Faculty of Engineering, Built Environment and Information Technology

Fakulteit Ingenieurswese, Bou-omgewing en Inligtingtegnologie

School of Information Technology

**MIT Stream A
Brochure 2017**

Last Revision: 6 December 2016

School of Information Technology
Faculty of Engineering, Built Environment and Information Technology
University of Pretoria

MASTER OF INFORMATION TECHNOLOGY (MIT) Stream A: 2017

Contents

PURPOSE

The graduate of the Master's degree in IT will have the knowledge and skills to manage and lead information and information technology-related activities in an organisation in strategic, operational and project environments. This degree provides a broad IT perspective as well as good research and reporting skills. The MIT degree is ideal for a middle management officer in preparation for senior management. Half of the degree is course work and the other half a mini-dissertation.

MIT STREAM A CURRICULUM

Semester 1 (First Year):

MIT 862 (IT Research)   (8 credits)
Research methodologies applicable to the IT field as preparation for the mini-dissertation.
(Compulsory requirement for admission to MIT 840)

MIT 842 (Computer Science in Perspective)   (5 credits)
Introduction to the discipline of Computer Science.

MIT 843 (Information in Perspective)   (5 credits)
Introduction to information organization and retrieval; information ethics.

MIT 860 (ICT Infrastructure Management)   (8 credits)
The course covers various disciplines of IT infrastructure management from the perspective of people, process, and technology. Topics include performance management, network management, and capacity planning.

MIT 835 (Information and Knowledge Management)   (8 credits)
Information and knowledge is regarded as the primary assets of organisations in the knowledge economy. Therefore an overview of information and knowledge management is presented before specific focus is placed on the manner in which technology can enable and support the management of information and knowledge within organisations.

Semester 2 (First Year):

MIT 850 (Life cycle and maturity models for IT)   (8 credits)
The course aims to introduce the fundamental techniques of software engineering, by looking at maturity models, software life-cycles and methods, standards and procedures to assess and measure quality of processes.

MIT 851 (Digital Economy)   (8 credits)
To develop a management perspective of some key concepts and issues pertinent to the digital (or internet) economy.

MIT 852 (ICT Project Management)   (8 credits)
Principles and techniques of project management with specific reference to ICT-projects.

MIT 853 (Corporate IT Systems)   (8 credits)
This module focuses on the problems posed by large systems typically exemplified by integrated IT applications in the corporate sector. Facets covered are the relationships between components in the system (hardware, software, people) and the processes in the system.

MIT 841 (Organisational Behaviour and Management)   (8 credits)
Managing organisational behaviour and organisational learning in an IT-rich
environment.

Semester 3 (Second Year):

MIT 844 (Strategic ICT Management)   (8 credits)
The role of ICT in obtaining competitive advantage; management of ICT to obtain
such advantages.

MIT 864 (ICT Financial Management)   (8 credits)
This course is about IT financial management from the standpoint of the general
manager and senior executive. Topics include IT capital budgeting; required rates of
return for IT investments; the theory of IT finance, including IT policy; financial
analysis and planning; short-, intermediate-, and long-term financing; principles of
valuation and IT governance from a financial standpoint.

MIT 840 (Mini Dissertation)   (90 credits)
The mini-dissertation is an individual report of independent research under the
guidance of a supervisor.

Semester 4 (Second Year):

MIT 840 (Mini dissertation)   (90 credits)
The mini-dissertation is an individual report of independent research under the
guidance of a supervisor.

DEGREE FORMAT

Language:
The MIT degree programme is only offered in English.

Classes:
Classes will be offered once per month on Thursday afternoon and Friday at the
University of Pretoria Hatfield Campus. The timetable for 2017 will be available on
the MIT website (www.up.ac.za/mit). **Class attendance is compulsory**.

Duration of Course:
The course duration is a minimum of two (2) years part-time or full-time study and
must be completed in a maximum of three years.

