties	
Special Equipment	Cisco routers, hubs and Switches, network cables	Assorted	-	Computing	
Others • Heavy Duty Printer	HP LaserJet P2050 Series PCL6	1	100ppm	ALL	
• Heavy duty Scanner	HP Scan jet	1		ALL	
• Laser Jet/Dot Matrix Printers	Panasonic	1	35ppm	ALL	

TEACHER EVALUATION FORM

(Office of Academic Affairs and office of Quality Assurance)

To be filled by the students

Course Title/Code _____

Name of Instructor _____

Semester/Year

Faculty/School./Department _____

Use the scale to answer the following questions below and make comments 1-Strongly Disagree, 2-Disagree, 3-Somewhat Agree, 4-Agree, 5-Strongly Agree						
1. Subject Matter						
A	The instructor is well prepared for each class.	1	2	3	4	5
B	The instructor demonstrates knowledge of the Subject and communicates the subject matter effectively	1	2	3	4	5
C	The subject matter presented in the course has increased your knowledge of the subject.	1	2	3	4	5
2. Coverage of Course Content						
A	The instructor has completed the whole course and provides additional material apart from the textbook	1	2	3	4	5
B	The syllabus clearly states course objectives, requirements, procedures and grading criteria.	1	2	3	4	5
C	The course integrates theoretical course concepts with real-world applications	1	2	3	4	5
D	The course material is modern and updated.	1	2	3	4	5
3. Assessment/Evaluation Techniques						
A	The assignments and exams covered the materials presented in the course.	1	2	3	4	5
B	Lecturer provides case studies and asks oral questions to assess our understanding of the course.	1	2	3	4	5
4. Pedagogy/Language of Instruction						
A	The instructor uses English as language of instruction and has very good command of the English language.	1	2	3	4	5
B	The instructor maintains an environment that is conducive to learning and teaching.	1	2	3	4	5
C	The instructor relies on lecturing only and does not engage students in learning and teaching.	1	2	3	4	5
D	The instructor encourages student participation					

