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ACADEMIC PERSONNEL AS AT 30 SEPTEMBER 2005

DEAN

Prof R.F. Sandenbergh, PrEng MEng DEng(Pret) GSAIMM LSAKorrl

CHAIRPERSON OF THE SCHOOL

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Roode, J.D., BSc(Hons) MSc(Phy) MSc(Maths)(PU for	-
CHE) PhD(Leiden) ACSSA LONSA MACM	
MSAICSIT CAIS	Extraordinary Professor
Smith, A.J., BA(PU for CHE) BSc(Hons) MSc(Unisa)	
DCom(Pret)	Extraordinary Professor
Alexander, P.M., BSc(Hons) MSc(Unisa) PhD(Pret)	
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University Canada) PhD(Pret)	Senior Lecturer
Ponelis, S., BSc BA(Hons) MIS(Pret)	Senior Lecturer
Van Loggerenberg, J.J., BSc MBA(PU for CHE) DCom(Pret)	. Senior Lecturer (AST
Chair)	
Weilbach, E.H., BCom(Hons) MCom(Pret)	Senior lecturer
Le Roux, J.G., BSc(Hons) MCom(Pret)	
Lutu, P.E.N., BSc(Hons) MSc(Univ Manchester)	
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Venter, E., BCur BCom(Hons) MCom(Pret)	
Dimas, S., BCom BCom(Hons) MCom(Pret)	Junior Lecturer
Masoeu, M.A., BSc(Hons)(Ind.Psych)	
BSc(Hons)(CS)(PU for CHE) MCom(Pret)	Junior Lecturer
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Boon, J.A., BA(PU for CHE) BA(Bibl)(Hons)(Pret) MBibl	
DLitt et Phil(RAU) HD(Bibl)(Pret)	Extraordinary Professor
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Snyman, M.M.M., BA(Bibl) BB	ibl(Hons)(Pret) PD(Inf	
Sc) M(Bibl) DLitt et Phil(RA	U)	. Associate Professor
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HED(Pret)	Senior Lecturer
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BA(Hons)(UNITRA) BBibl(Hons) MIS PhD(Natal)	Senior Lecturer
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Holmner, M.A., BA(Hons) MA(Pret)	Lecturer
Penzhorn, C.E., BA(Log) BBibl(Hons) MIS(Pret)	
HD(Bibl)(Unisa)	Lecturer
Sewdass, N., BBibl BBibl(Hons)(Unisa) MBA(UK)	
MInf(Unisa)	Lecturer
MInf(Unisa) Squier, M.M., BIS(Unisa) BIS(Hons) MIS(Pret)	Lecturer
Thompson, J.E., BA BEd MIS HD(Bibl) HED(Natal)	Lecturer
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Bishop, J.M., BSc BSc(Hons)(Rhodes) MSc(Natal)	
PhD(Southampton)	Professor
Engelbrecht, A.P., BSc BSc(Hons) MSc PhD(Stell)	Professor
Kourie, D.G., BSc BSc(Hons) MSc(Pret) MSc(Unisa)	
PhD(Lancaster)	Professor
Olivier, M.S., BSc BSc(Hons) MSc PhD BA	
BA(Hons)(RAU)	Professor
Watson, B.W., JB(Math) JB(Math)(Hons)(Waterloo)	
PhD(Eindhoven)	Professor
Grant T.J. BSc Aero Eng(Bristol) C Eng	
Grant, T.J., BSc Aero Eng(Bristol) C Eng DF(Brunel)PhD(Maastricht)	Extraordinary Professor
Van den Heever, R.J., BSc BSc(Hons) MSc(Pret)	
MS(Stanford) MEng PhD(Calif)	Extraordinary Professor
Venter, H.S., BSc BSc(Hons) MSc PhD(RAU)	
Franken, C.J., BA BSc(Hons) MSc(Pret)	
Marshall, L., BSc BSc(Hons) MIT(Pret)	
Masiye, B.S., BSc(Hons) MSc(NUST)	
Pieterse, V., BSc HED(Pret) BSc(Hons)(Unisa) MSc(Pret)	
Strauss, M.D., BSc BSc(Hons)(Pret)	
Venter, S.L., BSc BSc(Hons)(Pret)	

Head: Student Administration

Jones, E.

GENERAL INFORMATION

Admission

Any person who wishes to register at the University for the first time, or after an interruption of studies, should apply or reapply for admission. Application for admission to all undergraduate programmes closes on 30 September. Visit the website (http://sit.up.ac.za) for application details concerning the postgraduate programmes.

Selection

A selection procedure takes place prior to admission to the degree programmes in the School of Information Technology. The number of students admitted to the undergraduate programmes in the School may be limited. Postgraduate selection takes place in accordance with departmental policy.

Statement of symbols

When registering at this University for the first time, an undergraduate candidate must submit a statement of symbols obtained for subjects in the final Grade 12 examination.

Matriculation certificate

All undergraduate candidates who enroll at the University of Pretoria for the first time, must show their original matriculation certificate at the Student Administration of their faculty before the end of the first semester.

M-score

Degrees may differ in their M-score requirement for admission for the specific degree. The M-score is calculated as follows:

Symbol	Higher Grade	Standard Grade
A-symbol (80% and more)	5	4
B-symbol (70% to 79%)	4	3
C-symbol (60% to 69%)	3	2
D-symbol (50% to 59%)	2	1
E-symbol (40% to 49%)	1	0

Medium of instruction

In conducting its business, the University uses two official languages, namely Afrikaans and English. In formal tuition, the medium of instruction is either Afrikaans or English, or both of these languages; provided that there is a demand and that it is academically and economically justifiable. However, it remains the student's responsibility to ascertain on an annual basis whether modules in a programme are to be presented in Afrikaans and/or in English.

In respect of administrative and other services, a student has the right to choose whether the University should communicate with him or her in Afrikaans or English.

Bursaries and loans

Particulars of bursaries and loans are available on request.

Accommodation

Applications for accommodation in university residences for a particular year may be submitted as from April 1 of the preceding year. Applications will be considered while vacancies exist, and prospective students are advised to apply well in advance. Please note that admission to the University does not automatically mean that lodging will also be available.

Welcoming day and academic information week

Details about the welcoming day, to which all parents are cordially invited, and about the subsequent academic information week, which all new first-year students **should** attend, are obtainable from the Dean of Students, University of Pretoria 0002.

Prescribed books

Lists of prescribed books are not available. The lecturers will supply information regarding prescribed books to students at the commencement of lectures.

Amendment of regulations and fees

The University retains the right to amend the regulations and to change tuition fees without prior notification.

GLOSSARY OF TERMS

academic year: The duration of the academic year, which is determined by the University Council.

admissions regulation: A regulation compiled by the Dean concerning the admission of students to a specific School, which includes a provision regarding the selection process.

credit (or **credit value**): A value unit linked to learning activities, calculated in accordance with the SAQA norm of **1 credit = 10 notional hours (learning hours)**. Credits are linked to modules and qualifications.

curriculum: A series of modules which form a programme, grouped together over a specified period of time and in a certain sequence according to the regulations.

examination mark: The mark a student obtains for an examination in a module, including practical examinations where applicable.

extended study programme: A study programme for a degree or diploma that is completed over a longer period than the minimum duration of the particular degree or diploma.

final mark: The mark calculated on the basis of the semester/year mark and the examination mark which a student obtains in a particular module according to a formula that is determined from time to time in the regulations for each module with the proviso that should no semester/year mark be required in a module, the examination mark serves as the final mark.

GS: A combined (final) mark (semester/year mark plus examination mark) of 40%-49%.

learning outcome: The end product of a specified learning process, i.e. the learning result (specific skills) that one intends to achieve at the end of the learning process.

level of a module: The academic level (year) of a module, which is indicated in the module code and which gives an indication of the complexity of the module.

LP: With the lecturer's permission.

module: An independent, defined learning unit, designed to result in a specific set of learning outcomes, and which is a component of a programme.

module code: Consists of an equal number of letters and digits, which indicate the name of the module, the year of study, the period of study and the level of the module.

notional hours (learning hours): The notional number of hours students should spend in mastering the learning content of a particular module or programme. The total number of learning hours for a module consists of the time needed for lectures, tutorials and practicals (contact hours), as well as for self-tuition, examination preparation and any other activity required by the study programme. (notional hours = credits x10)

NQF: National Qualifications Framework. This is a national framework in which all SAQAregistered qualifications are listed, arranged on eight levels in accordance with the complexity of the qualification.

programme: This is a comprehensively planned, structured and coherent set of teaching and learning units (modules), designed to attain a specific set of predetermined learning outcomes at a specific level, which culminates in a student being awarded a particular qualification (diploma, degree).

qualification: In outcomes-based education, a qualification is a diploma or a degree which is obtained after attaining the learning outcomes as specified in a coherent learning programme, expressed as an accumulation of credits at specific levels.

SAQA: South African Qualifications Authority. This body has been established by law and has as its purpose the registration of qualifications, programmes and unit standards, in order to ensure that specific national and international criteria are achieved.

semester/year mark: The mark a student obtains during the course of a semester or a year for tests, class-work, practical work or any other work in a particular module as approved by regulation.

student-centred learning: Teaching and learning methodology, which facilitates the total own responsibility for the learning process. A prerequisite is that lectures, tutorials and practicals be adapted so that active participation by students is always achieved.

syllabus: Summary of the contents of a module.

weighted average: The weighted average is composed of the marks of the various modules, weighted with the credits of each module as a fraction of the total number of credits for the quarter, semester or year.

DEGREES CONFERRED IN THE SCHOOL OF INFORMATION TECHNOLOGY

The Faculty of Engineering, Built Environment and Information Technology comprises three schools namely the School of Engineering, the School for the Built Environment and the School of Information Technology.

The School of Information Technology has three departments, namely the Department of Informatics, the Department of Information Science and the Department of Computer Science. Two Faculties offer the degrees that fall under the School of Information Technology. This implies that although the Department of Informatics falls under the School of Information Technology, the degree BCom(Informatics) is conferred by the Faculty of Economic and Management Sciences (see below for further details).

