University of Pretoria Yearbook 2019

BITHons Information Systems (12245000)

Minimum duration of study	1 year
Total credits	120

Admission requirements

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.

Other programme-specific information

The Department reserves the right not to present a particular module if the specific expertise is not available in a particular year.

Curriculum: Final year

Minimum credits: 120

Fundamental modules

Human computer interaction 703 (INF 703)

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

Module content

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

Capita selecta 713 (INF 713)

Module credits	15.00
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
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
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.

Advanced database systems 785 (INF 785)

Module credits	15.00
Prerequisites	No prerequisites.
Contact time	1 web-based period per week, 1 other contact session per week, 1 lecture 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

Managing projects and end-users 787 (INF 787)

Module credits	15.00
Prerequisites	No prerequisites.
Contact time	1 web-based period per week, 1 lecture 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
Prerequisites	No prerequisites.
Contact time	1 web-based period per week, 1 lecture 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.

Knowledge acquisition and sharing 791 (INF 791)

Module credits	15.00
Prerequisites	No prerequisites.
Contact time	1 practical per week, 2 web-based periods per week, 1 lecture 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.

e-Business 793 (INF 793)

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

Module content

The analysis of the management, innovation and information systems aspects of the use of e-business technology and strategies.

Information and communications technology law 780 (KUB 780)

Module credits	15.00
Service modules	Faculty of Economic and Management Sciences
Prerequisites	KRG 110 or BER 210 or BER 310 or BER 410
Contact time	1 lecture 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

Core modules

Research methodology 714 (INF 714)

Module credits	15.00
Prerequisites	No prerequisites.
Contact time	1 web-based period per week, 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 compulsory module explains different approaches that can be used for research in Informatics and gives practical advice with respect to carrying out limited research projects. It also assists students in selecting suitable research topics and writing research proposals in preparation for the research paper, which they will write in INF 780.

Research report 780 (INF 780)

Module credits	30.00
Prerequisites	INF 714
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	Semester 1 or Semester 2

Module content

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

The information published here is subject to change and may be amended after the publication of this information. The General Regulations (G Regulations) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the General Rules section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.