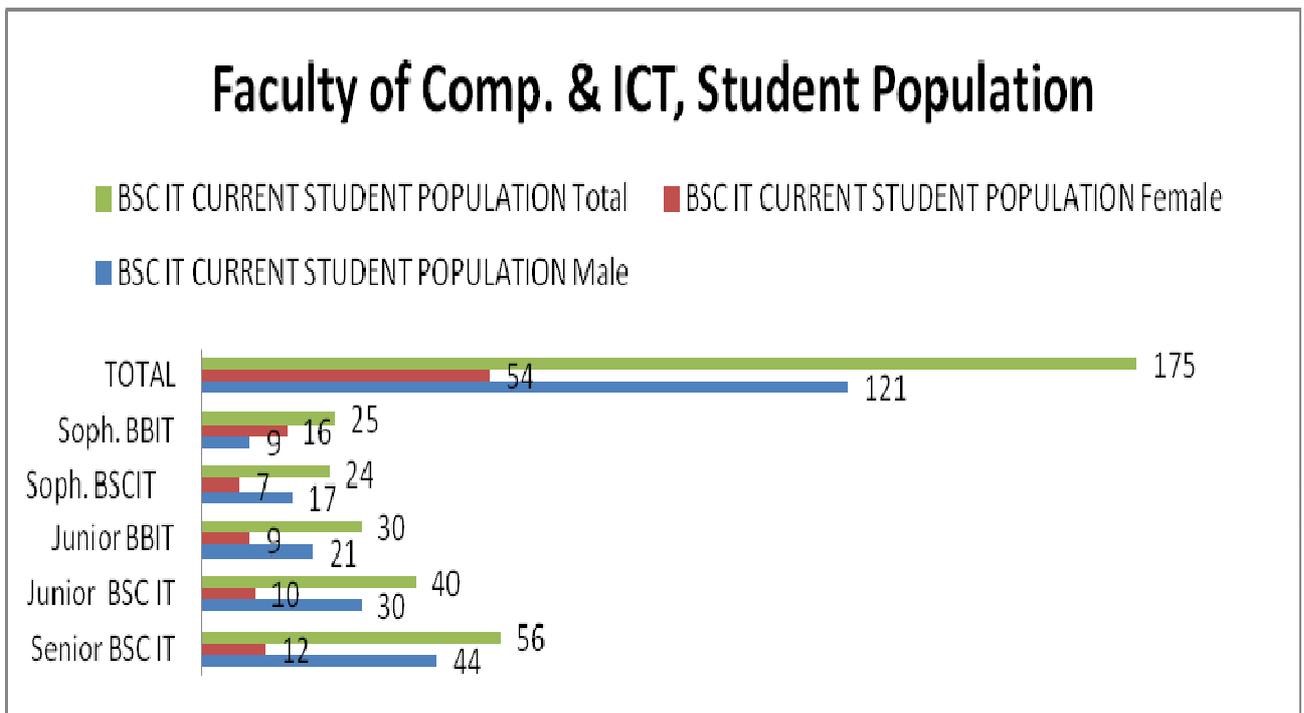
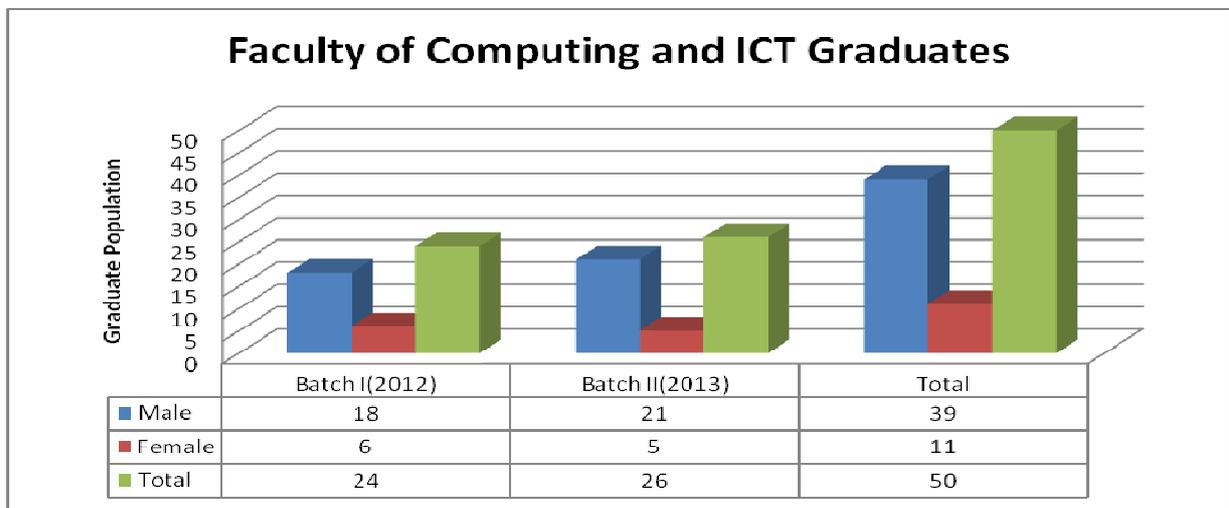
Please add any extra comments here below:-

Course Name _____

Instructor Name _____

APPENDIX 5 CURRENT STUDENT AND ALUMNI STATISTICS

	Department/ Category	Male	Female	Total
1	Batch I(2012)	18	6	24
2	Batch II(2013)	21	5	26
Total Graduates		39	11	50
3	Senior BSC IT	44	12	56
4	Junior BSC IT	30	10	40
5	Junior BBIT	21	9	30
6	Soph. BSCIT	17	7	24
7	Soph. BBIT	9	16	25
Current Population		121	54	175



1. COURSE SCHEDULE

1.1 The BSc in Information Technology and Bachelor of Business Information Technology programmes comprise six (6) academic semesters offered in three (3) calendar years. Each semester is equivalent to twenty (20) weeks of study and each calendar year shall consist of one academic year or two (2) academic semesters. The programme is organized into three (3) stages (academic years) namely Sophomore Year, Junior Year and Senior Year, each having two (2) semesters.

