



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

Department of Information Science

Last revision: 14 February 2022

© Copyright reserved

School of Information Technology

Department of Information Science

B.IS HONS (Information Science)

Information Brochure

2022

ALL CLASSES FOR 2022 AND ALL ASSESSMENT WILL BE ONLINE

B.IS (HONS) Information Science

Welcome

A sincere welcome is extended to all students who have registered for the Information Science Honours degree in the Department of Information Science. We trust that you will be successful in your studies this year.

The Honours modules offered by the department are aimed at stimulating your personal subject interest and speciality. You must therefore use this opportunity to read prescribed and other literature critically, to participate spontaneously in class discussions that form an integral part of the various courses, and to develop your research capacity. You will also have the opportunity of individual meetings and discussions with your lecturers. We trust that you will be equipped with the competencies that you need to ensure a successful future career in the area of Information Science: in practice, as researcher and as practitioner researcher.

Statement on Anti-Discrimination

The University of Pretoria is committed to building an inclusive, affirming and transformed institutional culture, curriculum and campus life. It rejects and condemns racism, sexism, homophobia, transphobia, xenophobia, ethnic chauvinism, religious intolerance, unfair discrimination, hate speech, sexual harassment, gender-based violence and retaliation, and all other forms of discrimination. The University has committed itself to the eradication of these practices, and in 2019 adopted an Anti-Discrimination Policy, in order to realise procedural and substantive equality in all respects.

As the lecturer and presenter of this course, I acknowledge the extreme harm that racism, sexism, xenophobia and other forms of discrimination have inflicted and continue to inflict on our society and communities. I commit to ensuring that there is an open dialogue between myself and all the students in the module on curriculum content and teaching method which may be interpreted as discriminatory or exclusive. I undertake to ensure that any such concerns are raised without fear of intimidation or recrimination. Moreover, I resolve to continuously improve the teaching of this course in a way that allows the inclusion of all the students enrolled for this course, building their self-confidence and self-efficacy, and supporting the ultimate goal of substantive equality for all persons.

The choices that we make about curriculum content and pedagogy (what and how we teach) are also choices about what kind of society we wish to build. In this declaration of intent, I resolve to be part of and give substance to the University's anti-discrimination and transformation endeavours.

Please check our departmental website regularly for information about who we are, what we are doing and new initiatives: www.up.ac.za/information-science

Contact detail

Please note: Please consult via email, or make an appointment for a virtual meeting

Responsibility	Name	E-mail
Head of Department	Fourie, Ina (Prof)	ina.fourie@up.ac.za
Secretary	Ramosoeu, Nthabiseng	
Programme coordinator	Fourie, Ina (Prof)	ina.fourie@up.ac.za
Responsibility	Module coordinator	E-mail
INY 711	Le Roux, Beth (Prof)	beth.leroux@up.ac.za
INY 713	Dr Paul Laughton (with internal and external lecturers)	paul.laughton@up.ac.za

INY 714	Parbhoo-Ebrahim, Naailah (Mrs) Dr Madely du Preez (with internal and external lecturers)	naailah.parbhoo@up.ac.za madely@dupre.co.za
INY 715	Holmner, Marlene (Prof)	marlene.holmner@up.ac.za
INY 716	Meyer, Anika (Ms) (with internal and external lecturers)	anika.meyer@up.ac.za
INY 717	Ball, Liezl (Dr) (with input from Ms Kyla Yelverton)	liezl.ball@up.ac.za
INY 722 & INY 734	Dick, Archie (Prof)	archie.dick@up.ac.za
INY 726	Maungwa, Tumelo (Mr)	Tumelo.sebata@up.ac.za
INY 727	Cruywagen, Albert (Mr) (external lecturer)	albert@quantum3.co.za
INY 730	Fourie, Ina Prof	ina.fourie@up.ac.za

UP library contact person for Department of Information Science

Please get in touch with **Ms Bulelwa Mandubu** if you have any problems in using the UP library or the products to which the library subscribes such as databases. It is not her duty to do the searches for you, but she can advise you on how to go about. Her contact detail:

Ms Bulelwa Mandubu

Merensky Library, Level 5, Room 5-35

Tel: +27 (0)12 420 4922/2266

Email: bulelwa.mandubu@up.ac.za

Approach to the Honours modules

The Honours modules aim to provide you with the opportunity to develop critical thinking skills, whilst at the same time bridging the gap between undergraduate and postgraduate study. The focus is not only on gaining subject knowledge, but also on research techniques. In this way a sound basis is developed for further studies on Masters and Doctoral levels.

