

MASTER OF SCIENCE IN ICT ARCHITECTURAL DESIGN AND MANAGEMENT

According to the NCHE's guidelines for ICT programs, there is a growing need for professionals who possess a strong foundation in ICT management, policy, and architectural design. The guidelines emphasize the importance of equipping graduates with the necessary skills to manage ICT systems, analyze complex computer-based systems, and adapt to emerging technologies. Additionally, the guidelines highlight the significance of integrating legacy systems, understanding the system development life cycle, and staying updated with current trends in IT systems development.

Therefore, the Master of Science in ICT, Management, Policy, and Architectural Design program focuses on equipping students with the necessary skills and knowledge to excel in managing Information and Communication Technology (ICT) systems. The curriculum covers a wide range of topics, including understanding common ICT technologies and processes, mastering the system development life cycle and methodologies applicable to ICT projects, addressing challenges in integrating legacy systems into current environments, exploring current and future trends in IT systems development, and analyzing large and complex computer-based systems.

Additionally, students will gain an introduction to computer organization and related concepts. This comprehensive program prepares students for managerial roles in the ICT field by providing a strong foundation in ICT management, policy, and architectural design.

Program Objectives

- The program focuses on providing students with a deep knowledge of Information and Communication technologies and their applications in ICT systems.
- Students will develop the skills necessary to effectively manage ICT systems, projects, and teams, while also gaining knowledge in ICT policy development and governance.
- Analyze and modify complex computer-based systems: The program aims to equip students with the ability to analyze and modify large and complex computer-based systems to enhance their performance, reliability, and security.
- Students will stay up-to-date with the latest trends, advancements, and emerging technologies in IT systems development, enabling them to adapt and innovate in a rapidly changing ICT landscape.
- The program emphasizes the importance of ethical considerations and moral responsibility in ICT management, encouraging students to develop their ethical reasoning skills and cultivate integrity, social responsibility, and empathy in their professional practices.

Entry Requirements

- To qualify for admission, a candidate must fulfill the general Uganda Martyrs University entry requirements for master's degrees
- And in addition, the candidate must be a holder of either; A Bachelor's degree in Information Systems or Computer Science or software engineering or Information Technology or engineering from a recognized University/ Institution; or any other degree with evidence of having taken acceptable courses in ICT and the minimum class of the bachelor's degree should be a second class lower.

Program Structure

Module Code	Course Name	Type	CH	CU
YEAR 1 SEMESTER 1				
MICT6101	Database Systems	Core	60	4
MICT6102	Enterprise Architecture	Core	60	4
MICT6103	ICT Strategy and Policy Planning	Core	60	4

MICT6104	Research Methods for Computing	Core	60	4
MICT6105	IT Security and Auditing	Core	60	4
MICT6106	ICT Acquisition and Management	Core	60	4
	Total CU	Core		
YEAR 1 SEMESTER 2				
MICT6201	ICT Management	Core	60	4
MICT6202	ICT Design Selection and Management	Core	60	4
MICT6203	Advanced Systems Administration	Core	60	4
MICT6204	Consultancy Skills Development for ICT Professionals	Core	45	4
MICT6205	Science Technology and Ethics	Core	45	4
MICT6206	Financial Management for Computing	Core	45	4
	Total CU			
YEAR 2 SEMESTER 1				
MICT6301	Digital Forensics	Core	60	4
MICT6302	Technology Emerging Trends and Business Innovation	Core	60	4
MICT6303	IT Project and Enterprise Change Management	Core	60	4
MICT6304	Modelling and Simulation	Core	60	4
MICT6305	Management for IT Professionals	Elective	60	4
MICT6306	E-Service Delivery	Elective	60	4
MICT6307	Enterprise Business Analytics	Elective	60	4
	Total CU			
YEAR 2 SEMESTER 2				
MICT6401	Dissertation	Core	300	17
	Total CU			
	Total Program Load			82