Faculty of Engineering, Built Environment and Information Technology

The following degrees are conferred by the Faculty:

- (a) Bachelor of Information Technology (BIT)
- (b) Master of Information Technology (MIT)
- (c) Doctor of Philosophy in Information Technology

Department of Informatics

The following degrees are conferred by the Faculty of Economic and Management Sciences:

- (a) Baccalaureus Commercii with specialisation in Informatics
- (b) Magister Commercii with specialisation in Informatics
- (c) Magister Philosophiae with specialisation in Informatics
- (d) Doctor Commercii with specialisation in Informatics
- (e) Philosophiae Doctor specializing in Informatics

Department of Information Science

The following degrees are conferred by the Faculty of Engineering, Built Environment and Information Technology:

- (a) Baccalaureus Informationis Scientiae BIS
 - (i) with specialisation in Library Science
 - (ii) with specialisation in Information Science
 - (iii) with specialisation in Multimedia
 - (iv) with specialisation in Publishing
 - (v) with specialisation in Information and Knowledge Management
- (b) Baccalaureus Informationis Scientiae Honores
 - (i) with specialisation in Information Science
 - (ii) with specialisation in Multimedia
 - (iii) with specialisation in Publishing
- (c) Magister Informationis Scientiae (Research)
 - (i) with specialisation in Library Science
 - (ii) with specialisation in Information Science
 - (iii) with specialisation in Multimedia
 - (iv) with specialisation in Publishing
- (d) Magister Informationis Scientiae (Coursework)
 - (i) with specialisation in Library Science
 - (ii) with specialisation in Information Science
 - (iii) with specialisation in Multimedia
 - (iv) with specialisation in Publishing
- (e) Doctor Philosophiae (DPhil)
 - (i) with specialisation in Library Science
 - (ii) with specialisation in Information Science
- (f) Philosophiae Doctor (PhD)
 - (i) with specialisation in Publishing

The following degrees are conferred by the Faculty of Humanities:

- (a) Magister Artium (research) with specialisation in Development Communication
- (b) Magister Artium (coursework) with specialisation in Development Communication

Department of Computer Science

The following degrees are conferred by the Faculty of Engineering, Built Environment and Information Technology:

- (a) Baccalaureus Scientiae in Information Technology (Information and Knowledge Systems)
- (b) Baccalaureus Scientiae in Computer Science
- (c) Baccalaureus Scientiae Honores in Computer Science
- (d) Magister Scientiae in Computer Science
- (e) Philosophiae Doctor in Computer Science

REGULATIONS

The rules for degrees here published are subject to change and may be amended prior to the commencement of the academic year in 2006.

IT.1 Admission to undergraduate study

(a) General

General Regulations G.1 to G.15 are applicable to bachelor's degrees.

- (i) To register for a first bachelor's degree at the University, a candidate must, in addition to the required Grade 12 certificate with full matriculation exemption, comply with the specific admission requirements for particular modules and fields of study as prescribed in the admission regulations and the faculty regulations of the departments.
- (ii) All candidates must write the admissions test.
- (iii) Applicants are notified in writing of provisional admission. Admission to the School of Information Technology is based on the final matriculation examination results and results of the admissions test.
- (iv) The following persons may also be considered for admission:
 - A candidate who is in possession of a certificate which is deemed by the University to be equivalent to the required Grade 12 certificate with full matriculation exemption.
 - * A candidate who has passed the UP Foundation Year.
 - * A candidate who is a graduate from another tertiary institution or has been granted the status of a graduate of such an institution.
 - * A candidate who passes an entrance examination, which is prescribed by the University from time to time.

Note: A conditional exemption certificate does not grant admission to bachelor's study. However, in certain circumstances some of the faculties do accept a conditional exemption on the basis of mature age and prior learning. Candidates are advised to contact the specific faculty administration in this regard.

- (v) The Senate may limit the number of students allowed to register for a programme, in which case the Dean concerned may, at his or her discretion, select from the students who qualify for admission those who may be admitted.
- (vi) Subject to faculty regulations and the stipulations of General Regulations G.1.3 and G.62, a candidate will only be admitted to postgraduate bachelor's degree studies, if he or she is already in possession of a recognised bachelor's degree.

IT.2 Requirements for specific modules

A candidate who has:

- (a) passed the Grade 12 examination in Mathematics with at least 40%(E) at higher grade or at least 50%(D) at standard grade, will be admitted to the modules GLY 151 and 152 in Geology;
- (b) passed the Grade 12 examination in Mathematics with at least 50%(D) at higher grade, will be admitted to WTW114, WTW134 and WTW158 in Mathematics, and to WST111 in Mathematical Statistics (for the Financial Mathematics degree programme, a 60%(C) in Mathematics is recommended);
- (c) passed the Grade 12 examination in Mathematics with at least 40%(E) at higher grade or at least 50%(D) at standard grade, or at least 50%(D) in both Statistics 113 and 123, will be admitted to (i) Informatics (excluding INF 153,154, 163, 164 and 271, 272), Statistics, Economics 113, 120, 123, and (ii) modules in Economics at 200 level;
- (d) obtained at least 60%(C) in Accounting on higher grade in the Grade 12 examination, may enrol immediately for INF 181, a subject covering computer applications in accounting and offered for the duration of the first semester (14 weeks). All other students who have obtained at least 40%(E) in FRK 111, must enrol for INF 181 in the second semester (14 weeks). Modules FRK 111 and FRK 121 will only be recognised for degree purposes once the student has also passed INF 181;

- (e) to obtain admission to COS 110, a candidate should have obtained the following:
 - (i) at least 50%(D) in Mathematics at higher grade in the final Grade 12 examinations; and
 - (ii) at least 50%(D) in Computer Studies at Higher Grade in the final Grade 12 examinations or EPE111/EPE112 or COS 130.
 Note: COS 130 is also presented as a short course in January during the Summer School.
- (f) passed the Grade 12 examination in Mathematics with at least 40%(E) at higher grade or 50%(D) at standard grade, or passed Geography with at least 50%(D) at higher grade, will be admitted to GGY 153, 154, 132, 162 and 165 in Geography;
- (g) passed the Grade 12 examination in Mathematics with at least 50%(D) at higher grade or 60%(C) at standard grade, or passed Mathematics at higher grade with at least 40%(E) or at standard grade with at least 50%(D) as well as Computer Studies with at least 60%(C) at higher grade or 70%(B) at standard grade, or completed IT Special in the Faculty of Engineering, Built Environment and Information Technology will be admitted to Informatics 153, 154, 163, 164.
- (h) Students are required to pass at least three Computer Science modules at secondyear level, before admission to the Computer Science modules at third-year level will be permitted, unless special permission has been granted by the head of the department.
- To obtain admission to COS 130 a candidate should comply to the entry requirements for IT Special.

Please note:

- (i) ... *the Grade 12 examination*... refers to the final matriculation examination.
- (ii) A student who takes a module presented by another faculty must take note of the admission requirements of such module, sub minima required in examination papers, supplementary examinations, etc.

IT.3 Registration for a specific year

A student registers for all the modules he or she intends taking in that specific year (quarter modules, first and second semester modules and year modules) at the beginning of an academic year. Changes to a curriculum at the beginning of the second semester may be made only with the approval of the Dean.

IT.4 Minimum study period

The minimum period of study for the degree is indicated at the relevant degree programme. Students registering for a three-year degree, must complete the degree in a maximum of five years. Students registering for a four-year degree, must complete the degree in a maximum of six years.

IT.5 Requirements for promotion to the following year of study

- (a) A new first-year student, who has failed in all the prescribed modules of the programme at the end of the first semester, will not be allowed to the second semester in the School of Information Technology. These students will be notified by the Dean's office, in writing at the end of the relevant semester, of their exclusion from further studies in the Faculty of Engineering, Built Environment and Information Technology. Students who forfeit the right of readmission, may apply in writing to the Admissions Committee of the School of IT for readmission to the Faculty.
- (b) A student who has not passed at least 70% of the core credits of the registered year of study must reapply for admission to the School of Information Technology.

A student whose right to readmission has expired, will be notified by the Dean's office, in writing at the end of the relevant year, of their exclusion from further studies in the Faculty of Engineering, Built Environment and Information Technology. Students who forfeit the right of readmission, may apply in writing to the Admissions Committee of the School of IT for readmission to the Faculty.

- (c) Written applications must be submitted to the Faculty Administration, not later than the 13th of January. Late applications will be accepted only in exceptional circumstances after approval by the Dean.
- (d) Should a student be readmitted, strict conditions of readmission will be determined by the Admissions Committee.
- (e) A student, who is repeating his or her year, may by the Dean, on recommendation of the relevant Head(s) of Department, be permitted to enroll for modules of the following year of study in addition to the outstanding modules he or she failed, providing that he or she complies with the prerequisites of these modules and no timetable clashes occur. In no semester may the total credits, for which a student registers, exceed the normal number of credits per semester by more than 16 credits, except with special permission from the relevant head of department.
- (f) Students who fail a module for a second time, forfeit the privilege of registering for any modules of an advanced year of study.

IT.6 Change of field of study

Transfer from one field of study to another may only take place with the Dean's approval, after consultation with the relevant head of department.

IT.7 Registration of modules

- (a) Final dates are set for the change of modules (cancellation or addition) for each academic year. These dates are available from the Student Administration offices. Students may change the modules they are registered for only with the approval of the Dean and within the first two weeks after commencement of the module.
- (b) A student may not register for a module of a subsequent year if a timetable clash occurs with a module of a previous year which has not yet been passed and which is prescribed for his or her field of study, unless exemption is obtained from class attendance in the latter module.
- (c) Should a student register for modules of the second semester at the beginning of a year of study, and it becomes evident at the end of the first semester that he or she does not comply with the prerequisites of the second semester modules, the registration of such modules will be cancelled. It is also the student's responsibility to ensure at the beginning of the second semester that the cancellation has been brought about.

IT.8 Module credits for unregistered students

There are students who attend lectures, write tests and examinations and in this manner earn "marks", but who have neither registered for modules nor registered as students. These students will under no circumstances obtain credits for a module "passed" in this manner and will also not be allowed to register late for the module.

IT.9 Computer and information literacy

Computer and information literacy are offered as compulsory modules. Students will be able to write an exemption examination for CIL 111. No exemption will be given for CIL 121 as the contents will be University specific. Students may only write the exemption examination for CIL 111 once.

IT.10 Academic literacy

It is expected of every new undergraduate student who wishes to register at the University of Pretoria, to complete an Academic Literacy test. Students who pass will be granted exemption from the compulsory EOT academic literacy modules.

IT.11 Examinations

11.1 Examinations, projects and essays

- (a) An examination in a module may be written and/or oral. Projects and essays are prepared and examined as stipulated in the study guide of the module, in accordance with the regulations and procedures as described in 11.2 below.
- (b) The examinations for modules of the first semester are held in May/June, while all other examinations (third and fourth quarter modules, second semester modules and year modules) are held in October/November/January.

11.2 Examination admission

A minimum semester/year mark of 40% is required in order to be admitted to the examination in a specific module, with the exception of a first-semester module at first-year level where a minimum semester mark of 30% is required for admission to the final examination. In addition, all other examination admission requirements, applicable to the relevant module, must have been met.

