School of Information Technology
Department of Informatics

Honours BCom Informatics
Honours BIT Information Systems

Brochure
2020
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1 Subject to change.
GENERAL INFORMATION

1. During the first and second semester students have classes on eight Fridays from 07:30 to 17:30.
2. In total there are nine 90 minutes contact sessions with lecturers over 8 Fridays per semester. Class attendance is compulsory.
3. INF780 (Research paper) is compulsory.
5. More information regarding modules can be found on the following website: https://www.up.ac.za/informatics
6. Each module carries 15 credits, with the exception being the research paper which carries 30 credits. Overall a minimum of 120 module credits must be obtained. The NQF level for Hons BCom (Informatics) and Hons BIT (Information Systems) is 8.
7. You need to register for a total of 7 modules of which INF780 is one. Electives: Choose 6 electives from the list OR 5 electives from the list + 1 from another department OR 4 electives from the list + 2 from other departments (e.g. the departments of the School of Information Technology or the Faculty of Economic and Management Sciences). OBS784 may not be presented for degree purposes.
8. Pre-requisite for admission to the degree is a Bachelor’s degree in Information Technology/Informatics/Information Systems with an average mark of at least 60% for the Information Technology/Informatics/Information Systems modules at third-year level.
9. A student with an IT degree other than BCom (e.g. BSc(IT), BIS, BSc(IS)), who meets the requirement of 60% average for his/her IT majors, will be considered for the BIT(IS) Honours degree.
10. Students who wish to register for the BCom Hons (Informatics) must take note that the Faculty of Economic and Management Sciences requires students who register in this Faculty to have a basic academic background in Accounting, Business Management, Economics and Statistics. Students who did not do these subjects on first year level should rather apply for the BIT Hons (IS).
11. Please note that your semester mark may not be lower than 40% for you to be admitted to the exam. There is also a sub-minimum of 40% on the exam mark in order to pass. Your final mark should be at least 50% in order to pass the module. No supplementary exams or aegrotats will be granted.

REGISTRATION INFORMATION

1. After your application has been approved you will receive an Official Admissions letter by e-mail (This letter will also be available on your Student Portal – Student Centre - Communication)
2. You first have to pay the registration fee before you can register (use your student number as reference). After this, a contract will be available on the student portal (online contract – complete the form – download). The signed original contract must be handed in at the Student Service Centre or courier it to the University.
3. Registration: Online only, from the 2nd of January 2020 (www.up.ac.za/online-registration)
4. Your will be able to complete the registration process within 24 hours after you have paid the registration fee. Download the student contract and hand the original copy in at the Student Service Centre. For access to campus bring a printout of the “Proof of registration” and obtain you student card at the Student Service Centre.
5. Any registration problems e.g. financial unsuitable, hold, change of modules, must be directed to Faculty Administration.

Important contact information:

Faculty Administrative officer of the BCom Hons (INF)
MS LERATO KRAPPIE
Office: EMS Building, Room, 1-12, Telephone: 012 420 5387
E-mail: lerato.krappie@up.ac.za
Honours Brochure 2020

**Faculty Administrative officer of the B.IT Hons (IS)**

**MS LAURRINE (SIBONGILE) MGIBA**

Office: ENG 1 Building, Room 6-15, Telephone: 012 420 5316
E-mail: laurrine.mgiba@up.ac.za

**Departmental administrative officer:**

Mrs Rhona van der Merwe
Office: IT Building, room 5-78, Telephone: 012 420 6321
rhona.vandermerwe@up.ac.za

**International queries & “hold”:**

Mrs Jenny Lambinon – jenny.lambinon@up.ac.za
Mrs Wiida le Roux – wiida.leroux@up.ac.za

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**Study fees**

The estimated fee for the honours degree for **2020** is between R26 380 and R34 560 depending on which electives are chosen. More information on study fees can be found at [https://www.up.ac.za/article/2749200/fees-and-funding](https://www.up.ac.za/article/2749200/fees-and-funding)

**Fees enquiries:**

Mrs Sophy Seefane – sophy.seefane@up.ac.za
Mr Frans Mothogoane – frans.mothogoane@up.ac.za
Ms Komane Lehong – komane.lehong@up.ac.za

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**Deregister and/or adding of subjects**

Deregister and/or adding of subjects must be done at Faculty Administration. Please keep in mind that it must be done within 2 weeks after the semester had started.