Conferment of the Degree:
The MIT degree is conferred on a student who successfully completes 180 credits.
Core modules   90 credits
Mini Dissertation (50% of degree)   90 credits

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Pass Requirements:

1. 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

All registration and re-registration initial payments will be R7500 for 2017 registration for current and new students.

*   There is no distinction in tuition fees between part-time and full-time studies.
*   All international students from 2017 need to note the new regulations regarding the initial payment of fees in the section in the brochure for "International Students"
*   Any new first-time postgraduate registrations made after 31 August 2015 will be charged the applicable initial registration fee for that year, (R7 500 in 2017) and the full applicable annual fee for the following year/s.

Annual fee for MIT Stream A is currently R20 000.00 per annum.

Full details: http://www.up.ac.za/fees-and-funding/article/277386/tuition-fees-per-faculty

CONTACT DETAILS

Preferred mode of communication is via e-mail.

MIT Website:
http://www.up.ac.za/en/informatics/article/2075225/postgraduate-mit-stream-a-coursework

MIT Administration:
Mrs Rhona van der Merwe
Email: mit-A@up.ac.za
Telephone: 012 420 6321
Fax: 012 362 5287

MIT Coordinator:
Prof Carina de Villiers
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Telephone: 012 420 3798

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SEMESTER 1

MIT 862 (8)   IT Research
(**Compulsory requirement for admission to MIT840**)

MIT 835 (8)   Information & Knowledge Management

MIT 842 (5)   Computer Science in Perspective

MIT 843 (5)   Information in Perspective

MIT 860 (8)   ICT Infrastructure Management

SEMESTER 2

MIT 850 (8)   Life-cycle & Maturity Models for IT

MIT 851 (8)   Digital Economy

MIT 852 (8)   ICT Project Management

MIT 853 (8)   Corporate IT Systems

MIT 841 (8)   Organisational Behaviour & Management

SEMESTER 3

MIT 844 (8)   Strategic ICT Management

MIT 864 (8)   IT Financial Management

MIT 840 (90)   Mini-dissertation

SEMESTER 4

MIT 840 (90)   Mini-dissertation

180 credits in total

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Stream A Timetable: Dates & Venues 2017

First Year Students – Semester 1 (Dates and times subject to change)

Date	Time	Venue	Module
Thursday 9 February	14:00 – 16:00 16:30 – 19:00	Tswelopele (IT Building 4-64)	MIT843 Information in Perspective MIT862 IT Research
Friday 10 February	08:30 – 10:30 11:00 – 13:30 14:30 – 17:00		MIT842 Computer Science in Perspective MIT860 ICT Infrastructure Management MIT835 Information and Knowledge Management
Thursday 16 March	14:00 – 16:00 16:30 – 19:00	Tswelopele (IT Building 4-64)	MIT843 Information in Perspective MIT862 IT Research
Friday 17 March	08:30 – 10:30 11:00 – 13:30 14:30 – 17:00		MIT842 Computer Science in Perspective MIT860 ICT Infrastructure Management MIT835 Information and Knowledge Management
Thursday 20 April	14:00 – 16:00 16:30 – 19:00	Tswelopele (IT Building 4-64)	MIT843 Information in Perspective MIT862 IT Research
Friday 21 April	08:30 – 10:30 11:00 – 13:30 14:30 – 17:00		MIT842 Computer Science in Perspective MIT860 ICT Infrastructure Management MIT835 Information and Knowledge Management
Thursday 18 May	14:00 – 16:00 16:30 – 19:00	Tswelopele (IT Building 4-64)	MIT843 Information in Perspective MIT862 IT Research
Friday 19 May	08:30 – 10:30 11:00 – 13:30 14:30 – 17:00		MIT842 Computer Science in Perspective MIT860 ICT Infrastructure Management MIT835 Information and Knowledge Management
Mon 5 June	MIT862 Examination Take-home Assignment due		
Mon 12 June	MIT835 Examination Take-home Assignment due		
Mon 19 June	MIT843 Examination Take-home Assignment due		
Mon 26 June	08:00 – 11:00 13:00 – 16:00	CBT Lab CBT Lab	MIT 860 Examination MIT 842 Examination

