

Table of Contents

1.	Introduction	3
2.	Rationale	3
3.	Aims of the programme	3
4.	Programme Learning Outcomes	4
5.	Level of Qualification and Articulation in the Zambia Qualifications Framework	4
6.	Program Structure	5
7.	Academic Delivery Plan	6
8.	Assessment	7
9.	Facilities for Programme Delivery	7
10.	Entrance Requirements, Curricula and Degree Regulations	9
11.	Examinations	9
12.	Career Progression 1	0
13.	Degree Regulations 1	0
14.	Degree Classification 1	0

1. Introduction

School of Business and Information Technology at TAU, imparts all the basic technical skills to the students to get expertise in various technologies and keeping them updated in the global scenario. The School is dedicated in providing a unique learning experience that would enhance a student's education professionally. The School strictly adheres to its curriculum on the current technology and standards so as to meet the everyday challenges in the industry. The course is offered in Full time, Part time and Distance & Blended mode.

2. Rationale

Information Technology is a developing and pressing field across the world, which makes a great choice for students to take an active role in changing life around them! Texila American University renders a cost-effective approach in Information Technology programs specifically designed with an objective of making students as IT Professionals with various sub sections of IT like Artificial Intelligence,

3. Aims of the programme

TAU Bachelor program in Artificial Intelligence envisage every student's pre-requisites and provides suitable technical training for the students to get placed in the well-established organization. The objective of the course is.

- To prepare students with knowledge in Artificial Intelligence techniques and methods, to be able to deal with and solve technological and scientific problems.
- To allow students to be creative in addressing and solving scientific and technological problems through Artificial Intelligence
- To Design and build machine learning systems using best practices, patterns and use Programming language, scientific tools, environment to demonstrate software development skills.
- To Apply the algorithms to a real-world problem, optimize the models learned, and report on the expected accuracy obtained by using Artificial Intelligence.
- To produce graduates who can demonstrate knowledge and understanding of essential Artificial Intelligence application facts, concepts, principles, and theories with a skill to understand the components of computational thinking.

4. Programme Learning Outcomes

The learners would be able to:

- Understand the significance of visualization in data analytics solutions and Differentiates between a conventional and an intelligent system.
- Use structured thinking to solve unstructured real-time problems.
- Understand a wide range of machine learning algorithms and problems.
- Learn machine learning algorithmic topics that are mathematically deep enough to introduce the necessary theory and enable to provide smart solutions to societal needs of sub-Sahara and globe.

5. Level of Qualification and Articulation in the Zambia Qualifications Framework

ZQF level :7

EXAMPLE:

At this level, it is expected that the graduate shall:

- a) Gain knowledge and critical understanding of well-established principles of all the emerging issues in Computing and Information Technology, and of the way in which those principles have developed.
- b) Develop the ability to apply underlying concepts and principles outside the context in which they were first studied, including, where appropriate, the application of these principles in varied contexts.
- c) Gain knowledge of the main principles of Computing and Information Technology and ability to critically evaluate the appropriateness of different approaches in solving problems.
- Apply a range of established Computing and Information Technology techniques to initiate and undertake critical analysis of information, and to propose solutions to problems in the field of Artificial Intelligence.
- e) Effectively communicate information, arguments, and analysis, in a variety of forms, to various audiences.
- f) Present information, manage team, transfer knowledge, skills and values to others through delegation and practice.

- g) Develop existing Computing and Information Technology skills and acquire new competencies to enable assumption of significant responsibility within organizations.
- h) Exercise personal responsibility, initiative and decision-making in complex and unpredictable contexts.
- Demonstrate some originality, innovativeness and creativity in formulating, evaluating and applying evidence-based solutions and arguments within the field of Computing and Information Technology.

