UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

Faculty of Engineering, Built Environment and Information Technology

Fakulteit Ingenieurswese, Bou-omgewing en Inligtingtegnologie

School of Information Technology

Master of Information Technology
MIT ICT Information Science (Stream B)
Programme code: 12254016

Last Revision: June

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Purpose

Aim of programme:

- To build capacity to empower the next generation of library and information professionals with knowledge and skills to apply modern information communication and technology (ICT), in order to support academics and research.
- The programme is intended for middle management level Library and Information Science (LIS) professionals involved in managing ICT or working in ICT-intensive environments in libraries and information services and faculty members at Library and Information Science schools.
- This full-time **self-funded online** programme will consist of coursework as well as a mini-dissertation based on applied research related to the individual's own institution - each component carrying 50% of the credits of the programme.

Selection

Selection of candidates for this **self-funded**, full-time academic programme will be highly competitive and will consider Library and Information Science (LIS) professionals across the world. Anyone may apply for this course, considering that all fees should be paid for by the student him/herself or with help from his/her employer (see below for fees).

Selection is based on previous education, work experience and the strength of submitted motivation letter/essay. Applicants must meet the basic requirements for admission as stated below, but this does not guarantee admission, only admissibility.

Basic Requirements for Admission:

The competitive selection process will be based, *inter alia,* on the following criteria:

- Current qualifications – a three-year first degree in Library and Information Science (LIS) and a second degree (65% average pass) in Library and Information Science (LIS) (the so-called Honours degree in South Africa) / a Masters in Library and Information Science degree or equivalent degree from a reputable University SAQA accredited);
- Past academic performance;

- Proficiency in English;
- Work experience, current job description in a library and/or university department teaching Library and Information Science, and responsibilities in the work environment;
- A recommendation letter from the current employer / line manager indicating the commitment that they will make time available for the employee to devote to his / her studies; and
- Internet access.

PLEASE NOTE:

- You have to apply online and pay application fee (currently R300) first before selection will be considered.
- Select MIT ICT Information Science Stream B programme code **12254016** when completing your application.

MIT Stream B Curriculum

The schedule of the program is as follows:

First year of study		
Module title and description	**Schedule**	**Content**
Research data management 15 credits **MIT 885**	Year Module February to November	The module is structured around the following six themes: • Introduction to RDM / Gaining context for RDM – both long tail and big data are considered. • Acts, Policies, Procedures and Guidelines: Establishing RDM at your institution. • RDM Lifecycle - Curator responsibilities. • RDM Lifecycle - Researcher responsibilities. • Tools to clean and visualise research data. • Platforms used to make Research Data accessible.
Institutional repositories and virtual work environments 15 credits **MIT 886**	Year Module February to November	The module is structured around the following six themes: • The open revolution – the movement behind open research, open access, open data, and open innovation. • Digitisation as a method to develop open content collections. • Institutional repositories. • Virtual environments for work, learning and research. • Embeddedness – being relevant in virtual work environments. • Long term preservation of electronic content.
The Knowledge Society and international librarianship in the fourth	First Semester February to June	The module is structured under the following four themes: Theme 1: Globalization, the Knowledge Society, and the 4th Industrial Revolution Theme 2: Comparative and International Librarianship Theme 3: Freedom of Access to Information and Freedom of Expression (FAIFE) in Africa

industrial revolution 10 credits **MIT 887**		Theme 4: Sustainable Development, Equity of Information Access, and the Role of LIS Professional Associations
Information ethics 10 credits **MIT 889**	Second Semester July to November	This module considers the information ethical implications arising from the information lifecycle. Encompassing both practical considerations and moral evaluation, the modules are structured around the following four themes: • Introduction to IE and foundations • Situating context in privacy, accuracy, intellectual property, access and security • Social justice and social responsibility • Application to the work environment
Data, information and knowledge Management 15 credits **MIT 890**	Year Module February to November	MIT 890 aims to introduce students to the fundamental concepts of data, information and knowledge and the relationships between them. These relationships are difficult to define, particularly in the current and ever changing knowledge society. The goal of this module is to provide perspective and understanding of these three concepts, particularly in terms of the management thereof. The module will cover aspects such as Data Management (DM), Information Management (IM) and Knowledge Management (KM); the role of technology in IM and KM; the issues underlying the design and use of KM systems, including KM strategies and governance; the effect of organisational culture on KM strategies; the importance of big data