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First Year Students – Semester 2

Date	Time	Venue	Module
Thursday 27 July	14:00 – 16:30 17:00 – 19:30	IT 5-56	MIT851 Digital Economy MIT852 ICT Project Management
Friday 28 July	08:00 – 10:30 11:00 – 13:30 14:30 – 17:00	Tswelopele (IT Building 4-64)	MIT853 Corporate IT Systems MIT850 Life-cycle and Maturity Models for IT MIT841 Organisational Behaviour & Management
Thursday 24 August	14:00 – 16:30 17:00 – 19:30	IT 5-56	MIT851 Digital Economy MIT852 ICT Project Management
Friday 25 August	08:00 – 10:30 11:00 – 13:30 14:30 – 17:00	Tswelopele (IT Building 4-64)	MIT853 Corporate IT Systems MIT850 Life-cycle and Maturity Models for IT MIT841 Organisational Behaviour & Management
Thursday 21 September	14:00 – 16:30 17:00 – 19:30	IT 5-56	MIT851 Digital Economy MIT852 ICT Project Management
Friday 22 September	08:00 – 10:30 11:00 – 13:30 14:30 – 17:00	Tswelopele (IT Building 4-64)	MIT853 Corporate IT Systems MIT850 Life-cycle and Maturity Models for IT MIT841 Organisational Behaviour & Management
Thursday 19 October	14:00 – 16:30 17:00 – 19:30	IT 5-56	MIT851 Digital Economy MIT852 ICT Project Management
Friday 20 October	08:00 – 10:30 11:00 – 13:30 14:30 – 17:00	Tswelopele (IT Building 4-64)	MIT853 Corporate IT Systems MIT850 Life-cycle and Maturity Models for IT MIT841 Organisational Behaviour & Management
Mon 6 Nov	Submission of MIT 841 Take-home examination assignment		
Mon 13 Nov	08:00 – 11:00 13:00 – 16:00	CBT Lab CBT Lab	MIT852 Examination MIT853 Examination
Mon 20 Nov	08:00 – 11:00 13:00 – 16:00	CBT Lab CBT Lab	MIT850 Examination MIT851 Examination

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Stream A Timetable: Dates & Venues 2017

Second Year Students – Semester 1

Date	Time	Venue	Module
Fri 24 Feb	12:00 – 12:30	IT 5-56	MIT840 Mini-dissertation
	12:30 – 15:00		MIT864 ICT Financial Management
	15:15 – 17:45		MIT844 ICT Strategic Management
Fri 24 March	12:00 – 12:30	IT 5-56	MIT840 Mini-dissertation
	12:30 – 15:00		MIT864 ICT Financial Management
	15:15 – 17:45		MIT844 ICT Strategic Management
Fri 12 May	12:00 – 12:30	IT 5-56	MIT840 Mini-dissertation
	12:30 – 15:00		MIT864 ICT Financial Management
	15:15 – 17:45		MIT844 ICT Strategic Management
Fri 2 June	12:00 – 12:30	IT 5-56	MIT840 Mini-dissertation
	12:30 – 15:00		MIT864 ICT Financial Management
	15:15 – 17:45		MIT844 ICT Strategic Management
Mon 12 June	08:00 – 11:00	CBT Lab	MIT 864 Examination
	13:00 – 16:00	CBT Lab	MIT 844 Examination

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Lecturer Contact Details 2017

