



**PROFESSIONAL SCHOOL**  
**MASTERS IN INFORMATION TECHNOLOGY (MIT)**  
**COURSE OFFERINGS FOR SY 2022-2023**

<b>FIRST YEAR</b>			
<b>First Semester</b>		<b>Unit</b>	<b>Course Description</b>
	<b>Subject Title</b>		
MIT101/L	Advanced Operating System and Networking	3.0	This graduate-level course deals with the broad range of topics of the operating system (OS) in terms of application and stability which includes the types of OS from legacy towards the quantum computing and the selection of the appropriate OS for cloud, desktop and mobile applications. Also, the course will allow the students to demonstrate the application of subnetting, vlan, frame-relay and network security.
MIT102/L	Advanced Database System	2.0	This course covers the modern database and information systems as well as research issues in the field. It will cover selected topics on object-oriented, workflow, active, deductive, spatial, temporal and multimedia databases. It will also discuss recent advances in database systems such as data mining, online analytical processing, data warehousing, declarative and visual query languages, multimedia database tools, web and unstructured data sources, and client-server and heterogeneous systems.
MIT103/L	Advanced Systems Analysis, Design and Implementation	3.0	This course covers systematic approaches to software design, project management, implementation, documentation, and maintenance. It will also cover software design methodologies such as Systems Analysis/Systems Design, Object-oriented Analysis/Object-oriented Design and software quality assurance and testing.

<b>Second Semester</b>		<b>Unit</b>	<b>frame-relay and network security.</b>
	<b>Subject Title</b>		
ED203	Methods of Research	2.0	This course is designed to hone the knowledge, attitudes, and skills of the students in doing research. This will expose them to any of the three research paradigms and their corresponding methods as they write their research proposals and prepare their survey questionnaires for quantitative study or interview guide for qualitative study.
MIT104/L	Technology and Project Management	3.0	This course covers the fundamental project management principles and methodologies for managing the software development lifecycle and process models. It will also cover topics on process metrics; software project planning; monitoring, control, and schedule mechanisms; budget estimates; risk assessment; and leadership, motivation, and team building.
MIT105/L	Specialization Course 1	3.0	This graduate-level course aims to pass any of the International Certification Examination according to student's specialized field.

<b>FIRST YEAR - SUMMER</b>			
<b>Code</b>	<b>Subject Title</b>	<b>Unit</b>	<b>Course Description</b>
ED201	Basic Inferential Statistics	3.0	This course provides background on different statistical principles, probability theory and hypothesis testing through describing and interpreting data sets in preparation for the different statistical application to research with utmost accuracy. Also, this course offers utility to different statistical software. Moreover, this course introduces the analyses for regression models and structural equations models.
MIT106/L	Specialization Course 2	3.0	This course surveys current research in software engineering / systems development. Topics include both the technical aspects of software development and issues pertaining to software process and project management.
MIT107/L	Specialization Course 3	3.0	This course provides a broad overview of the issues managers face in the selection, use, and management of information technology (IT). Increasingly, IT is being used as a tool to implement business strategies and gain competitive advantage, not merely to support business operations. Using a case study approach, topics include information technology and strategy, information technology and organization, and information technology assets management.

SECOND YEAR				
FIRST Semester		Subject Title	Unit	Course Description
MIT109/L		Capstone Project 1	3.0	This subject teaches students to develop researches and projects in the field of Information Technology. It discusses global opportunities in Information Technology researches. It also discusses areas of research in Information Technology such as software development, Multimedia Systems, Network Design and implementation; and server farm configuration and management and IT Management and other IT related topics. In this subject, the students are required to formulate research or project title and formulate research problems and methods.
MIT108/L		Specialization Course 4	3.0	This course will focus on a methodology that teaches business model design, customer development and agile engineering – popularly known now as the Lean Startup Model. The end in mind is not a full business plan (which is basically a document of guesses) but a feasible business model and a proof of concept that are commercial-ready and, hence, incubation- ready. The journey begins with opportunity validation, then to product-market fit, and finally to commercial- readiness. The business concept and proof of concept (can be wireframes or prototypes) are results of actual market and product validation experiences. The strategy is to embed the ideation stage in the Technopreneurship course. By this way, the course can regularly churn out multiple startup teams with viable business concepts and proofs of concept that are hopefully commercial-ready and incubation-ready.
GS100		Academic Writing	3.0	This course unfolds elemental knowledge on academic writing environments. The focus of the study will revolve around in-depth discussions on the paragraph development, thesis statement, plagiarisms, paraphrasing and referencing.

Second Semester		Subject Title	Unit	Course Description
MIT201/L		Industry Immersion	3.0	Industry Immersion is intended to strengthen and reinforce learning from the classroom. During Industry Immersion programs, graduate-students have firsthand exposure to a variation of sectors across the public and private business, communication, and media, as well as to alumni / company contacts and insight that will shape their career trajectories.
MIT202/L		Business Analytics	3.0	This course introduces Master in Information Systems majors to the analytics concepts and focus on descriptive analytics or business intelligence. The course provides a theoretical understanding on some descriptive analytical functions for understanding predictive and forecasting reports. The course contains in-depth coverage on report generation and methods using tools like MS Excel, MS Power BI, and IBM Cognos. The course shows on how to use the said tools to build reports and dashboards that are relevant for descriptive reporting.
MIT203/L		Capstone Project 2	3.0	A Master's Capstone Project is a culminating activity that generates an output useful in the development that focuses on software engineering process or application design that focuses on effective testing procedure or a study on application development processes. The student concerned must hold key responsibilities towards the development of the Capstone Project. The Capstone Project may be pilot-tested, and the result of the research and development must be presented in a national or international public forum.