Departmental policies

All departments are bound by general regulations concerning matters such as lecture timetables, examinations and so forth. It is important to emphasise that the aspects highlighted below in no way replace, amend or invalidate other applicable regulations of the University of Pretoria.

Class attendance and participation in discussions

Due to Covid-19 classes will be conducted virtually. Students are expected to attend all scheduled meetings for the Honours modules. There is usually a direct correlation between regular attendance and student performance. Students who do not attend lectures penalise themselves. To prevent this, attendance is monitored regularly and students who are absent from meetings without making prior arrangements with the lecturer may be penalised especially if there are virtual-in-class assessment. We will also adhere to general University guidelines that may be set in this regard.

Internet and ClickUP

Students must have access to the Internet and e-mail facilities, as correspondence and notices, as well as assignments, etc. will take place via e-mail, ClickUP or other web-based tools/resources. To access module content via ClickUP you need to be registered for the module. If you are not familiar with the use of ClickUP please contact the course coordinator so that we can provide you with explanatory notes.

Consulting hours

The importance of students making use of the opportunity to discuss study problems with lecturers cannot be over-emphasised. Please consult via email, or make an appointment for a virtual meeting.

Lectures and discussions

Eight meetings of two and a half hours each per module have been scheduled for every semester. The module co-ordinators will provide you with the subjects and topics for discussion at the beginning of each individual module.

Assignments

Assignments are regarded as a very important part of the teaching programme, because this affords students the opportunity to do research independently. Students may be expected to complete short assignments covering relevant topics during the course of the semester in the various modules. **All assignments must be submitted on the date specified.** Marks can be deducted for late submissions and **it may happen that assignments that are more than two weeks late are not marked.** Although not applying to all assignment types, it is a requirement that you submit all essay type assignments electronically so that it can be run against plagiarism detection software, Turnitin. (The module coordinator/lecturer will inform you about the requirements to submit against Turnitin.) **All research reports for Module INY734 must also be submitted to Turnitin. Please note that if plagiarism is detected, steps will be taken.**

Students could be suspended from the module / honours programme, and there might even be further disciplinary action.

Research report

A research report on an approved topic chosen from one of the modules you are taking must be completed by the end of this year (full-time students), or the end of your second study year (part-time students), whichever is applicable. An electronic copy of the report must be submitted. More detail is provided in module INY 734. The research report is a very important component of your honours studies; it counts twice the credits of other modules and requires your full attention.

Plagiarism – when doing assignments or writing the research report

Quoting or using sources without giving credit to the original authors constitute an act of PLAGIARISM. Steps will be taken against students found guilty of such misconduct; they could be suspended from the module / honours programme, and there might even be further disciplinary action.

For every assignment that is handed in and for the research report, students will be expected to sign a declaration stating that the contents of the assignment/report are his/her own work and that recognition has been given to all sources consulted. Such a form is available on ClickUP.

Examinations

Students could be refused admission to examinations on the grounds of poor virtual class attendance and/or failure to obtain the minimum semester mark of **40%** as set by the Department. We do not have supplementary examinations in Honours. In exceptional cases it might be allowed with special permission. Students who are, for some reason or another, not able to write the examination in a specific module on the appointed day, must therefore immediately contact the module coordinator and the Head of the Department, to check if other arrangements might be made for a special examination. Proof of reason for absence such as a valid medical certificate has to be handed to the module coordinator.

Examinations for **first semester** modules are in **July**, and for the **second semester** in **November/December**.

Students have to obtain a **semester mark** of at least **40%** in each individual module to be admitted to the examination. Students have to obtain a **final mark** of at least **50%** in each individual module to pass the examination in that module. Please take note that there are **no supplementary examinations** on Honours level.

If you wish to continue with Masters' study please check the minimum required average mark for your honours modules. You can find detail at: <http://www.up.ac.za/information-science/article/1913990/mis-research>

Calculation of marks for each module

For **each individual** module: Semester mark 50% + Examination mark 50% = Final mark 100%

For the **final mark** for the honours degree: The six semester modules carry equal weights (6 x 1/8) in the calculation of the final mark. **The research report which is a year course carries a weight of 2/8.**

Degree with distinction

The BIS Hons Information Science degree is awarded with distinction to a candidate who obtains a weighted average of at least 75% in all the prescribed modules and did not fail any module.

Duration of the course

Students can either complete their studies within one or two years. We strongly advise against full-time study and full-time work.