General MIT Contact	E-Mail address	Telephone
MIT Programme Coordinator: Prof Carina de Villiers Room 5-78, IT Building	carina.devilliers@up.ac.za	(012) 420 3798
MIT Administration: Mrs Rhona van der Merwe Room 5-78, IT Building	rhona.vandermerwe@up.ac.za	(012) 420 6321
Faculty Administration: Mrs Dawn Taljaard Room 6-17, Engineering Building 1	dawn.taljaard@up.ac.za	(012) 420 4095
Module code	**Lecturer**	**E-Mail address**	**Telephone**

Module code	**Lecturer**	**E-Mail address**	**Telephone**
MIT 835	Marietjie Schutte	Marietjie.schutte@up.ac.za	012 420 2963
MIT 840	Prof Carina de Villiers	carina.devilliers@up.ac.za	012 420 3798
MIT 841	Joan de Beer	joanfdebeer@gmail.com	012 420 6321 (Rhona)
MIT 842	Prof Martin Olivier	molivier@cs.up.ac.za	
MIT 843	Prof Ina Fourie	Ina.fourie@up.ac.za	012 420 5216
MIT 844	Prof Awie Leonard	Awie.leonard@up.ac.za	012 420 3798
MIT 850	Dr Tendani Mawela	Tendani.mawela@up.ac.za	012 420 3372
MIT 851	Dr Marita Turpin	Marita.turpin@up.ac.za	012 420 3798
MIT 852	Dr Awie Leonard	Awie.leonard@up.ac.za	012 420 3798
MIT 853	Dr Rennie Naidoo	Rennie.naidoo@up.ac.za	012 420 3351
MIT 860	Dr Patricia Lutu	plutu@cs.up.ac.za	012 420 4116
MIT 862	Prof Carina de Villiers	carina.devilliers@up.ac.za	012 420 3798
MIT 864	Dr Rennie Naidoo	Rennie.naidoo@up.ac.za	012 420 3798

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Prescribed Books for MIT Stream A 2017

Module	Module title	Book details
MIT835	Information and Knowledge Management	"The new edge in knowledge" by Carla O'Dell and Cindy Hubert, 2011, Hoboken, NJ: Wiley & Sons. ISBN 978-0-470-91739-8 Also available as an e-book
MIT862 & MIT840	IT Research Mini-Dissertation	Notes and recommended books
MIT841	Organisational Behaviour and Management	"Organisational Behaviour – A contemporary South African Perspective" by Amanda Werner (Ed), 4th edition 2017, Van Schaik Publishers. ISBN 978-0-627-034176
MIT842	Computer Science in Perspective	Own notes and readings
MIT843	Information in Perspective	"Big Data: A revolution that will transform how we live, work and think" by Viktor Mayer-Schonberger and Kenneth Cukier, 2013, Houghton Mifflin Harcourt Publishers, New York ISBN 978-0-544-002692
MIT844	Strategic ICT Management	"Managing and Using Information Systems", 5th Edition. Pearlson, K.E and Saunders, C.S, 2010. John Wiley & Sons, Inc. ISBN: 978-0-470-34381-4 Note: International student version of the same book has title "Strategic Management of Information Systems"
MIT850	Life Cycle and Maturity Models for IT	Own notes and readings
MIT851	Digital Economy	Own notes and readings
MIT852	ICT Project Management	Information Technology Project Management by Kathy Schwalbe, 7th Edition ISBN-13: 978-1285847092 ISBN-10: 1285847091
MIT853	Corporate IT Systems	Lecture notes plus selected readings
MIT860	ICT Infrastructure Management	"IT Systems Management", by Rich Schiesser, 2nd edition (2010), Prentice Hall ISBN 0137025068
MIT864	IT Financial Management	IT Investment: Making a Business Case (Computer Weekly Professional Series) by Dan Remenyi and Michael Sherwood-Smith. ISBN-13: 978-0750645041 ISBN-10: 0750645040

These books can be obtained from the campus shop Bookmark on the Hatfield campus.