1.2 For each semester, a student shall normally take seven (7) courses of study as defined in 5.3. There shall be an industrial attachment or student Internship period of not less than six (6) weeks during the February/March holiday break between Semester I and Semester II of Senior Year.

1.3 The programme shall be offered in terms of course units; one course unit being defined as 3 credit units. Several IT related courses will be defined as 2 credit units, 3 credit units and others 4 credit units depending on the nature of practical content involved. Based on UNESCO recommendations, 15 contact hours comprise 1 credit unit and that each theory credit unit is equivalent to 2 practical credit units, the BSc IT and BBIT will have 12 hours comprising 1 credit unit and that each theory credit unit is equivalent to 2 practical credit units.

1.4 Normal duration for the Degrees of Bachelor of Science in Information Technology and bachelor of Business Information Technology shall be not less than THREE calendar years and not more than FIVE Calendar years.

1.5 Each registered student will undertake an industrial attachment/internship during the holiday break between first semester Senior Year and second semester Senior Year. Each attachment session will be 4 credits, being equivalent to 2 practical courses. The attachment/Internship will be assessed on Pass/Fail basis, wherein a Pass shall be categorized as either, Ordinary Pass, Credit Pass or Pass with Distinction.

2. REGISTRATION

2.1 Students who register for units after the regular allowable registration period as specified by the office of the Chief Registrar, Amoud University, shall have their registration approved subject to their paying a late registration fee, which may be determined from time to time at the discretion of the University Senate.

2.2 No registration of students or modification of required or additional units shall be allowed upon expiry of the late registration deadline.

2.3 A student who does not register for a particular unit but who completes the course work and who sits for the final examination in that unit will be deemed not to have sat for the examination in that unit.

3. DEFERMENT

3.1 Subject to the approval of the University Senate a newly admitted student who for some good cause is unable to register in sophomore year of study may be allowed to defer his/her admission for one or two complete academic years, and to be re-admitted to the sophomore year at the start of the following academic year or of the academic year immediately thereafter.

3.2 Subject to the approval of the University Senate a continuing student who for some good cause is unable to register in any year may be allowed to stay out of the University for a period of one or two complete academic years, and to resume study at the start of the following year or of the year immediately thereafter. Such a student shall not be treated as a repeating student for the year in question unless he/she had already been required to repeat that year.

3.3 Subject to the approval of the University Senate a student who has registered and who for some good cause is unable to complete the course work for any year may be permitted to register for the same year as a readmitted student at the start of the following year or of the Year immediately thereafter. Such a student shall not be treated as a repeating student for the year in question unless he/she had already been required to repeat that year.

4. DEREGISTRATION

4.1 Subject to the approval of the University Senate, a student who has qualified to register for any year of study but has failed to register by the end of registration deadline of the current semester shall be assumed to have deserted from the degree course and shall be deregistered forthwith.

4.2 Subject to the approval of the University senate, a student who absents himself/herself from at least five University examinations in any semester shall be assumed to have deserted from the degree course, and shall be deregistered forthwith.

5. EXAMINATIONS

5.1 ORDINARY FINAL EXAMINATIONS

- 5.1.1 All units shall be examined during the semester in which they are taken. Such examinations shall be named University Final Examinations.
- 5.1.2 Examinations shall consist of continuous assessment tests and University Final Examinations.
- 5.1.3 All examinations shall be moderated by internal and external examiners.
- 5.1.4 Continuous Assessments shall consist of Class Attendance, Practical labs, tests and assignments. The assessment will be made up as stated here below.
- 5.1.5 **Theory based units:-** Continuous Assessments shall contribute 40% of the total marks and written Final University Examinations shall contribute 60% of the total marks;
- 5.1.6 **Practical/theory based units:-** Continuous Assessments shall contribute 60% of the total marks and written University Examinations shall contribute 40% of the total marks.
- 5.1.7 **Solely practical based work:-** shall be assessed out of 100% by continuous assessment.
- 5.1.8 A student who has not completed two thirds of the continuous assessments for any unit shall have his/her Final examination results nullified and shall be deemed to have failed in the unit with a total score of zero mark.
- 5.1.9 The Final University Examinations shall consist of written papers covering each unit completed. The time allowed shall be a maximum of 2 hours 30 minutes per unit.