One year full-time study

All modules have to be completed within one academic year. Your Research Report, INY 734, also has to be completed by the end of that year of your registration.

Two years part-time study

The modules can be taken over two years. The Research Methodology, INY 711, has to be completed in the first year of study and the Research Report only in the second year. You can, however, also complete the report in your first year of study. For two years part-time studies we suggest the following:

Year	Semester 1	Semester 2
First year of study	INY 711 INY 713	INY 714 Elective
Second year of study	INY 734 Elective	INY 734 Elective

Detail on the due-date for the Research Report is provided in module INY 734.

DETAIL ON THE MODULES, COORDINATORS, CREDITS AND SEMESTER IN WHICH PRESENTED

BIS(HONS) with specialisation in INFORMATION SCIENCE **BIS(Hons) Information Science (Code 12240003)**

Package organiser:

Prof Ina Fourie, IT 6-73, Tel: +27 12 420 5216, email: ina.fourie@up.ac.za

Admission requirements:

- BIS specialising in Information Science, Information and Knowledge Management, Library Science or an equivalent degree.
- A minimum average of 60% in the undergraduate studies.

Fundamental modules (45 credits)

Code		Co-ordinator	Credits	Semester
INY 711	Research methodology	Prof Beth le Roux beth.leroux@up.ac.za	15	1
INY 734	Research report (closed module) (can only be taken by students registered for the BIS degree)	Prof Archie Dick archie.dick@up.ac.za	30	Year

Core modules (30 credits)

Code		Co-ordinator	Credits	Semester
INY 713	Information and knowledge management (I)	Dr Paul Laughton paul.laughton@up.co.za	15	1
INY 714	Information behaviour, retrieval and organisation	Ms Naailah Parbhoo-Ebrahim naailahparbhoo@up.ac.za Dr Madely du Preez madely@dupre.co.za	15	2

Elective modules (45 credits)

Select **any three modules** of the following in collaboration with the package organiser.
(A maximum of two modules may also be selected from the other departments in the School of IT.)

Semester 1

Code		Co-ordinator	Credits	Semester
INY 717	Data management	Dr Liezl Ball liezl.ball@up.ac.za	15	1
INY 722	Fourth industrial revolution	Prof Archie Dick archie.dick@up.ac.za	15	1
INY 726	Competitive intelligence (I)	Mr Tumelo Maungwa tumelo.sebata@up.ac.za	15	1
INY 730	Information Communication	Prof Ina Fourie ina.fourie@up.ac.za	15	1

Semester 2

Code		Co-ordinator	Credits	Semester
INY 715	Information ethics	Prof Marlene Holmner marlene.holmner@up.ac.za	15	2
INY 716	Information and knowledge management (II) (Prerequisite: INY 713)	Ms Anika Meyer anika.meyer@up.ac.za	15	2
INY 727	Competitive intelligence (II) (Prerequisite: INY 726)	Mr Albert Cruywagen albert@quantum3.co.za (external lecturer)	15	2

Description of Modules offered

Fundamental modules

Code		Credits			Semester
INY 711	Information Science	15			Sem 1
Research Methodology 711 Research methodology and the application thereof to resolve research problems and to create new knowledge, is a valued advantage to any student. The module is compiled with the following objectives in mind: to instruct students in the basic principles of research and to avail them the opportunity to execute research projects in a professional manner. Students are guided from the selection of a problem to the presentation of a complete research report with practical suggestions based on a solid theoretical framework.					
Code		Credits			Semester
INY 734	Information Science	30			Year
Research Report 734 <i>*Closed module (can only be taken by students registered for the degree, i.e. Hons degree in Information Science)</i> Students are expected to write a research report or a research article (More detail in the study guide for Module INY 734).					

Core modules

Code		Credits			Semester
INY 713	Information Science	15			Sem 1
Information and Knowledge Management (I) 713 This module consists of two main sections. A theoretical framework of information and knowledge management will be addressed in section one. Section two covers the enablers of information and knowledge management. These include: leadership, corporate culture, organisational learning, strategy, laws and policies, measurement and information technology.					
INY 714	Information Science	15			Sem 2
Information behaviour, retrieval and organisation 714 In any context, understanding of information behaviour (i.e. information activities such as information seeking, retrieval, sharing and avoidance) is essential in the design and evaluation of information retrieval and organisation systems. This includes individual and collaborative information behaviour. Traditional and contemporary theories, models and practices of information behaviour, information retrieval and information organisation are considered in a variety of contexts reflecting contemporary interest.					

