University of Pretoria Yearbook 2022

Bachelor of Information Technology Honours *Information Systems* [BITHons] (12245000)

Department	Informatics
Minimum duration of study	1 year
Total credits	120
NQF level	08

Programme information

Refer also to G16-G29.

Admission requirements

1. Bachelor's degree with majors in:
   a. Information Technology
      or
   b. Computer Science
      or
   c. Informatics
      or
   d. Information Systems
2. Weighted average of at least 60% over all third-year modules in:
   a. Information Technology
      or
   b. Computer Science
      or
   c. Informatics
      or
   d. Information Systems

Other programme-specific information

Subject to the provisions of G18.3, a full-time student must complete his or her studies for an honours degree within two academic years (four semesters) and a part-time student within three academic years (six semesters) after first registration for the degree. However, the Dean may, on the recommendation of the relevant head of department, extend the period of study in both cases by a maximum of two semesters.

Examinations and pass requirements

Refer also to G18 and G26.

1. The examination in each module for which a student is registered, takes place during the normal examination period after the conclusion of lectures (i.e. usually October/November or May/June).
2. G18(1) applies with the understanding that under exceptional circumstance an extension of a maximum three years may be approved: provided that the Dean, on recommendation of the relevant head of department, may approve a stipulated limited extension of this period.
3. A student must obtain at least 50% in an examination for each module where no semester or year mark is required. A module may only be repeated once.
4. In modules where semester or year marks are awarded, a minimum examination mark of 40% and a final mark of 50% is required.
5. No supplementary or special examinations are granted at postgraduate level.

Pass with distinction

The degree is conferred with distinction if students registered for the degree for the first time, complete the degree within the minimum prescribed time and pass all modules with a weighted average of 75% (not rounded).

Curriculum: Final year

Minimum credits: 120

Core modules

Research report 780 (INF 780)

Module credits	30.00
NQF Level	08
Contact time	1 other contact session per week, 1 web-based period per week
Language of tuition	Module is presented in English
Department	Informatics
Period of presentation	Year

Module content

A research paper on a topic from the field of informatics.

Elective modules

Capita selecta 713 (INF 713)

Module credits	15.00
NQF Level	08
Prerequisites	No prerequisites.
Contact time	1 web-based period per week, 8 lectures per week
Language of tuition	Module is presented in English
Department	Informatics
Period of presentation	Semester 1 or Semester 2

Module content

This module will be used to present special, relevant topics within the expertise of the department.

Enterprise architecture 715 (INF 715)

Module credits	15.00
NQF Level	08
Prerequisites	INF 788
Contact time	1 lecture per week
Language of tuition	Module is presented in English
Department	Informatics
Period of presentation	Semester 1 or Semester 2

Module content
Enterprise Architecture (EA) involves comprehensive business frameworks that capture the complexity of modern organisations, providing a blue-print for co-ordinating and integrating all components of an organisation. The module will illustrate all the aspects of EA, discuss the need for EA as well as various frameworks, methods and techniques of EA.

Capita selecta 716 (INF 716)

Module credits	15.00
NQF Level	08
Prerequisites	No prerequisites.
Contact time	1 lecture per week
Language of tuition	Module is presented in English
Department	Informatics
Period of presentation	Semester 1 or Semester 2

Module content
This module will be used to present special, relevant topics within the expertise of the department.

Data warehousing 785 (INF 785)

Module credits	15.00
NQF Level	08
Prerequisites	No prerequisites.
Contact time	1 lecture per week, 1 other contact session per week, 1 web-based period per week
Language of tuition	Module is presented in English
Department	Informatics
Period of presentation	Semester 1 or Semester 2

Module content
- Advanced database design
- Advanced database management
- Database architectures and languages
- Data warehousing and data marts
- Current trends

Management of ICT projects 787 (INF 787)

Module credits	15.00
NQF Level	08
Prerequisites	No prerequisites.

Contact time	1 lecture per week, 1 other contact session per week, 1 web-based period per week
Language of tuition	Module is presented in English
Department	Informatics
Period of presentation	Semester 1 or Semester 2

Module content

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

Information systems development 788 (INF 788)

Module credits	15.00
NQF Level	08
Prerequisites	No prerequisites.
Contact time	1 lecture per week, 1 web-based period per week
Language of tuition	Module is presented in English
Department	Informatics
Period of presentation	Semester 1 or Semester 2

Module content

Study and evaluation of different systems development methodologies.

Human-computer interaction 790 (INF 790)

Module credits	15.00
NQF Level	08
Prerequisites	No prerequisites.
Contact time	1 lecture per week, 1 web-based period per week
Language of tuition	Module is presented in English
Department	Informatics
Period of presentation	Semester 1 or Semester 2

Module content

This module will be used to present special, relevant topics within the expertise of the department.

Applied data science 791 (INF 791)

Module credits	15.00
NQF Level	08
Prerequisites	No prerequisites.

Contact time	1 lecture per week, 1 other contact session per week, 1 web-based period per week
Language of tuition	Module is presented in English
Department	Informatics
Period of presentation	Semester 1 or Semester 2

Module content

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; and
• Product overviews - product demonstrations by data mining vendors.

Management of information systems 794 (INF 794)

Module credits	15.00
NQF Level	08
Prerequisites	No prerequisites.
Contact time	1 lecture per week, 1 web-based period per week
Language of tuition	Module is presented in English
Department	Informatics
Period of presentation	Semester 1 or Semester 2

Module content

Business process management; ERP systems; IT trends.

Information and communications technology law 780 (KUB 780)

Module credits	15.00
NQF Level	08
Service modules	Faculty of Economic and Management Sciences
Prerequisites	KRG 110 or BER 210 or BER 310 or BER 410
Contact time	2 lectures per week
Language of tuition	Module is presented in English
Department	Mercantile Law
Period of presentation	Semester 1 or Semester 2

Module content

a. Introduction to the study of information and communications technology law:

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

b. Regulation of the Internet:

- National/International
- Jurisdiction

c. Aspects of intellectual property law and the Internet
d. E-Commerce activities and the Internet:

- Aspects of jurisdiction and signing of contracts
- Dataprotection and encryption
- Liability of Internet service providers
- Consumer Protection

e. Criminal liability in information and communications technology space
f. Constitutional aspects in information and communications technology space:

- The right to privacy/freedom of expression/information