11.3 Pass requirements

Refer also to General Regulations G.10.2, G.11.1(a) and G.12.2.2

- (a) In order to pass a module a student must obtain an examination mark of at least 40% and a final mark of at least 50%. A student passes a module with distinction if a final mark of at least 75% is obtained. The final mark is compiled from the semester/year mark and the examination mark.
- (b) Calculation of the final mark: The semester/year mark must account for no less than 40% and no more than 60% of the final mark, with the exception of modules such as design and research projects and essays, as well as in modules where the development of general skills is the primary learning activity, where appropriate alternative norms are determined individually by schools or departments. The specific details and/or formula for the calculation of the final mark are given in the study guide of each module.
- (c) Calculation of the semester/year mark: The semester/year mark is compiled from formative assessment of learning activities such as assignments, presentations, practicals and group projects, as well as from class tests and semester tests. For each module the specific formula for the calculation of the semester/year mark is determined by the lecturer(s) responsible for the presentation of the module and the details are given in the study guide. Refer also to General Regulation G.11.1(b).
- (d) In some modules specific requirements in respect of certain components of the semester/year mark may be set, in order for a student to pass the module (for example that satisfactory performance in and attendance at practical classes are required). Thus, even if a pass mark is obtained in the module, a pass is not granted unless these requirements are met. For such modules these specific requirements are given in the study guide.
- (e) A student must comply with the subminimum requirements in subdivisions of certain modules. For such modules these specific requirements are given in the study guide of the module.
- (f) A student may be promoted (exempted from the examination) in certain modules should a specified semester/year mark (minimum 65%) be obtained. For such

modules these specific requirements are given in the study guide of the module. Refer also to General Regulation G.10.3.

11.4 Ancillary examinations

Refer to General Regulation G.12.3.

11.5 Supplementary examinations

Refer to General Regulation G.12.4.

In the School of Information Technology all supplementary examinations are considered and granted in accordance with the stipulations of General Regulation G.12.4, except that the semester mark is taken into account when the final mark is calculated and in accordance with the faculty regulations of the faculty in which the module is offered. The only exception to this rule is in the case of first-year modules on first-semester level, where the semester mark is not considered, and where the supplementary examination mark is taken as the final mark, with the proviso that the maximum final mark awarded may be no more than 50%. Special supplementary examinations will not be arranged for students who were not able to write the supplementary examinations during scheduled times, as provided in the examinations timetable.

11.6 Special examinations (including the aegrotat)

Refer to General Regulation G.12.5.

11.7 Other special examinations

Refer also to General Regulation G.12.6.

- (a) The Dean may, at the recommendation of the head of the department concerned, grant a special examination in a module to a student who failed that module in the final year of study, and consequently does not comply with degree requirements. A student may at most, be admitted to one special examination in a year module or two special examinations in semester modules or four special examinations in quarter modules.
- (b) To be taken into consideration for a special examination, a student should have obtained a minimum final mark of 40% and should also have complied with all other examination admission requirements which are applicable to the relevant module.
- (c) A student must apply in writing to the Dean before consideration will be given to admission to a special examination. The head of the department decides when the special examination will take place and may prescribe work that must be satisfactorily completed before a student may write the examination.
- (d) During calculation of the final mark the semester mark is retained and the final mark is calculated as the weighted average of the special examination mark and the semester mark, in accordance with the formula as published in the study guide of the specific module. The candidate should also comply with the subminimum requirements. The highest final mark that may be awarded is 50%.
- (e) If a test clash occurs between modules, an adjustment of the test date and/or time will only be considered if the student completes an official application form at the department's administration and submits a copy and supporting documentation to the relevant lecturer at least seven (7) days prior to the scheduled test. A module from a higher year level receives preference to that of a lower year level within the prescribed curriculum.
- (f) If an examination clash occurs between modules, an adjustment of the examination date and/or time will only be considered if the student completes the official application form at the Student Administration offices and submits a copy to the relevant lecturer at least seven (7) days prior to the commencement of the

examination period. A module from a higher year level receives preference to that of a lower year level within the prescribed curriculum.

11.8 Re-marking of examination scripts

Refer to General Regulation G.14.

IT.12 Degree with distinction (Undergraduate)

A degree in the School of IT is conferred with distinction on a student who did not repeat any module of his/her final year, obtained a weighted average of at least 75% in all the prescribed modules for the final year, provided that a subminimum of 65% is obtained in each of these modules and provided that the degree is completed in the prescribed minimum period of time. Ad hoc cases will be considered by the Dean, in consultation with the head of the relevant department.

CURRICULA OF THE INFORMATION TECHNOLOGY PROGRAMMES

IT.13 BACHELOR OF INFORMATION TECHNOLOGY (BIT) (Code 02130082)

This degree is conferred by the Faculty of Engineering, Built Environment and Information Technology.

Programme organiser:

Mrs D Taljaard, Information Technology Building, Room 5-82.2, Tel: 012 420 4095, e-mail: dawn.taljaard@up.ac.za

Admission requirements for candidates with a senior certificate

A Grade 12 certificate with university endorsement; and

- (a) a minimum M-score of 18 in the final Grade 12 examinations; and
- (b) a final mark of at least 60%(C) in Mathematics at higher grade in the Grade 12 examinations; **and**
- (c) at least 60%(C) in Computer Studies at higher grade in the final Grade 12 examinations;
 - or

EPE111/EPE112/COS130 (COS 130 is also presented as a short course in January during the Summer School).

or

A candidate who complies with the M-score and Mathematics requirements, but not with the Computer Studies prerequisite, can obtain special permission from the Chairperson of the School of Information Technology to register for this degree.

Candidates who do not comply with these requirements are advised to register for IT Special, depending on whether they comply with its admission requirements.

Admission requirements for candidates with a National Senior Certificate (from 2009)

To be admitted to any undergraduate field of study in the School of Information Technology, candidates who wrote the final Grade 12 exams for the National Senior Certificate must comply with the following admission requirements:

- 1. Obtained a NSC (University Admission); and
- 2. Written examinations in both Mathematics and Information Technology.

Curriculum

The list of required modules is given below in a proposed study programme. The degree is awarded upon successful completion of a minimum of 633 credits, of which 164 are required at first-year level, 150 at second-year level, at least 159 at third-year level, and at least 160 at fourth-year level. Note: The module credits set out below are in accordance with SAQA requirements and may differ from those set out in other fields of study.

Note:

Minimum requirement

GS Code followed by GS: XYZ 151GS A combined (final) mark of 40% - 49%. Deviations from these requirements are only permitted with the approval of the Dean, after consultation with the relevant head(s) of department.

(a) First year of study (164 credits)

Fundamental mo	odules (University requirements - 2	0 credits)	Fundamental modules (University requirements - 20 credits)			
Code	Module	Prerequisites	Credits			
Passing of an exe	emption examination in CIL 111 or					
CIL 111	Computer Literacy and		4			
CIL 121	Information Literacy		4			
Passing of an exe	emption examination in Academic Lite	eracy or				
EOT 110	Academic Literacy		6			
EOT 120	Academic Literacy		6			
and						
EOT 164	Academic Literacy		6			
COS 110	Program Design: Introduction	Mathematics HG D and Computer Studies HG D	16			
COS 140	Netcentric Computer Systems	COS 110 or (COS 130/COS 131/EPE 111/EPE 112)	16			
COS 151	Introduction to Computer Science		8			
OBS 110	Business Management		10			
FRK 111	Financial Accounting		10			
FRK 121	Financial Accounting	FRK 111 GS	12			
INF 153	Informatics	Par IT.2(g)	5			
INF 163	Informatics	INF 153 GS	5			
INL 111	Information Science		6			
INL 112	Information Science		6			
WTW 115	Discrete Structures	Maths Gr 12 HG (D)	8			
WTW 114	Calculus	Maths Gr 12 HG (D)	16			
WTW 126	Linear Algebra	Maths Gr 12 HG (D)	8			
FIL 120	Philosophy	, ,	12			

Fundamental modules (University requirements - 20 credits)

Code	Module	Prerequisites	Credits
COS 212	Data Structures and Algorithms	COS 214 GS	16
COS 214	Design Patterns	COS 110 or [(COS 130/COS 131/EPE 111/EPE 112) and COS 140]	16
COS 222	Operating Systems	COS 110	16
INF 214	Informatics	CIL 111, 121 (previously CIL 171 – 174)	14
INF 271	Informatics	CIL 111, 121 (previously CIL 171 – 174), INF 163, Par IT.2(g)	14
INF 272	Informatics	CIL 111, 121 (previously CIL 171 – 174), INF 164	14
INY 271	Advanced Mark-up Language (1)		10
INY 272	Advanced Mark-up Language (2)		10
BER 410	Business Law		12
At least two of	f the following:		
INL 211	Information Science	CIL 121	10
INL 212	Information Science	INL 211†	10
INL 221	Information Science		10
WTW 285	Discrete Structures	WTW 115	12

(b) Second year of study (minimum 150 credits)

Note:

† Indicates that the module INL 211 must be passed before or be taken concurrently with INL 212.

(c) Third year of study (minimum 159 credits)

Code	Module	Prerequisites	Credits
COS 301	Software Engineering	COS 212	27
	or		
INF 370	Information Systems Project	INF 261, 225,	30
		271, 272, Par	
		IT.2(g) or LP	
	or		
INY 300	Multimedia Project		15
INF 324	Informatics	INF 261, 225,	15
		271, 272 or LP	
INF 315	Informatics	INF 261, 225,	15
		271, 272	
INF 354	Informatics	INF 261, 225,	15
		271, 272	
At least three	of the following:		
COS 314	Artificial Intelligence	COS 214	18
COS 326	Databases	INF 214	18

COS 332	Computer Networks	COS 140	18
COS 333	Programming Languages	COS 110	18
COS 341	Compiler Construction	COS 212	18
COS 343	Trends in Information Technology	COS 110 / (COS131 and COS140)	18
COS 344	Computer Graphics	COS 214 and (WTW 126 or LP)	18
INL 311	Information Science: Publication formats in a digital environment		15
INL 321	Information Science: Information Management		15
INY 311	Multimedia		15

(d) Fourth year of study (minimum 160 credits)

Code	Module	Prerequisites	Credits
SIT 700	Industry-based learning		52
JCP 202	Community-based project		8
Five modules (min	imum 100 credits) of the following with	n a maximum of	100
four modules from	one department:		
Note that a studen	t who wishes to continue with a MSc(Computer	
Science) or MCom	n(Informatics) or MIS(Information Scien	nce) should take	
four of the five hor	nours modules from that specific depart	rtment.	
Information Scient	nce		
INY 7**	Choice of honours modules in		20 each
	consultation with the programme		
	organiser		
Informatics			
INF 7**	Choice of honours modules in		20 each
	consultation with the programme		
	organiser		
Computer Science	e		
	Choice of honours modules in		20 each
	consultation with the programme		
	organiser		

(e) Requirements for promotion to the following year of study

Also consult General Regulations.

- (i) A student is promoted to the following year of study after obtaining the required credits as mentioned below:
 - Second year of study after obtaining at least 70% of the credits of the first year of study.
 - Third year of study after obtaining at least 70% of the credits of the second year of study.
 - Fourth year of study after obtaining at least 70% of credits of the third year of study.
- (ii) The degree is conferred when all prescribed modules have been passed.