		YEAR 1		
YEAR		COURSE TITLE	CREDIT POINTS	
	SIT101	Introduction to Computer Programming	15	
	SIT102	Mathematics – I	15	
	SIT103	Introduction to Cyber Security	15	
	SIT104	Introduction to Digital Technologies	15	
Year 1	SIT105	Introduction to Emerging Technologies	15	
	SIT106	Introduction to Mobile Application Development	15	
	SIT107	Introduction to Web Development	15	
	SIT108	Computer Organization and Architecture	15	
		Total	120	
		YEAR 2		
YEAR		COURSE TITLE	CREDIT POINTS	
YEAR	SIT201	COURSE TITLE IT and Society	CREDIT POINTS 12	
YEAR	SIT201 SIT202	COURSE TITLE IT and Society Mathematics - II	CREDIT POINTS1212	
YEAR	SIT201 SIT202 SIT203	COURSE TITLE IT and Society Mathematics - II Computer Programming	CREDIT POINTS 12 12 12 12	
YEAR	SIT201 SIT202 SIT203 SIT204	COURSE TITLE IT and Society Mathematics - II Computer Programming Human Computer Interaction	CREDIT POINTS 12 12 12 12 12 12 12 12	
YEAR	SIT201 SIT202 SIT203 SIT204 SIT205	COURSE TITLEIT and SocietyMathematics - IIComputer ProgrammingHuman Computer InteractionSystems Analysis and Design	CREDIT POINTS 12 12 12 12 12 12 12 12 12 12 12 12 12	
YEAR	SIT201 SIT202 SIT203 SIT204 SIT205 SIT206	COURSE TITLEIT and SocietyMathematics - IIComputer ProgrammingHuman Computer InteractionSystems Analysis and DesignSoftware Engineering	CREDIT POINTS 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12	
YEAR Year 2	SIT201 SIT202 SIT203 SIT204 SIT205 SIT206 SIT207	COURSE TITLEIT and SocietyMathematics - IIComputer ProgrammingHuman Computer InteractionSystems Analysis and DesignSoftware EngineeringE-commerce Applications	CREDIT POINTS 12	
YEAR Year 2	SIT201 SIT202 SIT203 SIT204 SIT205 SIT206 SIT207 SIT208	COURSE TITLEIT and SocietyMathematics - IIComputer ProgrammingHuman Computer InteractionSystems Analysis and DesignSoftware EngineeringE-commerce ApplicationsRelational Database Systems	CREDIT POINTS 12	
YEAR Year 2	SIT201 SIT202 SIT203 SIT204 SIT205 SIT206 SIT207 SIT208 SIT209	COURSE TITLEIT and SocietyMathematics - IIComputer ProgrammingHuman Computer InteractionSystems Analysis and DesignSoftware EngineeringE-commerce ApplicationsRelational Database SystemsInformation Systems Theory and Practice	CREDIT POINTS 12	
YEAR Year 2	SIT201 SIT202 SIT203 SIT204 SIT205 SIT206 SIT207 SIT208 SIT209 SIT210	COURSE TITLEIT and SocietyMathematics - IIComputer ProgrammingHuman Computer InteractionSystems Analysis and DesignSoftware EngineeringE-commerce ApplicationsRelational Database SystemsInformation Systems Theory and PracticeManagement Information Systems	CREDIT POINTS 12	
YEAR Year 2	SIT201 SIT202 SIT203 SIT204 SIT205 SIT206 SIT207 SIT208 SIT209 SIT210 SIT200	COURSE TITLEIT and SocietyMathematics - IIComputer ProgrammingHuman Computer InteractionSystems Analysis and DesignSoftware EngineeringE-commerce ApplicationsRelational Database SystemsInformation Systems Theory and PracticeManagement Information SystemsInternship - (Non-Credit Course -8 weeks)	CREDIT POINTS 12	

6. Program Structure

		YEAR 3		
YEAR		COURSE TITLE	CREDIT POINTS	
	SIT301	Cyber Security	12	
	SIT302	Advanced Database Design and Development	12	
	SIT303	Web Based Development	12	
	SIT304	Network Design	12	
Year 3	SIT305	Ethical, Legal and Regulatory Issues and Professional Responsibilities in IT	12	
	SIT306	Strategic Management Information Systems*	12	
	SIT307	Innovative Technologies in Computing	12	
	SIT308	Computing Research Methods	12	
	SIT309	Software Development Methodologies	12	
	SIT310	Managing a Computing Project - Project Work	12	
		Total	120	
		YEAR 4		
YEAR		COURSE TITLE	CREDIT POINTS	
	BAI401	Phython for AI- ML	12	
	BAI402	Predictive Analysis	12	
Voor 4	BAI403	Machine Learning	12	
r ear 4	BAI404	Deep Learning	12	
	BAI405	Natural Language Processing	12	
	BAI406	Internship and Project	60	
		Total	120	

Total Program Credits : 480

7. Academic Delivery Plan

Texila American University Zambia is providing quality education with its state-of-the-art infrastructure, best learning methodology and technology enabled academic services.

- Uniquely Designed Learning Methodology
- Outcome Based Academic Delivery
- Continuous Academic Support
- Enhanced Learning Management Systems
- Technology Enabled Services

8. Assessment

A candidate has to pass both formative assessment and summative assessment. Candidate should secure at least 50 % of total marks in formative as well as summative assessment to clear each course.