Elective modules (any three)

Semester 1

Code		Credits			Semester
INY 717	Information Science	15			Sem 1
Data Management 717 The prevalence of data in almost all aspects of today's knowledge economy requires that graduates develop specific advanced competencies and skills related to the management of data and research data. The Fourth Industrial Revolution requires well managed data of reliable quality. This module addresses topics such as big data and long tail data, data life cycles, FAIR data, data curation, data quality, data visualisation, international data management standards, legal implications, citizen science, and other related issues. The re-use of data for knowledge creation, data citation as well as the storage and long-term preservation of data and research content in repositories, will also be addressed.					

Code		Credits			Semester
INY 722	Information Science	15			Sem 1
Fourth Industrial Revolution 722					
This module evaluates the evolution of previous industrial revolutions to the fourth industrial revolution. It compares and critiques the fourth industrial revolution in the light of concepts of the information and knowledge societies, and examines relevant themes in the literature. It also discusses the implications for knowledge workers.					
INY 726	Information Science	15			Sem 1
Competitive Intelligence (I) 726					
This module focuses on the theory and practice of Competitive Intelligence (CI) as a strategic tool in the workplace by examining competitive intelligence as a product, process and organisation.					
INY 730	Information Science	15			Sem 1
Information Communication 730					
Informed by the participatory approach to communication this module reflects in depth on methods for the effective communication of information. In order to achieve this, the nature of information within the context of Information Science will be investigated. Thereafter, communication media will be identified and discussed and students will learn how to create a target audience profile to determine the appropriate media and content for the dissemination of information. Information and communication technologies (ICTs) and the communication of information will be investigated along with multiliteracy and media literacy. The communication of information will form a central focus of this module. Therefore, the role of traditional, interpersonal, as well as modern media will be addressed. The processes of creating meaningful and effective messages for the communication of information as well as intercultural communication will also be undertaken.					

Semester 2

Code		Credits			Semester
INY 715	Information Science	15			Sem 2
Information Ethics 715					
This module focuses on the main moral ethical issues pertaining to information and ICT, globalisation, privacy and knowledge flow. It covers amongst others the following fields: information and computer ethics; cyber warfare and terrorism; information philosophy; information security; privacy and the right to information; digital identity management; cyber law; e-waste; globalisation and the impact on society.					
INY 716	Information Science	15			Sem 2
Information and Knowledge Management (II) 716					
This module offers students the opportunity to become conversant with various knowledge management programmes as well as the development, implementation and evaluation of knowledge management strategies. It introduces students to traditional and advanced knowledge management models and frameworks, a selection of knowledge management theories, knowledge management's resiliency management role, and trending issues in the field of knowledge management. (Prerequisite: INY 713)					
INY 727	Information Science	15			Sem 2
Competitive Intelligence (II) 727					
The module focuses specifically on the theory and practice of (competitive) Intelligence Analysis and a variety of aspects and techniques from related disciplines which apply to intelligence analysis. The module exposes students to new (intellectually challenging) and useful methods for conducting intelligence analysis as embedded in relevant theory and practices. (Prerequisite: INY 726)					

TIME TABLE: BIS (HONS) INFORMATION SCIENCE FOR 2022

Virtual lectures are scheduled from 17:30 to 20:00

INY 711 Research Methodology

Feb	21	Mon	Prof Le Roux (1)	
March	7	Mon	Prof Le Roux (2)	
March	22	Tue	Prof Le Roux (3)	(Please note different day)
April	4	Mon	Prof Le Roux (4)	
April	25	Mon	Prof Le Roux (5)	
May	9	Mon	Prof Le Roux (6)	
May	23	Mon	Prof Le Roux (7)	
June	6	Mon	Prof Le Roux (8)	
June	13	Mon	Prof Le Roux	EXAM

INY 713 Information and Knowledge Management (I)

Feb	28	Mon	Dr Laughton (1)	
March	14	Mon	Dr Laughton (2)	
March	28	Mon	Dr Laughton (3)	
April	11	Mon	Dr Laughton (4)	
May	3	Tue	Dr Laughton (5)	(Please note different day)
May	16	Mon	Dr Laughton (6)	
May	30	Mon	Dr Laughton (7)	
June	7	Tue	Dr Laughton (8)	(Please note different day)
June	27	Mon	Dr Laughton	EXAM