Grading

- 5.1.10 Each course unit shall be graded out of 100 marks and the pass mark shall be 50 marks. The marks shall be translated into letter grades as follows:-

90% and above	A
80% and above but less than 90%	B
65% and above but less than 80%	C
50% and above but less than 65%	D
Below 50%	F

5.1.11 Subject to the provisions of the senate, a student who, without good cause absents himself/herself from a University Examination for any course unit shall be deemed to have failed in the course unit, with a total mark of zero.

5.1.12 Both Industrial Attachment/Internship and Amoud University Comprehensive Examinations shall be assessed and graded on PASS/FAIL basis. The Pass shall be categorized as under **Ordinary Pass** (50%-79% marks), **Credit Pass** (80%-89% marks) or Pass with **Distinction** (90%-100% marks).

5.2 RE-EXAMINATIONS

5.2.1 A candidate who fails in not more than FIVE (5) course units in Sophomore Year or Junior Year or not more than THREE (3) in Senior Year shall be required to sit for Re-Examination(s) in the failed Course unit(s). However, a candidate is allowed to sit for re-examinations for only two (2) courses in one semester.

5.2.2 Re-Examinations shall typically be administered four weeks after the opening of subsequent academic semester or any other time as pre-determined by the University.

5.2.3 The maximum marks in Re-Examinations shall be 65%, and by extension grade C, and shall not include continuous assessment marks.

5.2.4 A candidate who fails in any Re-Examination shall be given an academic warning and allowed to repeat the failed unit when next offered.

5.2.4 A student who, without good cause, absents himself/herself from all the Re-Examinations he/she was required to sit shall be deemed to have failed in the Re-Examination with a total mark of zero. The student shall be required to repeat the unit when next offered and given an academic warning.

6. SPECIAL EXAMINATIONS

6.1 If for some good cause a candidate is unable to sit for one or more course unit examination(s), he/she may, on the recommendation of the head of the department, and with the approval of the Senate, be permitted to take special examinations. Special examinations shall normally be scored out of 100% including continuous assessments.

6.2 A student wishing to defer his/her examinations may do so one week before the start of examinations and shall be allowed to sit for them when next offered.

7. RE-EXAMINATIONS IN FAILED UNITS

- 7.1 Subject to the provision of the senate a candidate who fails in FIVE (5) units or more in any semester shall be given an academic warning and allowed to take re-examinations in the failed units in the subsequent semester or when next offered subject to clause 4.3
- 7.2 A candidate who fails the same unit in a re-examination shall not be allowed to sit for another re-examination. Instead, the student shall be required to take a re-course.

8. GRADING SYSTEM.

Each course unit will be graded out of a maximum of 100 marks and assigned appropriate letter grade and a grade point as follows:

- 8.1 The grading system shall be as follows:

Marks	Grade	GPA Points	Comments
90 < 100	A	4	Excellent
80 < 90	B	3	Good
65 < 80	C	2	Fair
50 < 65	D	1	Pass
0 < 50	F	0	Fail

- 8.2 Degree Classification:

The following additional letters will be used where appropriate:

W: Withdrawal from course I: Incomplete P: Pass
 AU: Audited Course only F: Fail/Failure

- 8.3 Industrial Attachment/ Internship shall be assessed and graded on PASS or FAIL basis.
- 8.4 Minimum Pass Mark:

A minimum pass grade point for each course unit shall be 1.0(Grade Point)

- 8.5 Cumulative Grade Point Average (CGPA)

The CGPA shall be calculated as follows:

$$CGPA = \frac{\sum_{i=1}^n (GP_i * CU_i)}{\sum_{i=1}^n CU_i}$$

Where GP_i is the Grade Point Score of a particular course i ,
 CU_i is the number of Credit Units of the course i , and n is the number of courses so far done.