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**SYLLABI**

The Honours modules presented below are also presented to two other qualifications: the Postgraduate Diploma in Digital Innovation and the B.IT (a four year undergraduate programme). Throughout this document we present the three different codes. The first code is the one applicable to the BCom Honours/ BIT honours (IS) degree, the second to the PGD in DI and the last to the B.IT degree. In some cases only two codes are given but the first still refers to the Honours degree.

**INF713/INF700/INF413 Capita Selecta – Disruptive Technology**

In this module students will be introduced to Digital Disruption. The module will include topics such as the nature and unique characteristics of Digital Disruption, the identification of disruptors and the impact thereof on existing business models, as well as mechanisms to harness the opportunities and mediate the risks provided by Digital Disruption.

**INF715/INF415 Enterprise architecture**

Enterprise Architecture (EA) involves comprehensive business frameworks that capture the complexity of modern organizations, providing a blue-print for co-ordinating and integrating all components of an organization. The module will illustrate all the aspects of EA, discuss the need for EA as well as various frameworks, methods and techniques of EA.
**INF716/INF707/INF416  Capita Selecta - ICT4D**

To be announced

**INF780/INF702 Research paper (compulsory)**

A research paper on a topic from the field of Informatics

**INF785/INF485 Data Warehousing**

The purpose of this module is to introduce students to the concepts of data warehousing and business intelligence within a business environment. The term business intelligence or BI refers to a class of applications and technologies used to gather, provide access to, and analyse data about business operations. Business intelligence systems enable businesses to have a more in-depth knowledge of customer behaviour, and other factors affecting their business, such as metrics on sales, production and internal operations. This knowledge helps managers to make better business decisions. A data warehouse is a core requirement for BI. Online analytical processing (OLAP) tools and data mining tools are used to provide different types of information from a data warehouse. For this module, the main emphasis will be on data warehousing and OLAP.

**INF787/INF705/INF487 Management of ICT Projects**

Main emphasis will be on IS project management using a case study to get practical experience in project management.

**INF788/INF488 Information Systems Development**

Study and evaluation of different systems development methodologies

**INF790/INF703/INF490 Human Computer Interaction (HCI)**

Dramatic advances in technology have revolutionized the way that people interact with computers. This module focuses on the design and evaluation of user interfaces. Discussions will include both traditional computer systems and web-based systems.

**INF791/ INF491 Applied Data Science**

In this information age a lot of data is captured every day and recorded in databases, but the wealth of this data is kept locked in the databases because relatively little mining is performed on this data. This module introduces you to data mining in terms of:

- The data mining process - how do you mine data?
- The data mining techniques - an overview of the data mining techniques that can be used
- Practical data mining experience - a practical project mining real industry data to find unknown patterns
- Product overviews - product demonstrations by data mining vendors

**INF794/INF706/INF494 Management of Information Systems**

To be announced

**KUB780 IT Law**

Introduction to the study of cyber law

- The place of cyber law in the legal system
- The nature and scope of cyber law
- Sources of cyber law
- Inception and influence of the Internet

Regulation of the Internet
Honours Brochure 2020

- National/international
- Jurisdiction

Aspects of intellectual property law and the Internet
- E-commerce activities and the Internet
- Aspects of jurisdiction and signing of contracts
- Data protection and encryption
- Liability of Internet service providers

Advertising and the Internet
- Criminal liability in cyber space
- Constitutional aspects in cyber space
- The right to privacy/freedom of expression/information

Prerequisite: KRG 110 or BER 210 or BER 310 or BER 410 (passed with at least 50%).