AVOIDING PLAGIARISM: A GUIDE FOR STUDENTS

You commit plagiarism when in any written work you use another person's words, ideas or opinions without acknowledging them as being from that other person. You do this when you copy the work word-by-word (verbatim); or submit someone else's work in a slightly altered form (such as changing a word with one meaning to another word with the same meaning); and you do not acknowledge the borrowing in a way that shows from whom or where you took the words, ideas or reasoning.

You must provide references whenever you quote (use the exact words), paraphrase (use the ideas of another person, in your own words) or summarise (use the main points of another's opinions, theories or data).

It does not matter how much of the other person's work you use (whether it is one sentence or a whole paragraph), or whether you do it unintentionally or on purpose. If you present the work as you own without acknowledging that person, you are committing theft. Because of this, plagiarism is regarded as a very serious contravention of the University's rules which can lead to expulsion from the University.

Even if another student gives you permission to use one of his or her past assignments or other research to hand in as you own, you are not allowed to do it. It is another form of plagiarism. You are also not allowed to let anybody copy your work with the intention of passing it off as his/her work.

While academic staff must teach you about systems of referencing, and how to avoid plagiarism, you too need to take responsibility for your own academic career. Speak to your lecturer if you are at any stage uncertain as to what is required.

You are referred to http://www.ais.up.ac.za/plagiarism/index.htm for more information.

The university uses a program which detects any use of plagiarism, namely Turnitin (http://turnitin.com/static/home.html). Lecturers have the right to submit any piece of work, submitted for assessment, to this program.

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E-MAIL ADDRESS POLICY

It is the policy of the University of Pretoria to supply all students who study at the University with an e-mail address for life.

The official communication medium with students of the University is via the web interface *Student Online Services* (SOS). This is accessible through the University's Homepage.

Every student is therefore supplied with a unique "life-long" standard e-mail address. The format of this standard e-mail address is:
unumber@tuks.co.za

Every year during registration a student had the opportunity to save an alternative "forwarding" e-mail address to which the student's e-mail can be sent. This e-mail address will then be set up as the "forwarding" address.

Should the student want to change the e-mail address after registration it can be changed on *Student Online Services* (SOS).

You are therefore encouraged to change and/or correct your e-mail address personally on *Student Online Services* as and when necessary. The Faculty Administration no longer has access to make changes to a student's email after registration.

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PARKING INFORMATION

Due to parking constraints all **Masters and Honours students** will only be allowed **parking after 14:00** for which they may **apply via the online parking system on the Student Web**. All undergraduate students may park on Hatfield Campus **only** from 16:30. Undergraduate students studying on the satellite campuses may park on these campus grounds for 24 hours after obtaining a parking disc for the specific campus (Mamelodi, Medical, Onderstepoort, Groenkloof).

Students may park on the official student parking areas of the University, i.e:
* Corners of **Burnett and Festival Streets** (H17)
* Corners of **Herold and Duxbury Streets** (H29)
* Corners of **Herold and Lynnwood Road** (H30)

These are safe enclosed areas with a UP security guard. Students must show their student card upon entry. This parking works on first come first serve basis and there is no allocated parking. There are also no fees payable.

Park-and Ride facility:

* The park-and-ride facility is available for use to staff and students.
* Security guards will be on duty to facilitate parking.
* Staff and students must show a valid staff/student card on request.
* The Park-and-Ride facility is free of charge.
* The service will be monitored and formally evaluated every three months to determine its continuation and or adjustment.
* A time table and route indicator will be visible in each bus.

Between the Hatfield campus and LC de Villiers Sports Complex:

* The parking area to be used is right next to the Daan Swiegers Building on LC De Villiers which is south of the rugby stadium.
* **From LC de Villiers:** A bus will depart every 15 minutes from 06:45 to 17:45.
* **On Campus:** The bus will stop at the Graduate Centre to upload or download passengers.
* **From Hatfield campus [Graduate Centre]:** A bus departs every 15 minutes from 07:00 to 17:45.

Only registered Honours and Masters students can park after 14:00 on Hatfield Campus, after obtaining a parking disc.