



SCHOOL OF COMPUTING AND INFORMATICS
MSc Applied Computing
MSc Computational Intelligence
MSc Distributed Computing Technology
MSc Information Technology Management
MSc Information Technology Enabled Services



UNIVERSITY OF NAIROBI

For more information please contact:

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MSc ITM Domain Courses

CIT501	Principles and Practice of Management
CIT502	Financial Management
CIT503	ICT Strategic Management
CIT504	ICT Procurement Practice

MSc ITM Specialization Courses

CIT505	Electronic Commerce
CIT506	Cloud Computing and IT Outsourcing
CIT507	Information Systems Security and Audit

MSc ITES Domain Courses

CCC501	Research Methodology
CTC501	ITES Outsourcing Industry
CTC503	Advanced Business Communication
CTC504	Entrepreneurship in IT Enabled Outsourcing
CTC505	Planning and Management of ITES Organizations
CTC506	ITES Project Management
CTC507	Platforms and Tools for IT Outsourcing
CTC508	Information Security Management
CTC510	Management Communication
CTC603	Data Management and Analytics

MSc ITES Electives

CTC605	Contract Management
CTC607	IT Infrastructure for Outsourcing
CTC609	Organizational Communication
CTC611	Technical and Professional Communication
CTC613	ICT Innovation and Development
CTC614	ITES Quality Assurance and Management

Fee Structure

MSc AC/ MSc CI/ MSc DCT/ MSc ITM/ MSc ITES

Fee Item	Units	Cost/ Unit	Total
Tuition	10	24,000	240,000
Computer	2	5,000	10,000
SCI Lab	2	24,000	48,000
Library	2	6,000	12,000
Caution Money	-	-	5,000
Examination	2	5,000	10,000
Medical	2	5,000	10,000
Activity	2	2,000	4,000
Registration	2	2,000	4,000
Identity Card	2	500	1,000
Project Supervision			96,000
Total			440,000

- Fee is payable in four installments as per semester schedule
- Tuition fee is dependent on the number of units taken each semester
- Administrative fees (non-tuition) are payable per year i.e. Sem 1 and Sem 4
- Project Supervision is payable before start of project
- Caution money is payable once and is refundable upon clearance
- Foreign students to pay additional 25%

Application Procedure

Application is done online via the University application website <http://application.uonbi.ac.ke>

Venue: SCI Chiromo Campus
 Duration: 2 Years
 Mode of Study: Evenings—Mondays to Fridays
 5.30pm—8.30pm

Objectives

MSc Applied Computing

- Enable students with computing background to innovatively apply technologies to solve societal problems at a higher level of specialization.
- Demonstrate the value of state-of-the-art development in one area of specialization.
- Enable learners to effectively link research, innovation, entrepreneurship and practical application.

MSc Computational Intelligence

- Create new opportunities for postgraduate research in Computational Intelligence.
- Contribute to the production of computer science professionals with knowledge and skills in the theory and application of systems that perceive, reason, learn and act intelligently in solving real-world problems.
- Cultivate an active and relevant computational intelligence (IT) research and development community.
- Collaborate with industry to develop intelligent products and services that address needs in key economic sectors.
- Produce high quality research and products that can compete effectively at the global level

MSc Distributed Computing Technology

- Produce distributed systems engineers and technologist to plan, design, build, manage corporate computing systems, ISP and TSP networks and services.
- Produce researchers in the area of distributed computing technology who can explore and innovate new techniques for solving real world problems.

MSc Information Technology Management

- To provide an opportunity to graduates with a strong IT background to enhance their IT knowledge and management skills .
- To provide learners with skills necessary to implement ICT based solutions in organizations
- To equip learners with skills necessary to manage the ICT function in organizations.
- To inculcate interdisciplinary approach, work team

MSc Information Technology Enabled Services (ITES)

- Impart on the student a practical understanding of the potential business opportunities and growth potential in the ITES sector.
- Enable the student to formulate, synthesize, analyze, develop and interpret trends within the sector.
- Provide the student with the theoretical and practical skills necessary to provide leadership in the development an, provision and management of ITES in their organizations.
- Empower the student with the requisite knowledge and skills to establish their own ITES enterprises.
- Develop human capacity to transition Kenya to focus on higher levels of ITES value chain and grow the sector.

Admission Requirements

MSc Applied Computing

- BSc Information Technology/Computer Science of at least Upper Second
- BSc Information Technology/Computer Science Lower Second with 2 years' experience
- BSc Information Technology/Computer Science Pass with 5 years' experience
- Postgraduate Diploma in Computer Science or IS of at least Credit

MSc Computational Intelligence

- BSc Computer Science of at least Upper Second
- BSc Computer Science Engineering, Mathematics or Statistics of at least Upper Second
- BSc Computer Science Lower Second with 2 years' experience
- BSc Engineering, Mathematics or Statistics Lower Second with 2 years' experience

MSc Distributed Computing Technology

- BSc Computer Science /Engineering/Maths/Physics of at least Upper Second
- BSc Computer Science /Engineering/Maths/Physics Lower Second with 2 years' experience
- BSc Computer Science /Engineering/Maths/Physics Pass with 5 years' experience

MSc Information Technology Management

- BSc Information Technology/Computer Science of at least Upper Second.
- BSc Information Technology/Computer Science Lower Second with 2 years' experience.
- Postgraduate Diploma in Computer Science or Information System at least Credit.

MSc Information Technology Enabled Services

- Holders of a bachelor's degree with at least an upper second class honours in any discipline of the University of Nairobi or an equivalent qualification recognized by the University of Nairobi Senate.
- Holders of a bachelor's degree with at least a lower Second Class honours or an equivalent qualification recognized by Senate plus two years relevant work experience.
- Holders of a bachelor's degree with at least a pass degree of the University of Nairobi or an equivalent qualification recognized by Senate plus five years relevant work experience.
- Holders of a Postgraduate degree or diploma of the University of Nairobi or an equivalent qualification recognized by Senate.

Applicants for ALL programmes shall be required to pass an entrance examination

Course Structure

Common Courses for ALL Programmes

Code	Title
CCC501	Research Methodology
CCC502	ICT Project Management
CCC503	Product Design and Entrepreneurship

MSc AC Domain

CCA501	ICT for Development
CCA502	Advanced problem solving skills and
CCA503	Usability and User Experience
CCA504	Innovation Studies

MSc AC Electives

CCA505	ICT in Education
CCA506	Health Informatics
CCA507	Bio-Informatics
CCA508	Agri-Business
CCA509	ICT in Financial Services
CCA510	E-Governance
CCA511	ICT in Environmental Management

MSc CI Domain Courses

CCI501	Machine Learning
CCI502	Knowledge Representation and Reasoning
CCI503	Intelligent Systems Programming
CCI504	Intelligent Systems Modelling

MSc CI Electives

CCI505	Embedded Intelligent Systems
CCI506	Multi-agent Systems
CCI507	Analytics and Business Intelligence
CCI508	Language Technology
CCI 509	Image and Vision Systems

MSc DCT Domain Courses

CDT501	Communication Networks Technologies
CDT502	Distributed Computing Architecture
CDT503	Computing Systems Security
CDT504	Distributed Computing Services

MSc DCT Electives

CDT505	Performance Analysis and System Optimization
CDT506	Real Time and Embedded Systems
CDT507	Computer Forensics and Cyber Security
CDT508	Distributed Software Development and