IT.14 INFORMATION TECHNOLOGY SPECIAL (Code: 02180004)

Programme organiser:

Mrs D Taljaard, Information Technology Building, Room 5-82.2, Tel: 012 420 4095, e-mail: dawn.taljaard@up.ac.za

Admission requirements for candidates with a senior certificate

Candidates in possession of the following qualifications will be admitted to this programme:

- A minimum M-score of 12 in the Grade 12 examination
 and
- A Grade 12 certificate with university endorsement and
- at least 40%(E) for Mathematics at higher grade or at least 50%(D) for Mathematics at standard grade.

A candidate who does not comply with the requirements may do an admissions test and will be considered on the grounds of the results.

The Dean may, in conjunction with the Chairperson of the School of Information Technology, consider admission to this programme on account of extraordinary circumstances.

Admission requirements for candidates with a National Senior Certificate (from 2009)

To be admitted to any undergraduate field of study in the School of Information Technology, candidates who wrote the final Grade 12 exams for the National Senior Certificate must comply with the following admission requirements:

- 1. Obtained a NSC (University Admission); and
- 2. Written examination in Mathematics.

Duration of this introductory year

The duration is six months full-time study (77 credits). No extra modules may be taken and students may not be enrolled for IT Special for more than six months. Students are expected to pass all prescribed modules, with the exception of WTW 101 where a pass mark as promotion mark will be accepted. Students may then apply for admission to any degree in the School of Information Technology for which he/she qualifies.

Six months study (minimum 77 credits)

Fundamental modules (University requirements – 10 credits)

Code	Module	Prerequisites	Credits
Passing of an exemption examination in CIL 111 or			
CIL 111	Computer Literacy		4
Passing of an exemption examination in Academic Literacy or			
EOT 110	Academic Literacy		6

Core modules (minimum 67 credits)

Code	Module	Prerequisites	Credits
COS 151	Introduction to Computer Science		8
COS 130	Introduction to Programming		16
INF 153	Informatics		5

INL 111	Information Science		6
INL 112	Information Science		6
OBS 110	Business Management		10
	or		
OBS 113	Entrepreneurship		10
WTW 101	Mathematics	Mathematics HG (E), SG (D)	16
	or		
WTW 114	Calculus	Mathematics HG (D)	16

POSTGRADUATE PROGRAMMES IN INFORMATION TECHNOLOGY

IT.15 MASTER OF INFORMATION TECHNOLOGY (Coursework) (Code 02250082)

Programme organiser:

Mrs D Taljaard, Information Technology Building, Room 5-82.2, Tel: 012 420 4095, e-mail: dawn.taljaard@up.ac.za

This degree programme is only offered in English.

(a) Admission

- (i) Subject to the stipulations of Gen. Reg. G.1.3, G.30 and G.62, an appropriate bachelor's degree is a requirement for admission; and
- A pass mark in Mathematics at grade 12 (matriculation) level or another qualification in Mathematics, Statistics or Mathematical Statistics, which the Chairperson of the School considers to be sufficient; and
- (iii) Sufficient appropriate practical experience in the technology field in the opinion of the Chairperson of the School.
- (iv) The Chairperson of the School may impose additional requirements for admission. In particular, this will apply to candidates with insufficient academic background in Information Technology.
- (v) Selection of candidates will take place.
- (vi) The result of the selection is final and no correspondence will be entered into.

(b) Duration

A minimum of two years' part-time study. The M.IT degree must be completed in a maximum of three years. A student will have to apply with the Dean of Engineering, Built Environment and Information Technology if he/she needs more than three years to complete the degree.

(c) Conferment of the degree

The Master's degree in Information Technology is conferred on a student who successfully completes 240 credits.

Mini-dissertation	120 credits
Core module	96 credits
Elective modules	24 credits

(d) Pass requirements

At least 50% has to be obtained in the mini-dissertation as well as in the prescribed course modoles.

(e) Degree with distinction

The degree is conferred with distinction on students who have a weighted average final mark of at least 75%.

(f) Curriculum

The curriculum is determined in consultation with the programme coordinator.

IT.16 DOCTOR OF PHILOSOPHY IN INFORMATION TECHNOLOGY (Code 02260593)

Also consult General Regulations G.45 to G.62.

- (a) Subject to the stipulations of Regulations G.45 and G.62, no candidate is admitted to doctoral studies unless he/she holds an appropriate master's degree.
- (b) Unless the Dean, on the recommendation of the Chairperson of the School, decides otherwise, the PhD degree is conferred on the basis of a thesis and an examination on the thesis.
- (c) Unless the Senate, on the recommendation of the supervisor, decides otherwise, a student, before or on submission of a thesis, must submit proof of submission of an article issued by an accredited journal, to the Head: Student Administration. The draft or submitted article, as the case may be, should be based on the research that the student has conducted for the thesis and be approved by the supervisor if the supervisor is not a co-author. The supervisor shall be responsible for ensuring that the paper is taken through all the processes of revision and resubmission, as may be necessary. Conferment of the degree may be made subject to compliance with the stipulations of this regulation.
- (d) The student must provide proof by means of his or her work, thesis and examination of advanced original research and/or creative work which makes a real and substantial contribution to the relevant field of research.

IT.17 CURRICULUM FOR BCOM WITH SPECIALISATION IN INFORMATICS (Code 07130172)

The Faculty of Economic and Management Sciences confers this degree.

Package coordinator:

Prof C de Villiers, IT 5-78, Tel: 012 420 3085, e-mail: cdevill@hakuna.up.ac.za

Total credits required: 470

Admission requirements for candidates with a senior certificate

A grade 12 certificate with matriculation exemption; and

(a) a minimum M-score of 15 in the final Grade 12 examinations; and

- (b) a final mark of at least 50%(D) in Mathematics higher grade or 60%(C) standard grade in the Grade 12 examinations; **OR**
- (c) at least 40%(E) in Mathematics higher grade or 50%(D) standard grade and 60%(C) in Computer Studies higher grade or 70%(B) standard grade in the final Grade 12 examinations.

This programme is defined as the application of modern information systems in organisations, both private and public. The student will have a graduate-level knowledge of the analysis, design and implementation of information systems, databases, operating systems, networks and information management. In addition, the student will have the competence to develop a complete information system to support organisational functions. The holder of this qualification has the skills to advise organisations in empowering and enhancing the quality of work life of the individual workers through the application of information technology.

	Year Level 1	Year Level 2	Year Level 3
	Credits	Credits	Credits
Fundamental modules	20	10	0
Core modules	106	95	75
Elective modules	20	64	80
Total	146	169	155

Learning programme

YEAR	YEAR LEVEL:		2	3	
Funda	amental modules (Compulsory)				
CIL	Computer Literacy ¤	111, 121			
BPE	Business Ethics		251		
EOT	Academic Literacy §	110, 120			

§ If a student does *NOT* pass the academic literacy test at the beginning of the year, he/she must register for and pass EOT 110 and EOT 120 and will then receive 12 credits. On the other hand, a student who passes the academic literacy test, will be exempted from EOT 110 and EOT 120 and has to pass a credit value of 12 of the following modules:

ENG	English	110, 120	
EOT	English	161, 163	
	-	162, 164	

Core modules (Compulsory)

INF	Informatics ^{(†); (2)}	112, 163 153, 164 154	214, 261 225 271, 272	315, 324 354, 370
FRK	Financial Accounting ⁽³⁾	111, 121		
INF	Informatics	181 ⁽⁴⁾		
EKN	Economics	110, 120		
BER	Business Law		210, 220	
STK	Statistics	110, 120		
KOB	Communication Management	184		

Electiv	e modules			
OBS	Business Management	110, 120	210, 220	310 ⁽⁶⁾ , 320
EKN	Economics		214, 224	310, 320
				314
FRK	Financial Accounting		211 ⁽⁵⁾ , 221 ⁽⁵⁾	311 ⁽⁵⁾ , 321 ⁽⁵⁾
BEL	Taxation		220 ⁽⁵⁾	
STK	Statistics		210, 220	310, 320
IOK	Internal Auditing		211, 221	311, 321
KOB	Communication Management		210, 220	310, 320
FBS	Financial Management		210, 220	310, 320
BEM	Marketing Management	110, 121	211, 221	311, 321
BDO	Industrial and Organizational	110, 120	219, 229	319 ⁽⁶⁾ , 329 ⁽⁶⁾
	Psychology		271, 272	371, 372
PAD	Public Administration	110, 120	210, 220	310, 320
OBS	Entrepreneurship	113, 123	213, 223	313, 323
COS	Computer Science		212 ⁽⁷⁾ , 213 ⁽⁷⁾	314, 333
			283 ⁽⁷⁾ , 284 ⁽⁷⁾	341, 343
INL	Information Science		211, 221,	311 and
			212 and at	at least one
			least one of	of INY 311,
			INY 221,	312; INL 321
1			223, 224	and at least
				one of
				INY 323,
				324, 329

Elective modules

Elective modules can only be taken if they can be accommodated in the class, test and examination timetables.

Note: See Regulation C.2 for prerequisites of all modules.

- m Students may write the exemption examination for CIL 111 only once.
- (1) Only candidates who meet the entrance requirements for the compulsory modules Informatics 153, 154, 163, 164 and 271, 272 i.e. a minimum of 50% in Mathematics (higher grade) in Grade 12, will be admitted to the BCom degree with specialisation in Informatics. Admission to the BCom degree with specialisation in Informatics can also be obtained by complying with the requirements as set out in Reg 1.2(g) of the section **Requirements for specific modules**, in which case the Dean, on the recommendation of the head of department, may allow a student to register simultaneously for Informatics 153, 154, 163, 164 and 271, 272.
- (2) In addition to the provisions of the footnote⁽¹⁾ above, candidates who have passed Grade 12 Mathematics with at least 40% Higher Grade or 50% Standard Grade and have passed Informatics 112, may, if their academic performance merits it, be allowed by the Dean, on recommendation of the head of the department, to register for the BCom degree programme with specialisation in Informatics, and to register simultaneously for Informatics 153, 154, 163, 164, 271, 272.
- ⁽³⁾ See Reg 1.2 (d).
- ⁽⁴⁾ INF 181 is a 14-week module that is offered in the first as well as the second semester.
- ⁽⁵⁾ Taxation 220 (BEL 220) is compulsory on the 200-level, if Financial Accounting 311, 321 (FRK 311, 321) are chosen as a major.

- ⁽⁶⁾ OBS 310 and BDO 319, 329 may not be included in the same curriculum for degree purposes.
- ⁽⁷⁾ Students must take COS 110 as an extra module in their first year to be able to take this elective. Students must also comply with the regulations and prerequisites for Computer Science as stipulated in IT. 2 (e).

Specialisation modules: INF 315, 324, 370 and 354.

II. BACCALAUREUS HONORES DEGREES

See General Regulations G.16 to G.29.

IT.18 BCOM(HONS)

(a) General

The Dean has the right of authorisation regarding matters not provided for in the General Regulations or in the Faculty regulations.