Assessment	Weightage
Formative Assessment	
Unit Test	40%
Summative Assessment	
Final Exam (MCQ's)	60%
TOTAL	100 %

9. Facilities for Programme Delivery

TAU has excellent facilities for the program delivery designed keeping in mind the needs of the student in all means.

Classroom:

All our classrooms are well equipped with Hi tech facilities like specially designed classroom projector with computer with uninterrupted network connection. Our entire classrooms are centralized air-conditioned with good lighting. Comfortable seating arrangements are made for student's comfort. We have well equipped and designed computer laboratory with more than 60 computers and one dedicated Server connection for use. To strengthen our Information and Communication technology we have authorized CISCO networking systems.

Research policy: TAU-Zambia has a separate research policy to develop and maintain state of the art technology, resources (research grants/scholarships etc.,), facilities and personnel to

support educational and advanced research for both students and faculty.

Library

A learning hub for students to satisfy their thirst for inquisitive knowledge and urge. Our huge database is filled with information which can easily help in your academic brilliance.

TAU Library is equipped with good number of relevant books for the students to refer and make use of the books for their continuous academic growth.

Learning Management System (LMS)

Learning Management System is the Academic Delivery platform for student, through which lecture contents, video lectures, learning resources, assessment, project submission, grading, etc. A Learning Management System (LMS) is a web-based application through which learning content is delivered and managed. An LMS is tied to on-line and off-line training, administration, and performance management and includes functionality for course catalogs, launching courses, registering learners, tracking learner progress and assessments. An LMS combines a front-end for the learner with a back-end for administrators and instructors. This LMS seamlessly displays, in a browser interface, real-time information drawn from a database. It also allows for competency-driven assessment and course associations

ERP: Enterprise Resource Planning Portal is Campus Management System, It manages enrolled students database, exam results, faculty details, student's survey, calendar etc. All students are provided access to this portal for viewing followings: • Enrollment Status, Profile of the Student, Exam Results, Calendars, Invoice and Payment Status.

E-Conference:

E-Conference is an innovative platform which provides an excellent international forum for

sharing knowledge and results. The E-Conference was conducted on the OPEN FORUM, the first of its kind. It includes Open forum, all accepted articles will be placed for discussion. Every article to be reviewed by other Authors or Reviewers. The Reviewers or Authors can place in their comments and views on the article as part of the discussion forum. The highlight of the Open forum discussion is that there is no time or place constraint.

E-Journal:

E-INTERNATIONAL JOURNALS OF ACADEMIC & SCIENTIFIC RESEARCH: EIJASR

is an endeavor by the organization to overcome the barriers in the easy and fast access of research data. Our goal has been to go beyond borders in the field of academic research. There is an interactive platform where individuals can gain access to educational and scientific journals. Besides publishing journals related to various field of study, the EIJASR helps in indexing and calculation of impact factor of journals. This online journal website assists students in checking out the findings and scientific details of the latest technologies and diseases. It helps one to publish his or her findings and create awareness about it in the scientific and medical field. There is a great shortage of platforms where one can publish his thesis or findings and it has led to various discoveries and cures being shelved up.

10. Entrance Requirements, Curricula and Degree Regulations

- O level with minimum Credit or better in 5 subjects (or)
- 3 years Diploma in relevant speciality from recognized university (or)
- 2 years Diploma in relevant speciality from recognized university with 3 years of work experience

Non- English-Speaking Countries:

Additional requirements required as proof of English proficiency from

- TOEFL (Test of English as a Foreign Language)
- IELTS (International English Language Testing System) Score of 4.0 and above
- Cambridge/ The International Baccalaureate (IB)

11. Examinations

- Formative assessment comprises of 40 % and Summative assessment comprises of 60% weightage.
- A candidate has to pass both formative assessment and summative assessment.
- Candidate should secure at least 50 % of total marks in formative as well as summative asessment to clear each course.

12. Career Progression :

On successful completion of B.Sc. degree students have opportunities to do their master's degree in Information Technology / Computer Science / Data Informatics/ Information Security / Artificial Intelligence locally and globally.

- On successful completion of B.Sc. In Artificial Intelligence Degree following are the opportunities available in Zambia and globe.
- IT Project Manager
- Information Security Analyst.
- Data Scientist
- Business Intelligence Developer.
- AI Product Manager.
- AI Consultant.
- Robotics Engineer.

13. Degree Regulations

The student will be eligible for the award of the Bachelor of Science in Artificial Intelligence, on successful completion of all the academic requirements

14. Degree Classification

TAU offers Bachelor of Science in Artificial Intelligence program for the students who have successfully fulfilled all the academic requirements.