9. PROGRESSION

Progression through the programme shall be assessed in three ways:

9.1 Normal Progression:

This occurs when a student passes each course taken with a minimum required grade point average 2.0

9.2 Probationary:

This is a warning stage and occurs if either the cumulative Grade Point Average is less than 2.0 and/ or the student has failed a core course. Probation is waived when these conditions cease to hold.

9.3 Other Conditions for Progression:

9.3.1 A candidate can only sit for a higher course unit after passing the required pre-requisite.

9.3.2 A candidate may register for a course unit only if the prerequisite course unit has been passed. However a candidate may be allowed to register for a course unit and the prerequisite course unit at the same time if the candidate had previously attempted and failed in the prerequisite course unit.

9.3.3 A candidate can only be allowed to continue with his/her studies with a maximum of one failed unit, provided the unit will not be a pre-requisite.

10. DEFERMENT

10.1 Subject to the approval of the University Senate a newly admitted student who for some good cause is unable to register in the sophomore year of study may be allowed to defer his/her admission for one or two complete academic years, and to be admitted to the sophomore year at the start of the following academic year or of the academic year immediately thereafter.

10.2 Subject to the approval of the University Senate a continuing student who for some good cause is unable to register in any year may be allowed to stay out of the University for a period of one or two complete academic years, and to resume study at the start of the following year or of the year immediately thereafter. Such a student shall not be treated as a repeating student for the year in question unless he/she had already been required to repeat that year.

10.3 Subject to the approval of the University Senate a student who was registered and who for some good cause is unable to complete the course work for any year may be permitted to register for the same year as a readmitted student at the start of the following year or of the Year immediately thereafter. Such a student shall not be treated as a repeating student for the year in question unless he/she had already been required to repeat that year.

10.4 A student wishing to temporarily suspend his/her studies must apply for academic leave. The academic leave becomes official only after endorsement by the University Senate. Academic leave can only be taken at the start of the semester. The leave cannot extend beyond two (2) continuous semesters and the leave duration will be part of the programme duration. A candidate on leave must renew his/her registration at the beginning of every semester.

11. DISCONTINUATION

- 11.1 A candidate who fails in more than one re-course unit shall be discontinued.
- 11.2 A candidate who fails to attain the required minimum 1.5 cumulative GPA after two semesters in Sophomore year and one semester in junior year shall be discontinued.

12. DEREGISTRATION

- 12.1 Subject to the approval of the University Senate a student who has qualified to register for any year of study but has not registered by the end of fourth week of any semester shall be assumed to have deserted from the degree course and shall be deregistered forthwith.
- 12.2 Subject to the approval of the University Senate a student who absents himself / herself from University examinations in any semester without a valid reason shall be deregistered from the course.

13. EXAMINATION IRREGULARITIES

- 13.1 A student who is found guilty of any irregularities during any continuous assessment or University Final examination shall be subjected to the appropriate penalties as detailed in the University document on examination irregularities as per the University Examination Regulations.

14. APPEAL FOR REASSESSMENT

- 14.1 A student who is not satisfied with the grade, which he/she has been awarded in any unit, may appeal to the Chief Academic Registrar for a re-marking of the written examination paper in that unit upon payment of USD 5 to the registrar, which fee the University Senate may review from time to time. The grade and mark recommended by the examiner(s) after remarking should be the final grade and mark awarded to the student for the unit. No appeal for re-marking of any unit shall be accepted in cases where the appeal has been submitted later than one month after the student has been notified of the result.

15. OTHER REGULATIONS

- 15.1 Fees
Notwithstanding any of the above, registration of a student for the Bachelor of Science in Information Technology, Release of results and awarding of the Degree shall be subject to the student fulfilling all University regulations concerning payment of fees and other monies due to the university.
- 15.2 All students will be expected to adhere to the general regulations as set out in the students' code of conduct obtainable from the Office of Students Affairs and Counseling Services Office.