(b) Requirements for admission

- (i) Subject to the stipulations of General Regulations G.1.3 and G.62, a candidate is not admitted to the study for the BCom(Hons) or the BAdmin(Hons) degree unless he is in possession of a BCom or a BAdmin degree respectively.
- (ii) Preparatory work for the honours degree, as determined by each head of department, with an assessment thereof, is compulsory for all candidates. Candidates can be exempted from this requirement if they pass an exemption assessment as determined by the head of the department concerned.
- (iii) A candidate may be refused admission to an honours degree by the Head of the Department if he or she does not comply with the level of competence required in the subject as determined by the department – with the proviso that a candidate, who fails to comply with the level of competence required, may be admitted if additional study assignments, as agreed upon, are completed and/or examinations are written.
- (iv) A candidate, who is refused admission to an honours degree, may request that the dean reconsider his or her application for admission in terms of the set procedures.
- (v) The head of department concerned may set additional admission requirements.
- (vi) In respect of all BCom(Hons) fields of specialisation:
 - Mathematics at Grade 12 level or another qualification in Mathematics, Statistics or Mathematical Statistics deemed adequate by the head of department.
 - 2. Adequate knowledge of Management, Financial and Economic Sciences as well as Statistics as determined by the head of the department concerned in consultation with the Dean.
- (vii) In addition to any other requirements, the following prerequisites apply to the BCom(Hons) and the BAdmin(Hons) degree programmes with specialisation in Economics:
 - Mathematics as stipulated in para (iv) 1;
 - Statistics 210, 220 or equivalent.

(c) Field of study

BCom(Hons) degree Informatics (07240172)

(d) Duration of study

Subject to the provisions of General Regulation G.18.3, a full-time student must complete his or her studies for an honours degree within two academic years (four semesters) and an after-hours student within three academic years (six semesters) after first registration for the degree. However, the Dean may, on the recommendation of the head of the department concerned, extend the period of study in both cases by a maximum of two semesters. A student who does not qualify for the degree within three years (six semesters) or four years (eight semesters) respectively after first registration, must repeat the prescribed modules.

(e) Curricula

- (i) A student qualifies for the honours degree by obtaining at least EIGHT semester modules or the equivalent thereof.
- (ii) A student compiles his/her curriculum in consultation with the head of department concerned.
- Details of modules, credit values and syllabi are available, on request, from the relevant head of department.

(f) Examination

(i) The subminimum required in the examination in each module is 50%, except in modules presented by the departments of Accounting, Marketing and Communication Management, Business Management, Statistics, Financial Management, Taxation, Tourism Management and School of Public Management, Auditing and Administration in which a subminimum of 40% must be obtained. However, all departments set a final mark of at least 50% as the pass mark for a module.

A minimum pass mark or 50% is required for an essay.

- (ii) Subject to the provisions of General Regulation G.26, a head of a department determines, in consultation with the Dean:
 - (aa) when the honours examinations in his department will take place, provided that:
 - honours examinations which do not take place before the end of the academic year, must take place not later than 14 January of the following year, and all examination results must be submitted to Student Administration by 24 January;
 - (2) honours examinations which do not take place before the end of the first semester, may take place not later than 18 July, and all examination results must be submitted to Student Administration on or before 25 July;
 - (bb) whether a student will be admitted to a supplementary examination: provided that a supplementary examination is granted only once in a maximum of two prescribed semester modules or in one year module.
 NB: For the purposes or this stipulation, the phrase "not sit an examination more than twice in the same subject" as it appears in General Regulation G.18.2, implies that a student may not be admitted to an examination in a module, including a supplementary examination, more than three times.

(cc) the manner in which essays are prepared and examined in his department.

NB: Full details are published in each department's postgraduate information brochure that is available from the head of the department concerned. The minimum pass mark for an essay is 50%. The stipulations regarding pass requirements for dissertations in General Regulation G.60.2.1.2(a), apply mutatis mutandis to essays.

- (iii) Subject to the provisions of General Regulation G.12.2.1.3, the subminimum required in subdivisions of modules is published in the postgraduate information brochure that is available from the head of department concerned.
- (iv) To obtain the degree with distinction, a student must obtain an average of at least 75% in the prescribed modules.

III. MASTER'S DEGREES

See General Regulations G.30 to G.44 and G.57 to G.62.

The Dean has the right of authorisation regarding matters not provided for in the General Regulations or the Faculty regulations.

IT.19 MCOM

(a) Requirements for admission

- (i) Subject to the provisions of General Regulations G.1.3 and G.62, the related B(Hons) degree is a requirement for admission to master's degree study.
- (ii) The requirement of an exemption assessment on preparatory work, as determined by the head of the department concerned, should be complied with.
- (iii) Adequate knowledge of Management, Financial and Economic Sciences as well as Statistics as determined by the head of the department concerned in consultation with the Dean.
- (iv) The head of the department concerned may set additional admission requirements.
- (v) For MCom degrees (with the exception of the field of specialisation Labour Relations Management) as well as for the MAdmin degree with specialisation in Economics: Mathematics at Grade 12 level or another qualification in Mathematics, Statistics or Mathematical Statistics deemed adequate by the head of department.

(b) Field of study

MCom degree

Informatics (07250172) (07250173)

Dissertation Coursework

(c) Duration of study

The degree programme must be completed within four years after the first registration for the degree, provided that the Dean may, in exceptional cases, and on the recommendation of the head of department concerned, approve a fixed limited extension of the period of study.

(d) Dissertations, curricula and module credits

- (i) A dissertation must be submitted on a topic from the field of study chosen for the honours degree. However, the Dean may, on the recommendation of the head of department concerned, approve the substitution of the required dissertation by the successful completion of a prescribed number of module credits and an essay.
- Information regarding modules, credits and syllabi are available, on request, from the head of the department concerned.

(e) Pass requirements

- (i) The minimum pass mark for both a dissertation and an essay is 50%. The provisions regarding pass requirements for dissertations, contained in General Regulation G.60.2.1.2(a), apply mutatis mutandis to essays.
- (ii) A pass mark of at least 50% is required in the examination of each module.
- (iii) In order to obtain the degree with distinction, at least 75% must be obtained for the dissertation or an average of at least 75% in the examinations and for the essay.

DEGREE PROGRAMMES IN INFORMATION SCIENCE

IT.20 BACCALAUREUS INFORMATIONIS SCIENTIAE (BIS)

Programme manager:

Prof TJD Bothma, IT 6-73, Tel: 012 420 2293, e-mail: theo.bothma@up.ac.za

Renewal of registration

Students registered for a three-year degree must complete the degree within five years. Students must obtain at least 60 credits during their first year of registration and at least 80 credits during each subsequent year to be able to be readmitted to the Faculty.

IT.20.1 BIS with specialisation in LIBRARY SCIENCE (Code 12131003)

The increasing amount of information available and growing information needs have necessitated trained information intermediaries to facilitate the bringing together of users and their required information. Students are trained as information intermediaries to gather, organise and make information available for use in various environments.

Package organiser:

Prof I Fourie, IT 6-65, Tel: 012 420 5216, e-mail: ina.fourie@up.ac.za

Admission requirements for candidates with a senior certificate

A grade 12 certificate with university exemption; and

- at least 50%(D) at higher grade in Afrikaans or English or an African language; and
- an M-score of at least 12.

Admission requirements for candidates with a National Senior Certificate (from 2009)

To be admitted to any undergraduate field of study in the School of Information Technology, candidates who wrote the final Grade 12 exams for the National Senior Certificate must comply with the following admission requirements:

1. Obtained a NSC (University Admission); and

2. Written examinations in either Afrikaans or English or an African Language.

Minimum credits required: 447	Year-level 1	Year-level 2	Year-level 3	Total
Fundamental modules	32	8	0	40
Core modules	68	112	135	315
Elective modules	20*	32*	40*	92*
Total	120	152	175	447*

Note:

* Because credits are not calculated in the same way in all faculties, students should take note that the total amount of credits required for this package must be at least 447. Total credits may be more depending on the choice of elective modules.

FIRST YEAR OF STUDY

Fundamental modules for year-level 1 (32 credits)

Code	Module	Prerequisites	Credits	Period	
Passing of a	Passing of an exemption examination in CIL 111 or				
CIL 111	Computer Literacy and		4	S1	
CIL 121	Information Literacy		4	S2	
EAG 151	Academic Skills		6	Q1	
Passing of a	Passing of an exemption examination in Academic Literacy or				
EOT 110	Academic Literacy		6	S1	
EOT 120	Academic Literacy		6	S2	
RES 151	Research		6	Q3	

Core modules for year-level 1 (68 credits)

Code	Module	Prerequisites	Credits	
BIB 111	Library Science: Introduction to		6	Q1
	information service provision			
BIB 112	Library Science: Reading and		6	Q2
	reading practices			
BIB 121	Library Science: Introduction to the		6	Q3
	use of information sources			
BIB 122	Library Science: Library and		6	Q4
	information services			
INL 111	Information Science: Introduction to		6	Q1
	Information Science			
INL 112	Information Science: Representation		6	Q2
	and organization of information			
INL 121	Information Science: Information		6	Q3
	Technology			
INL 122	Information Science:		6	Q4
	Communication media			
Select one	of the following subjects up to year-lev	el 2		
OBS 110	Business Management and		10	S1
OBS 120	Business Management	OBS 110GS	10	S2
or	_			
OBS 113	Entrepreneurship and		10	S1
OBS 123	Entrepreneurship	OBS 110, 113GS	10	S2
		or LP		

Elective modules for year-level 1 (20 credits*)

Code	Module	Prerequisites	Credits	Period	
Select a subject (up to year-level three) in consultation with the package organiser.					
Note:					

* Because credits are not calculated in the same way in all faculties, students should take note that the total amount of credits required for this subject must be at least 20.

SECOND YEAR OF STUDY

Fundamental module for year-level 2 (8 credits)

Code	Module	Prerequisites	Credits	Period
+JCP 202	Community-based Project		8	^

Note:

+ Students who register for the first year during 2006 will be required to successfully complete the above module as part of the requirements for the bachelor's degree. A student may register for the module during the second or third year of study in accordance with departmental requirements.

^ Consult the department at the beginning of the year.

Core modules for year-level 2 (112 credits)

Code	Module	Prerequisites	Credits	Period
BIB 211	Library Science: User studies		10	Q1
BIB 212	Library Science: Information and the		10	Q2
	law			
BIB 214	Library Science: Cataloguing		10	Q3
BIB 222	Library Science: Information and		10	Q4
	reference services			
INL 211	Information Science: Information	CIL 121	10	Q1
	retrieval			
INL 212	Information Science: Information	INL 211†	10	Q2
	seeking			
INL 221	Information Science:		10	Q3
	Infopreneurship and information			
	ethics			
And select	one of the following modules			
INY 221	Information Science: System		10	Q4
	development			
INY 223	Information Science:		10	Q4
	Communication media			
INY 224	Information Science: Applied		10	Q4
	information ethics			
Select one	of the following subjects (the same sub	pject as selected on	year-level 1))
OBS 210	Business Management	OBS 110	16	S1
and				
OBS 220	Business Management		16	S2
	or			
OBS 213	Entrepreneurship	OBS 113	16	S1
and				
OBS 223	Entrepreneurship		16	S2

Elective modules for year-level 2 (32 credits*)

Code	Module	Prerequisites	Credits	Period	
Continue with the elective module on year level 2 as selected for year-level 1. Consult the					
package organiser.					