LECTURERS’ DETAILS

First Semester

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<td>Researching Information Systems and Computing</td>
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<td>9780470462072</td>
<td>Data Warehousing Fundamentals for IT Professionals : A Comprehensive Guide for IT Professionals</td>
<td>Ponniah, Paulraj</td>
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<td>Recommended</td>
<td>9780471255475</td>
<td>The Data Warehouse Lifecycle Toolkit: Tools and Techniques for Designing, Developing and Deploying Data Marts and Data Warehouses</td>
<td>Kimball,Ralph; Reeves, Laura; Ross Margy; Thornthwaite Warren</td>
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<td>9781312665989</td>
<td>Modern ERP: Select, Implement, and Use Today’s Advanced Business Systems</td>
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<td>9780077114176</td>
<td>Information Systems Development: Methodologies, Techniques and Tools</td>
<td>Avison, David; Fitzgerald, G</td>
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**PREScribed BOOKs**

Text books will be announced on ClickUP.
### DATES AND VENUES: FIRST SEMESTER

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**INDUSTRY MEETING**

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**KUB780 IT Law** will be presented by the Department of Mercantile Law in the Faculty of Law. Contact: Sylvia Papadopoulos

E-mail: sylvia.papadopoulos@up.ac.za  
Tel: (012) 420 3859

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### EXAM DATES AND VENUES

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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 a life-long e-mail address.

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 supplied with a unique “life-long” standard e-mail address. The format of this standard e-mail address is:

snumber@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.

**IMPORTANT INFORMATION AND WEB ADDRESSES**

**Special exams:** There are NO aegrotats or supplementary examinations on postgraduate level. Students who miss a module test or exam will have to repeat the whole module.

Please contact the Student Services Centre at ssc@up.ac.za (e-mail) for information regarding fees and bursaries, and/or visit https://www.up.ac.za/informatics

Please consult the following websites for general information and for information on the correct application procedure.

Details about M.IT and other IT programmes in the School of IT:

https://www.up.ac.za/school-of-information-technology

or Mr Kenneth Nkanyana (Kenneth.nkanyana@up.ac.za).

International students should consult UP’s website for additional information:

https://www.up.ac.za/international-cooperation-division

International students have to provide proof of SAQA accreditation, and either TOEFL/IELTS results:

SAQA: www.saqa.org.za

TOEFL (Test of English as a foreign language): www.ets.org/toefl

IELTS (International English Language Testing System): www.ielts.org

**PLAGIARISM**
The Merriam Webster dictionary defines plagiarism as:

```
to steal and pass off (the ideas or words of another) as one's own : use (another's production) without crediting the source
to commit literary theft : present as new and original an idea or product derived from an existing source
```

http://www.m-w.com/ [Accessed 03 September 2002]

The Encyclopædia Britannica defines plagiarism as:

```
the act of taking the writings of another person and passing them off as one's own.
The fraudulence is closely related to forgery and piracy—practices generally in violation of copyright laws.
```


- Plagiarism is illegal and you can be expelled from the university if you plagiarise.
- With all information available on the World Wide Web, it is probably very tempting to cut and paste parts of articles for assignments and so on, but remember that this is illegal and that the lecturers can find the sites very easily themselves.

**How to avoid plagiarism:**

There are a number of sites on the World Wide Web that deal with issues around plagiarism:

- Plagiarism: What It is and How to Recognize and Avoid It http://www.indiana.edu/~wts/wts/plagiarism.html
- Avoiding Plagiarism http://sja.ucdavis.edu/avoid.htm#mexamples

**You may use material written by other people, but then the thing to do is to cite the material:**

Guide to Citation Style Guides http://bailiwick.lib.uiowa.edu/journalism/cite.html

CITATION STYLES, PLAGIARISM & STYLE MANUALS http://www.lib.berkeley.edu/TeachingLib/Guides/Citations.html

**Harvard Style:**

References/Bibliography HARVARD STYLE http://www.library.up.ac.za/referencing/index.htm

**Avoiding plagiarism: A guide for students**

**What is plagiarism?**

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 your 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 your 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.

Information brochures on this topic are also available at the Library:

http://www.library.up.ac.za/plagiarism/index.htm
## Department of Informatics

### INDIVIDUAL ASSIGNMENT

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Declaration: I declare that this assignment, submitted by me, is my own work and that I have referenced all the sources that I have used.

| Signature of Student     |                      |

### MARK

| Comments                 |                      |


## Department of Informatics

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Signature of Leader

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