INY 714 Information behavior, retrieval and organization

July	25	Mon	Mrs Parbhoo-Ebrahim 1	
Aug	15	Mon	Mrs Parbhoo-Ebrahim 2	
Aug	22	Mon	Mrs Parbhoo-Ebrahim 3	
Sep	5	Mon	Mrs Parbhoo-Ebrahim 4	
Sep	26	Mon	Mrs Parbhoo-Ebrahim 5	
Oct	10	Mon	Mrs Parbhoo-Ebrahim 6	
Oct	24	Mon	Mrs Parbhoo-Ebrahim 7	
Nov	7	Mon	Mrs Parbhoo-Ebrahim 8	
Nov	14	Mon	Mrs Parbhoo-Ebrahim	EXAM

INY 715 Information Ethics

Aug	2	Tue	Prof Holmner (1)	
Aug	16	Tue	Prof Holmner (2)	
Aug	30	Tue	Prof Holmner (3)	
Sep	13	Tue	Prof Holmner (4)	
Oct	4	Tue	Prof Holmner (5)	
Oct	18	Tue	Prof Holmner (6)	
Nov	1	Tue	Prof Holmner (7)	
Nov	8	Tue	Prof Holmner (8)	
Nov	21	Mon	Prof Holmner	EXAM

INY 716 Information and knowledge management (II)

Aug	4	Thur	Ms Meyer (1)	
Aug	18	Thur	Ms Meyer (2)	
Sep	1	Thur	Ms Meyer (3)	
Sep	29	Thur	Ms Meyer (4)	
Oct	13	Thur	Ms Meyer (5)	
Oct	20	Thur	Ms Meyer (6)	
Oct	27	Thur	Ms Meyer (7)	
Nov	10	Thur	Ms Meyer (8)	
Nov	24	Thur	Ms Meyer	EXAM

INY 717 Data Management

Feb	24	Thurs	Dr Ball & Ms Yelverton 1	
March	10	Thurs	Dr Ball & Ms Yelverton 2	
March	24	Thurs	Dr Ball & Ms Yelverton 3	
Apr	7	Thurs	Dr Ball & Ms Yelverton 4	
Apr	28	Thurs	Dr Ball & Ms Yelverton 5	
May	12	Thurs	Dr Ball & Ms Yelverton 6	
May	26	Thurs	Dr Ball & Ms Yelverton 7	
June	9	Thurs	Dr Ball & Ms Yelverton 8	
June	23	Thurs	Dr Ball & Ms Yelverton	EXAM

INY 722 Fourth industrial revolution

March	2	Wed	Prof Dick (1)	
March	16	Wed	Prof Dick (2)	
March	30	Wed	Prof Dick (3)	
Apr	5	Tue	Prof Dick (4) (Please note different day)	
May	4	Wed	Prof Dick (5)	
May	18	Wed	Prof Dick (6)	
May	24	Tue	Prof Dick (7) (Please note different day)	
June	1	Wed	Prof Dick (8)	
June	20	Mon	Prof Dick	EXAM

INY 726 Competitive Intelligence (I)

March	3	Thurs	Mr Maungwa (1)	
March	17	Thurs	Mr Maungwa (2)	
March	31	Thurs	Mr Maungwa (3)	
Apr	21	Thurs	Mr Maungwa (4)	
May	5	Thurs	Mr Maungwa (5)	
May	12	Thurs	Mr Maungwa (6)	
May	19	Thurs	Mr Maungwa (7)	
June	2	Thurs	Mr Maungwa (8)	
June	15	Wed	Mr Maungwa	EXAM

INY 727 Competitive Intelligence (II)

July	27	Wed	Mr Cruywagen (1)	
Aug	10	Wed	Mr Cruywagen (2)	
Aug	24	Wed	Mr Cruywagen (3)	
Sep	7	Wed	Mr Cruywagen (4)	
Sep	28	Wed	Mr Cruywagen (5)	
Oct	12	Wed	Mr Cruywagen (6)	
Oct	26	Wed	Mr Cruywagen (7)	
Nov	9	Wed	Mr Cruywagen (8)	
Nov	17	Thurs	Mr Cruywagen	EXAM

INY 730 Information Communication

Feb	23	Wed	Prof Fourie (1)	
March	9	Wed	Prof Fourie (2)	
March	23	Wed	Prof Fourie (3)	
April	6	Wed	Prof Fourie (4)	
April	26	Tue	Prof Fourie (5)	(Please note different day)
May	11	Wed	Prof Fourie	
May	25	Wed	Prof Fourie	
June	8	Wed	Prof Fourie	
June	30	Thurs	Prof Fourie	EXAM