Note:

* Because credits are not calculated in the same way in all faculties, students should take note that the total amount of credits required for this module must be at least 32. † Indicates that the module INL 211 must be passed before or be taken concurrently with INL 212.

THIRD YEAR OF STUDY

Core modules for year-level 3 (135 credits)

Code	Module	Prerequisites	Credits	Period
BIB 316	Library Science: Subject cataloguing		15	Q1
BIB 312	Library Science: Advanced		15	Q2
	cataloguing			
BIB 321	Library Science: Information in a		15	Q3
	digital environment			
BIB 322	Library Science: Management of a		15	Q4
	digital information service			
BIB 324^	Library Science: Practical		15	Q4^
INL 311	Information Science: Publication		15	Q1
	formats in a digital environment			
INL 321	Information Science: Information		15	Q3
	Management			
And select d	one of the following modules			
INY 311	Multimedia		15	Q2
INY 312	Information for development		15	Q2
INY 318	Information economics		15	Q2
And select d	one of the following modules			
INY 323	Information: Socio-political context		15	Q4
INY 324	Multimedia		15	Q4
INY 329	Advanced Information Retrieval	INL 211 and INL 212	15	Q4

Note:

^ Consult the package organiser in Quarter 1 concerning BIB 324.

Elective modules for year-level 3 (40 credits*)

Code	Module	Prerequisites	Credits	Period		
Continue with the elective module on year-level 3 as selected for year-level 1 and 2. Consult						
the package	the package organiser.					

Note:

* Because credits are not calculated in the same way in all faculties, students should take note that the total amount of credits required for this module must be at least 40.

IT.20.2 BIS with specialisation in INFORMATION SCIENCE (Code 12131004)

Information is required by most people in order to complete their daily tasks. This package is designed to train students in the management, retrieval and organization of information, as well as adding value to and packaging and distribution of information, with a further focus on the use of information technology and the processing of information products.

Package organiser:

Mrs M Holmner, IT 6-63, Tel: 012 420 5215, e-mail: marlene.holmner@up.ac.za

Admission requirements for candidates with a senior certificate

A grade 12 certificate with university exemption, and

- at least 50%(D) at higher grade in Afrikaans or English or an African language; and
- an M-score of at least 15*; and
- at least 50%(D) in Mathematics at higher grade; or 60%(C) in Mathematics at standard grade; or at least 40%(E) in Mathematics at higher grade or 50%(D) at standard grade and 60%(C) in Computer Studies at higher grade or 70%(B) at standard grade in the

final Grade 12 examination*.

* If the M-score and/or Mathematics prerequisites are not met, application can be made to register for Information Technology (IT) Special.

Admission requirements for candidates with a National Senior Certificate (from 2009)

To be admitted to any undergraduate field of study in the School of Information Technology, candidates who wrote the final Grade 12 exams for the National Senior Certificate must comply with the following admission requirements:

- 1. Obtained a NSC (University Admission); and
- 2. Written examinations in both Mathematics and Information Technology.
- 3. Written examinations in either Afrikaans or English or an African Language.

Minimum credits required: 401	Year-level 1	Year-level 2	Year-level 3	Total
Fundamental modules	32	8	0	40
Core modules	74	135*	60	269*
Elective modules	20*	32*	40*	92*
Total	126	175*	100	401*

Note:

* Because credits are not calculated in the same way in all faculties, students should take note that the total amount of credits required for this package must be at least 401. Total credits may be more depending on the choice of elective modules.

FIRST YEAR OF STUDY

Fundamental modules for year-level 1 (32 credits)

Code	Module	Prerequisites	Credits	Period	
Passing of a	Passing of an exemption examination in CIL 111 or				
CIL 111	Computer Literacy and		4	S1	
CIL 121	Information Literacy		4	S2	

EAG 151	Academic Skills		6	Q1
Passing of an exemption examination in Academic Literacy or				
EOT 110	Academic Literacy		6	S1
EOT 120	Academic Literacy		6	S2
RES 151	Research		6	Q3

Core modules for year-level 1 (74 credits)

Code	Module	Prerequisites	Credits	Period
INL 111	Information Science: Introduction to Information Science		6	Q1
INL 112	Information Science: Representation and organization of information		6	Q2
INL 121	Information Science: Information Technology		6	Q3
INL 122	Information Science: Communication media		6	Q4
INF 112	Informatics	IT.2(c)	10	S1
INF 153	Informatics	IT.2(g)	5	S1
INF 154	Informatics	IT.2(g)	5	S1
INF 163	Informatics	INF 153 GS	5	S2
INF 164	Informatics	INF 154 GS	5	S2
Select one of	of the following subjects up to year-l	evel 2		
EKN 110 and	Economics		10	S1
EKN 120	Economics or	EKN 110 or 113; Math HG E or SG D or STK 113GS	10	S2
OBS 110 and	Business Management		10	S1
OBS 120	Business Management or	OBS 110	10	S2
OBS 113 and	Entrepreneurship		10	S1
OBS 123	Entrepreneurship	OBS 110, 113GS or LP	10	S2

Elective modules for year-level 1 (20 credits*)

Code	Module	Prerequisites	Credits	Period
Select a module (up to year-level three) in consultation with the package organiser.				
Note:				

* Because credits are not calculated in the same way in all faculties, students should take note that the total amount of credits required for this module must be at least 20.

SECOND YEAR OF STUDY

Fundamental module for year-level 2 (8 credits)

Code	Module	Prerequisites	Credits	Period
+JCP 202	Community-based Project	t	8	^

Note:

+ Students who register for the first year during 2006 will be required to successfully

complete the above module as part of the requirements for the bachelor's degree. A student may register for the module during the second or third year of study in accordance with departmental requirements.

^ Consult the department at the beginning of the year.

	Iles for year-level 2 (135 credits*)			
Code	Module	Prerequisites	Credits	Period
INL 211	Information Science: Information retrieval	CIL 121	10	Q1
INL 212	Information Science: Information seeking	INL 211†	10	Q2
INL 221	Information Science: Infopreneurship and information ethics		10	Q3
And select	one of the following modules			
INY 221	Information Science: System development		10	Q4
INY 223	Information Science: Communication media		10	Q4
INY 224	Information Science: Applied information ethics		10	Q4
INF 214	Informatics	CIL 111 – 121 (previously CIL 171 – 174)	14	S1
INF 261	Informatics	INF 214 GS	7	S2
INF 225	Informatics	CIL 111 – 121 (previously CIL 171 – 174)	14	S2
INF 271	Informatics	CIL 111 – 121 (previously CIL 171 – 174) INF 163, 164 IT.2(g)	14	Year
INF 272	Informatics	CIL 111 – 121 (previously CIL 171 – 174) INF 163, 164 IT.2(g)	14	Year
Select one	of the following subjects (the same	subject as selected on	year-level 1)
EKN	Select any year-level 2 Economics modules for a minimum of 32 credits or	Consult the department	32	
OBS 210 and	Business Management	OBS 110	16	S1
OBS 220	Business Management or		16	S2
OBS 213 and	Entrepreneurship	OBS 113	16	S1
OBS 223	Entrepreneurship		16	S2

Core modules for year-level 2 (135 credits*)

Elective modules for year-level 2 (32 credits*)

Code	Module	Prerequisites	Credits	Period
Continue with the elective module on year-level 2 as selected for year-level 1. Consult the				
package org	aniser.	-		

Note:

* Because credits are not calculated in the same way in all faculties, students should take note that the total amount of credits required for this module must be at least 32. † Indicates that the module INL 211 must be passed before or be taken concurrently with INL 212.

THIRD YEAR OF STUDY

Core modules for year-level 3 (60 credits)

Code	Module	Prerequisites	Credits	Period
INL 311	Information Science: Publication		15	Q1
	formats in a digital environment			
INL 321	Information Science: Information		15	Q3
	Management			
And select a	ne of the following modules			
INY 311	Multimedia		15	Q2
INY 312	Information for development		15	Q2
INY 318	Information economics		15	Q2
And select a	ne of the following modules			
INY 323	Information: Socio-political		15	Q4
	context			
INY 324	Multimedia		15	Q4
INY 329	Advanced Information Retrieval	INL 211 and INL 212	15	Q4

Elective modules for year-level 3 (40 credits*)

CodeModulePrerequisitesCreditsPeriodContinue with the elective module on year level 3 as selected for year-level 1 and 2. Consult
the package organiser.Selected for year-level 1 and 2. Consult

Note:

* Because credits are not calculated in the same way in all faculties, students should take note that the total amount of credits required for this module must be at least 40.

IT.20.3 BIS with specialisation in MULTIMEDIA (Code 12131005)

Modern information technology offers the possibility of information products being designed and created comprising various types of media over and above the traditional text medium. Information technology is thus converging various previously separate traditional media. There is not a single discipline that handles the combination of information products. The Multimedia qualification in the Department of Information Science addresses this shortcoming. Any type of institution in all economic spheres, including government, may profit from a multimedia approach to information design, organization and retrieval.

Multimedia documents include text, graphics, sound, video and animation. The purpose of this qualification is to enable students to understand the necessary concepts to build multimedia products and maintain the products. This programme is therefore a combina-

tion of theory and practice.

The explosion of the Web, as well as the exponential growth and power of information technology requires the introduction of this degree following international trends. The qualification is a new field of study not offered at other local universities.

Programme manager:

Prof TJD Bothma, IT 6-73, Tel: 012 420 2293, e-mail: theo.bothma@up.ac.za

Admission requirements for candidates with a senior certificate

A grade 12 certificate with university exemption; and

- at least 50%(D) at higher grade in Afrikaans or English or an African language; and
- an M-score of at least 15*; and
- at least 50%(D) in Mathematics at higher grade*; and
- at least 50%(D) in Computer Studies at higher grade*.

A candidate with a minimum M-score of 18 and at least 60%(C) in Mathematics HG, who does not comply with the Computer Studies prerequisite, can obtain special permission from the Head of the Information Science Department to register for this degree.

* If the M-score, Mathematics and/or Computer prerequisites are not met, application can be made to register for Information Technology (IT) Special.

Admission requirements for candidates with a National Senior Certificate (from 2009)

To be admitted to any undergraduate field of study in the School of Information Technology, candidates who wrote the final Grade 12 exams for the National Senior Certificate must comply with the following admission requirements:

- 1. Obtained a NSC (University Admission); and
- 2. Written examinations in either Afrikaans or English or an African Language.
- 3. Written examinations in both Mathematics and Information Technology.

