

THE INSTITUTE OF FINANCE MANAGEMENT (IFM)

PROGRAMMES OFFERED BY FACULTY OF COMPUTING, INFORMATION SYSTEMS AND MATHEMATICS (FCIM)

Bachelor of Computer Science (BCS)

The qualification is designed to produce competent, responsible and creative graduates to develop innovative software applications. The programme has been developed towards producing graduates with outstanding programming skills and the ability to design, implement, and maintain complex information technology systems.

Programme Objective

The graduates of this programme will be competent and able to;

- (i) Develop, manage and administer computer-based information systems and networks.
- (ii) Apply computing principles and mathematical theory to develop sustainable solutions to current and future computing problems.
- (iii) Apply design and development principles in the construction of software systems of varying complexity

Carrier Opportunities

The programme opens up opportunities in several areas of information technology. A graduate of this programme can work as software developer, network administrator, IT project manager, software engineer and web developer.

Programme Duration

The programme runs for three (3) years.

Entry Requirement and Eligibility

Direct Entry: Two principal passes in Physics and Mathematics

Equivalent qualification: Diploma in Information Technology or Computer Engineering or Computer Science with at least average of "B" or GPA of 3.0, and at least Four Passes (Excluding Religious Subjects) at O' Level.

Application Fee

Applicants have to pay a non-refundable application fee of TZS 10,000/=. For other fees (registration, allowance, field attachment, caution money etc); please contact the admissions office or visit the IFM website.

Tuition Fee Structure

- i) For Tanzanians is Tshs. 1,700,000 payable in two installments.
- ii) For Foreign Students is US \$ 2,000 payable in two installments.

Mode of Application

1. Applications are done online through <http://www.ifmsis.ac.tz/oas/>

Curriculum Structure

Subject Code	Subject Name
YEAR I Semester I	
CSU07101	Programming in C I
ITU07102	Fundamentals of Computers
GSU07101	Communication Skills
MTU07104	Mathematics I
GSU07102	Development Studies
ITU07101	System Analysis and Design I
Semester II	
CSU07202	Programming in C II
ITU07203	System Analysis and Design II
CSU07203	Fundamentals of Databases
ITU07204	Fundamentals of Web Technologies
CSU07204	Fundamentals of Data Communication
CSU07205	Operating Systems I
ITU07205	Field Practical Training Report I
YEAR II Semester III	
MTU07305	Mathematics II
CSU07306	Database Management Systems
CSU07307	Internet and Web Development Technologies
CSU07308	Operating Systems II
CSU07309	Data Structures and Algorithms
ITU07205	Field Practical Training Report I
CSU07310	Visual Programming (Elective)
ITU07307	Multimedia Systems (Elective)
Semester IV	
CSU07411	Object Oriented Programming
CSU07412	Computer Networks
MTU07406	Discrete Mathematics
CSU07413	Software Engineering
ITU07411	Computer Systems Security
ITU07410	Field Practical Training Report II
ITU07408	Electronic Commerce (Elective)
ITU07409	Human Computer Interface (Elective)
YEAR III Semester V	
STREAM: COMPUTER NETWORKS	
CSU08102	Advanced Networking I
CSU08103	Wireless Technologies
CSU08104	Distributed Systems
ITU08102	IS Research methods
MTU08101	Operational Research
ITU08103	E-Government (Elective)
ITU08101	IS Strategy Formulation (Elective)
STREAM: SOFTWARE ENGINEERING AND DATA BASE DEVELOPMENT	
CSU08105	Software Engineering II
CSU08106	Advanced database Technologies

Subject Code	Subject Name
ITU08102	IS Research methods
MTU08101	Operational Research
CSU08104	Distributed Systems
ITU08101	IS Strategy Formulation (Elective)
ITU08105	Customer Relationship Management (Elective)
Semester VI	
STREAM: COMPUTER NETWORKS	
CSU08208	Advanced Networking II
CSU08209	Network Security
CSU08210	Artificial Intelligence
ITU08209	Final Year Project
MSU08201	ICT Entrepreneurship
ITU08208	Management of Technology & Innovation (Elective)
CSU08212	Social Network Technologies (Elective)
STREAM: SOFTWARE ENGINEERING AND DATA BASE DEVELOPMENT	
CSU08213	Mobile Programming
CSU08214	Advanced web programming
CSU08215	Artificial Intelligence
ITU08206	Final Year Project
MSU08201	ICT Entrepreneurship
ITU08207	ICT Policy Formulation (Elective)
ITU08208	Management of Technology & Innovation (Elective)

Industry Connections

At the end of year one and year two students undertake a field placement where they work in different organizations for eight weeks. Field placement provides students with the experience of seeking and securing a job, as well as practical experience and industry contacts that will benefit their academic study and longer-term career.

In the last semester during the third year students undertakes a project (ITU08206 Final Year Project) that simulates working in industry. In this project students apply skills in software application development. Many students tackle real-world problems for their projects, with the close involvement and supervision of lecturers and industry partners.

For More Information Contact:

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