		and KM in organisations; and development of skills to facilitate insight into the benefits and value a formal KM programme could have for an organisation.
Facilitating information retrieval and information use 15 credits **MIT 891**	Year Module February to November	MIT 891 intends to enable you as managers in library and information services and faculty to explore, plan, and manage opportunities to facilitate information retrieval (IR) and to ensure optimal access to electronic information resources and the usage of information in your specific contexts and with support of the latest information communication technology (ICT) (*or at least noting the latest ICT if you do not have access to these at the time of study*). You should understand how IT can be exploited to facilitate IR and information use to give students, academics, researchers, management and other staff members in a variety of workplaces and communities the best competitive advantage to use information and to improve quality of life. It is also intended that you should have the knowledge and skills to apply modern ICT in order to support academics and research in Africa in a spectrum of information related contexts.
IT Research 10 credits **MIT 892**	First Semester February to June	Basic Research Methodology. By the end of the module the candidate should be able to complete an acceptable research proposal for a M-level, mini-dissertation.
Second year of study		

Mini-Dissertation 90 credits **MIT 880**	Year Project	Mini Dissertation. Individual supervisors will be assigned to the students.

MIT ICT Information Science (formerly known as MIT Stream B) Structure

This is a specialised, **two-year coursework degree** at Masters level in Information Technology (M.IT degree) aimed at LIS professionals at middle management level, an IT centered degree that does not primarily focus on traditional LIS content. A variety of themes from Web 3.0 (and other technologies), to Information Ethics, Institutional Repositories, Knowledge Societies, Information Retrieval, Information Ethics and Knowledge Management are addressed in this degree. The programme is open to students from across the world and will be offered as a blended distance learning education programme. This is a **full-time, self-funded online** degree which requires commitment, planning and support from colleagues and line manager/s. This degree totals 180 credits which is equal to 1800 hours spent towards completion, thus 900 hours per year.

Classes:

The following are compulsory coursework modules in addition to the mini-dissertation:

- Research data management (MIT 885)
- Institutional repositories and virtual work environments (MIT 886)
- The knowledge society and international librarianship in the Fourth Industrial Revolution (MIT 887)
- Information ethics (MIT 889)
- Data, information and knowledge management (MIT 890)
- Facilitating information retrieval and information use (MIT 891)
- IT Research (MIT 892)

There is no face-to-face, physical class attendance. The M.IT degree is only offered **online** in English.

Duration of Course:

The course duration is a minimum of two years.

Conferment of Degree:

The M.IT degree is conferred on a student who successfully completes 180 Credits.

First year - Core Modules (50% of Degree) 90 credits

Second year - Mini Dissertation (50% of Degree) 90 credits

Pass Requirements:

A minimum final mark of 50% has to be obtained in the mini-dissertation as well as in each of the modules of the prescribed course work. For examination entrance a minimum of 40% is required. The Dean may on the recommendation of the admissions committee, cancel the studies of a student who fails more than one module. A module may only be repeated once.

Degree with Distinction:

The degree is conferred with distinction on students who have a weighted average final mark of at least 75% for the course work as well as 75% for the Mini Dissertation.

Fees

- Approximately R20,000.00 per year, i.e. R40,000.00 over two years for students from South Africa and SADC;
- For students not from South Africa or SADC the fee is doubled;
- Non-SA students have to pay an additional R3,000.00 as foreign students;
- If you were to take a third year to complete the degree, you will have to pay a further R20,000.00 (SA and SADC) or R40,000.00 (non-SADC) per additional year.

Please confirm the University's website for the correct fees.

Administrator Contact Details

MIT ICT Information Science (formerly known as MIT Stream B) Administration:

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