Minimum credits required: 594	Year-level 1	Year-level 2	Year-level 3	Total
Fundamental modules	32	8	0	40
Core modules	156	160	102	418
Elective modules	24	40	72	136
Total	212	208	174	594*

Note:

* Because credits are not calculated in the same way in all faculties, students should take note that the total amount of credits required for this package must be at least 594.

FIRST YEAR OF STUDY

Fundamental modules for year-level 1 (32 credits)

Code	Module	Prerequisites	Credits	Period		
Passing of a	Passing of an exemption examination in CIL 111 or					
CIL 111	Computer Literacy and		4	S1		
CIL 121	Information Literacy		4	S2		
EAG 151	Academic Skills		6	Q1		
Passing of a	an exemption examination in Academi	c Literacy or				
EOT 110	Academic Literacy		6	S1		
EOT 120	Academic Literacy		6	S2		
RES 151	Research		6	Q3		

Code	Module	Prerequisites	Credits	Period
INL 111	Information Science: Introduction to Information Science		6	Q1
INL 112	Information Science: Representation and organization of information		6	Q2
INL 121	Information Science: Information Technology		6	Q3
INL 122	Information Science: Communication media		6	Q4
INY 171	Multimedia: Mark-up languages		6	S1
INY 172	Multimedia: Multimedia for the Web		6	S2
COS 110	Program Design: Introduction	IT.2(e)	16	S1
COS 151	Introduction to Computer Science		8	S1
COS 140	Netcentric Computer Systems	COS 110 or (COS 130/COS 131/ EPE 111/EPE 112)	16	S2
EOS 284	Computer Architecture	COS 110 or (COS 130/COS 131/ EPE 111/EPE 112)	12	S2
VIO 102	Visual Design		24	Year
VKK 110	Introduction to Visual Culture		12	S1
KGK 120	Introduction to Design History		12	S2
Select one	of the following subjects			
OBS 110 and	Business Management		10	S1
OBS 120	Business Management or	OBS 110	10	S2
OBS 113 and	Entrepreneurship		10	S1
OBS 123	Entrepreneurship	OBS 110, 113GS or LP	10	S2

Core modules for year-level 1 (156 credits)

Elective modules for year-level 1 (24 credits)

Code	Module	Prerequisites	Credits	Period
	Select a language from the		24	
	language groups 2 to 12, e.g.			
	Afrikaans, English, German, French			
	or an African Language up to year			
	level 2.			
	Select modules to the value of 24 credits on year-level 1 from the selected language.			
	Also see the alphabetical list at the back of yearbook of the Faculty of			
	5			
	Humanities when selecting the language modules.			
	language mounes.			

SECOND YEAR OF STUDY

Fundamental module for year-level 2 (8 credits)

Code	Module	Prerequisites	Credits	Period
+JCP 202	Community-based Project		8	^
		· · · ·		

Note:

+ Students who register for the first year during 2006 will be required to successfully complete the above module as part of the requirements for the bachelor's degree. A student may register for the module during the second or third year of study in accordance with departmental requirements.

^ Consult the department at the beginning of the year.

Core modules for year-level 2 (160 credits)

Code	Module	Prerequisites	Credits	Period
INY 215	Multimedia: System		10	Q1
	Development			
INY 216	Multimedia		10	Q2
INY 225	Multimedia		10	Q3
INY 226	Multimedia: Editorial handling of		10	Q4
	Information products			
INY 271	Multimedia: Advanced mark-up		10	S1
	languages (1)			
INY 272	Multimedia: Advanced mark-up		10	S2
	languages (2)			
COS 212	Data Structures and Algorithms	COS 214GS	16	S2
COS 214	Design Patterns	COS 110 or [(COS	16	S1
	-	130/COS 131/EPE		
		111/EPE 112) and		
		COS 140]		
COS 222	Operating Systems	COS 110	16	S1
COS 226	Concurrent Systems	COS 110	16	S2
VIO 202	Visual design	VIO 102	40	Year

Elective modules for year-level 2 (40 credits)

Code	Module	Prerequisites	Credits	Period
	Continue with the same language as selected on year- level 1 and select modules on year-level 2 to the value of 40 credits. You may substitute 20 credits for LCC 220		40	
	Also see the alphabetical list at the back of yearbook of the <i>Faculty of Humanities</i> when selecting the language modules.			

THIRD YEAR OF STUDY

Core modules for year-level 3 (102 credits)

Code	Module	Prerequisites	Credits	Period	
INY 300	Multimedia Project		15	Year	
INY 315	Advanced Multimedia		15	Q1	
INY 316	Multimedia: Human-computer		15	Q2	
	interaction				
INY 325	Multimedia: Interface design		15	Q3	
INY 326	Multimedia: Mark-up languages		15	Q4	
COS 301	Software Engineering	COS 212	27	Year	

Elective modules for year-level 3 (72 credits*)

Code	Module	Prerequisites	Credits	Period		
Select at lea	ast four of the following semeste	r modules:				
Note: The s	Note: The semester in which these modules are offered may vary from year to year					
COS 314	Artificial Intelligence	COS 214	18	S1		
COS 326	Database Systems	INF 214 or LP	18	S2		
COS 332	Computer Networks	COS 140	18	S1		
COS 333	Programming Languages	COS 110	18	S2		
COS 341	Compiler Construction	COS 212	18	S1		
COS 343	Trends in IT	COS 110 or [COS	18	S2		
		130/131 and COS				
		140]				
COS 344	Computer Graphics	COS 214 and WTW	18	S2		
		126 or LP				
EMK 310	Microprocessors	ERS 220GS or LP	16	S1		

IT.20.4 BIS with specialisation in PUBLISHING (Code 12131006)

This package contextualises the South African publishing industry, with specific application to book publishing and corporate publishing. The objectives are to equip students with background knowledge on the industry, role-players and trends as well as with specific skills linked to the publishing value-chain. These skills include: the commissioning of manuscripts aimed at specific markets; the management of the design, reproduction and printing phase; copy-editing and proofreading; financial and marketing management. Students are enabled to act as responsible information intermediaries who can add value to publications during the various phases of the publishing process.

Package organiser:

Dr F Galloway, IT 6-34, Tel: 012 420 2426, e-mail: francis.galloway@up.ac.za

Admission requirements for candidates with a senior certificate

- A grade 12 certificate with university exemption; and
- at least 60%(C) at higher grade in Afrikaans or English or an African language; and
- an M-score of at least 14.

Admission requirements for candidates with a National Senior Certificate

To be admitted to any undergraduate field of study in the School of Information Technology, candidates who wrote the final Grade 12 exams for the National Senior

Certificate must comply with the following admission requirements:

- 1. Obtained a NSC (University Admission); and
- 2. Written examinations in either Afrikaans or English or an African Language.

Minimum credits required: 452	Year-level 1	Year-level 2	Year-level 3	Total
Fundamental modules	38	8	0	46
Core modules	80	127	75	282
Elective modules	24	40	60	124
Total	142	175	135	452*

Note:

* Because credits are not calculated in the same way in all faculties, students should take note that the total amount of credits required for this package must be at least 452.

FIRST YEAR OF STUDY

Fundamental modules for year-level 1 (38 credits)

Code	Module	Prerequisites	Credits	Period
Passing of a	an exemption examination in CIL 111			
CIL 111	Computer Literacy and		4	S1
CIL 121	Information Literacy		4	S2
EAG 151	Academic Skills		6	Q1
ENG 158	English		6	Q4
Passing of a	an exemption examination in Academic	c Literacy or		
EOT 110	Academic Literacy		6	S1
EOT 120	Academic Literacy		6	S2
RES 151	Research		6	Q3

Core modules for year-level 1 (80 credits)

Code	Module	Prerequisites	Credits	Period
BIB 111	Library Science: Introduction to		6	Q1
	information service provision			
BIB 121	Library Science: Introduction to the		6	Q3
	use of information sources			
INL 111	Information Science: Introduction to		6	Q1
	Information Science			
INL 112	Information Science: Representation		6	Q2
	and organization of information			
INL 121	Information Science: Information		6	Q3
	Technology			
INY 122	Publishing: An introduction to		6	Q4
	publishing			
VKK 110	Introduction to Visual Culture		12	S1
KGK 120	Introduction to Design History		12	S2
Select one	of the following subjects			
BEM 110	Marketing		10	S1
and				
BEM 121	Marketing		10	S2
	or			
OBS 110	Business Management		10	S1
and				

OBS 120	Business Management	OBS 110	10	S2
OBS 113 and	or Entrepreneurship		10	S1
OBS 123	Entrepreneurship	OBS 110, 113GS or LP	10	S2

Elective modules for year-level 1 (24 credits*)

Code	Module	Prerequisites	Credits	Period
-	Select a language up to year-		24	
I	level 3, from one of the language			
I	groups 2-12, e.g. Afrikaans,			
I	English, German, French or an			
l	African Language#.			
l	Select modules to the value of 24			
I	credits on year-level 1 of the			
1	selected language#			
l	Also see the alphabetical list at			
I	the back of yearbook of the			
1	Faculty of Humanities when			
	selecting the language modules.			
# Afrikaa	ns: Select any AFR and/or LCC modu	les on year-level 1 to t	he value of	24 credits

SECOND YEAR OF STUDY

Fundamental module for year-level 2 (8 credits)

Code	Module	Prerequisites	Credits	Period
+JCP 202	Community-based Project		8	^

Note:

+ Students who register for the first year during 2006 will be required to successfully complete the above module as part of the requirements for the bachelor's degree. A student may register for the module during the second or third year of study in accordance with departmental requirements.

^ Consult the department at the beginning of the year.

Core modules for year-level 2 (127 credits)

Code	Module	Prerequisites	Credits	Period
INL 211	Information Science: Information retrieval	CIL 121	10	Q1
INL 221	Information Science: Infopreneurship and information ethics		10	Q3
INY 213	Publishing: The visual and production dimensions of publishing		10	Q2
INY 222	Publishing: Editorial process and practice		10	Q4
INY 214	Publishing: Practical		15	S2
LCC 220	Document Design		20	S2

KOB 210	Communication Management	16	S1
KOB 220	Communication Management	16	S2
Select two	f the following modules		
VKK 256	Visual Communication: History of	10	Q1
	film		
VKK 255	Visual Communication: Gender	10	Q2
	ideology in visual culture		
VKK 259	Visual Communication: Type,	10	Q3
	image and communication		
VKK 258	Visual Communication: Visual	10	Q4
	identity and Branding		

Elective modules for year-level 2 (40 credits)

Code	Module	Prerequisites	Credits	Period
	Continue with the same language as selected on year-		40	
	level 1 up to year-level 3#			
	Select modules to the value of 40 credits on <u>year-level 2</u> of the selected language#			
	Also see the alphabetical list at the back of yearbook of the			
	Faculty of Humanities when			
	selecting the language modules.			

THIRD YEAR OF STUDY

Core modules for year-level 3 (75 credits)

Code	Module	Prerequisites	Credits	Period
INL 311	Information Science: Publication		15	Q1
	formats in a digital environment			
INL 321	Information Science: Information		15	Q3
	Management			
INY 322	Publishing: Commissioning		15	Q2
INY 319	Publishing: An introduction to		15	Q4
	publishing management			
INY 320	Publishing: Practical		15	S2

Elective modules for year-level 3 (60 credits*)

Module	Prerequisites	Credits	Period
Continue with the same language as selected on year- level 1 and 2 on year-level 3.		60	
Select modules to the value of 60 credits on <u>year-level</u> 3 of the selected language#			
	Continue with the same language as selected on year- level 1 and 2 on year-level 3. Select modules to the value of 60 credits on <u>year-level</u> 3 of the	Continue with the same language as selected on year- level 1 and 2 on year-level 3. Select modules to the value of 60 credits on <u>year-level</u> 3 of the	Continue with the same 60 language as selected on year- level 1 and 2 on year-level 3. 60 Select modules to the value of 60 credits on year-level 3 of the 60

Also see the alphabetical list at the back of yearbook of the <i>Faculty of Humanities</i> when selecting the language modules.				
# <u>Afrikaans</u> : AFR 358 is strongly recommended				
# African language: AFT 361 is strongly recommended				

Note:

Students who wish to continue with their Language Studies at postgraduate level, should consult the specific department for the selection of their modules and should possibly select additional modules.

IT.20.5 BIS with specialisation in INFORMATION AND KNOWLEDGE MANAGEMENT (Code 12131007)

The information and knowledge-based economy has brought about radical changes in the job market. The purpose of this degree is to enable students to develop knowledge and skills in die management of one of the most important resources of enterprises, namely information and knowledge. Graduates will have knowledge and skills in the effective management of information and knowledge, will realise the importance of the integration of information content and information technology (IT), and will be able to implement in a professional way, information and knowledge management strategies in enterprises.

Applicable domains are government, community, business, education and SMMEs. Graduates will be trained as information and knowledge managers, information consultants, information-system developers, systems analysts, e-commerce specialists, information technologists and information specialists.

The degree has been developed in consultation with experts in industry and is based on three core subject fields, namely Information Science, Informatics and Entrepreneurship/ Business Management.

Package organiser:

Mrs Deonie Botha, IT 6-56, Tel: 012 420 2963, e-mail: deonie.botha@up.ac.za

Admission requirements for candidates with a senior certificate

A grade 12 certificate with university exemption; and

- at least 50%(D) at higher grade in Afrikaans or English or an African language; and
- an M-score of at least 15*; and
- at least 50%(D) in Mathematics at higher grade; or 60%(C) in Mathematics at standard grade; or

at least 40%(E) in Mathematics at higher grade or 50%(D) at standard grade and 60%(C) in Computer Studies at higher grade or 70%(B) at standard grade in the final Grade 12 examination*.

* If the M-score and/or Mathematics prerequisites are not met, application can be made to register for Information Technology (IT) Special.

Admission requirements for candidates with a National Senior Certificate (from 2009)

To be admitted to any undergraduate field of study in the School of Information Technology, candidates who wrote the final Grade 12 exams for the National Senior Certificate must comply with the following admission requirements:

- 1. Obtained a NSC (University Admission); and
- 2. Written examinations in either Afrikaans or English or an African Language.
- 3. Written examinations in both Mathematics and Information Technology.

Minimum credits required: 476	Year-level 1	Year-level 2	Year-level 3	Total
Fundamental modules	32	8	0	40
Core modules	99	187	130	416
Elective modules	20*	0	0	20*
Total	151	195	130	476*

Note:

* Because credits are not calculated in the same way in all faculties, students should take note that the total amount of credits required for this package must be at least 476. Total credits may be more depending on the choice of elective modules.

FIRST YEAR OF STUDY

Fundamental modules for year-level 1 (32 credits)

Code	Module	Prerequisites	Credits	Period	
Passing of a	an exemption examination in CIL 111	or			
CIL 111	Computer Literacy and		4	S1	
CIL 121	Information Literacy		4	S2	
EAG 151	AG 151 Academic Skills 6		6	Q1	
Passing of a	an exemption examination in Academi	c Literacy or			
EOT 110	Academic Literacy		6	S1	
EOT 120	Academic Literacy		6	S2	
RES 151	Research		6	Q3	

Core modules for year-level 1 (99 credits)

Code	Module	Prerequisites	Credits	Period
INL 111	Information Science: Introduction		6	Q1
	to Information Science			
INL 112	Information Science: Represent-		6	Q2
	ation and organization of			
	information			
INL 121	Information Science: Information		6	Q3
	Technology			
INY 123	Information and Knowledge		6	Q4
	Management			
INF 112	Informatics	IT.2(c)	10	S1
INF 153	Informatics	IT.2(g)	5	S1
INF 154	Informatics	IT.2(g)	5	S1
INF 163	Informatics	INF 153 GS	5	S2
INF 164	Informatics	INF 154 GS	5	S2
FRK 111	Financial Accounting		10	S1
FRK 121	Financial Accounting	FRK 111GS	12	S2
INF 181	Informatics	Par IT. 2(d)	3	S1 or 2
Select one of	of the following subjects up to year-l	evel 3		
OBS 110	Business Management		10	S1
and				
OBS 120	Business Management	OBS 110	10	S2

OBS 113 and	or Entrepreneurship		10	S1
	Entrepreneurship	OBS 110, 113GS or LP	10	S2

Elective modules for year-level 1 (20 credits*)

Code	Module	Prerequisites	Credits	Period	
Select any four quarter modules or two semester modules from one module on year-level 1					
in consultation	on with the package organiser.				

Note:

* Because credits are not calculated in the same way in all faculties, students should take note that the total amount of credits required for this module must be at least 20.

SECOND YEAR OF STUDY

Fundamental module for year-level 2 (8 credits)

Code	Module	Prerequisites	Credits	Period
+JCP 202	Community-based Project		8	^

Note:

+ Students who register for the first year during 2006 will be required to successfully complete the above module as part of the requirements for the bachelor's degree. A student may register for the module during the second or third year of study in accordance with departmental requirements.

^ Consult the department at the beginning of the year.

Core modules for year-level 2 (187 credits)

Code	Module	Prerequisites	Credits	Period
INL 211	Information Science: Information retrieval	CIL 121	10	Q1
INL 212	Information Science: Information seeking	INL 211†	10	Q2
INL 221	Information Science: Infopreneurship and information ethics		10	Q3
INY 218	Information and the Law		10	Q2
INY 227	Information representation		10	Q3
INY 224	Information Science: Applied information ethics		10	Q4
INF 214	Informatics	CIL 111 & 121 (previously CIL 171 – 174)	14	S1
INF 261	Informatics	INF 214 GS	7	S2
INF 225	Informatics	CIL 111 & 121 (previously CIL 171 – 174)	14	S2
INF 271	Informatics	CIL 111 & 121 (previously CIL 171 – 174) INF 163, 164 IT. 2(g)	14	Year

INF 272	Informatics	CIL 111 & 121 (previously CIL 171 – 174) INF 163, 164 IT. 2(g)	14	Year	
KOB 210	Communication Management		16	S1	
KOB 220	Communication Management		16	S2	
Select one of the following subjects (the same subject as selected on year-level 1)					
OBS 210	Business Management	OBS 110	16	S1	
and OBS 220	Business Management		16	S2	
OBS 213 and	or Entrepreneurship	OBS 113	16	S1	
OBS 223	Entrepreneurship		16	S2	

Note:

† Indicates that the module INL 211 must be passed before or be taken concurrently with INL 212.

THIRD YEAR OF STUDY

Core modules for year-level 3 (130 credits)

Code	Module	Prerequisites	Credits	Period
INL 311	Information Science: Publication		15	Q1
	formats in a digital environment			
INL 321	Information Science: Information		15	Q3
	Management			
INY 318	Information economics		15	Q2
INY 327	Information and Knowledge	INY 123, INL 321 or	15	Q4
	Management	LP		
INY 328*	Information and Knowledge	LP	15	S2*
	Management in practice			
INF 324	Informatics	INF 261, 262, 271,	15	S2
		272		
Select one	of the following subjects (the same	subject as selected on	year-level 1	and 2)
OBS 310	Business Management	OBS 110	20	S1
and				
OBS 320	Business Management		20	S2
	or			
OBS 313	Entrepreneurship	OBS 113	20	S1
and				
OBS 323	Entrepreneurship		20	S2

Note:

* Consult the package organiser in Quarter 1 concerning INY 328.

POSTGRADUATE PROGRAMMES IN INFORMATION SCIENCE

IT.21 BACCALAUREUS INFORMATIONIS SCIENTIAE (HONORES), [BIS(Hons)]

Consult General Regulations G.16 to G.29

Programme manager:

Prof TJD Bothma, IT 6-73, Tel: 012 420 2293, e-mail: theo.bothma@up.ac.za

Admission requirements:

- (a) BIS specializing in Information Science, Information and Knowledge Management, Library Science, Multimedia or Publishing
- (b) Any equivalent first degree.

IT.21.1 BIS(HONS) with specialisation in INFORMATION SCIENCE BIS(Hons) Information Science (Code 12240003)

Package organiser:

Mrs C Penzhorn, IT 6-61, Tel: 012 420 2920, e-mail: cecilia.penzhorn@up.ac.za

Admission requirements:

BIS specializing in Information Science, Information and Knowledge Management, Library Science or an equivalent degree.

Minimum credits required: 160			NQF L	.evel 7			
Fundamental	40	Research		Core modules	40	Elective	80
modules						modules	

Fundamental modules (40 credits)

INY 711	Research Methodology	20
INY 712	Research Report	20

Core modules (40 credits)

INY 714	Organisation, retrieval and seeking of information	20
INY 713	Information and Knowledge Management (I)	20

Elective modules (80 credits)

Select **any four 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 Information Technology.)

INY 715	Information Ethics	20
INY 716	Information and Knowledge Management (II)	20
INY 717	Information retrieval	20
INY 718	Information economy	20
INY 719	Read and reading practices	20
INY 720	Digital libraries	20
INY 721	Information literacy	20
INY 722	Information society	20
INY 723	Information philosophy	20
INY 724	Multimedia	20

Informetrics	20
Competitive intelligence (I)	20
Competitive intelligence (II)	20
Decision-making theory	20
Management of information centres	20
Information communication	20
Information and communication technology for development	20
Knowledge dynamics	20
Indigenous Knowledge and Indigenous Knowledge Systems	20
	Competitive intelligence (I) Competitive intelligence (II) Decision-making theory Management of information centres Information communication Information and communication technology for development Knowledge dynamics

IT.21.2 BIS(HONS) with specialisation in MULTIMEDIA [BIS(Hons) Multimedia] (Code 12240004)

Programme manager:

Prof TJD Bothma, IT 6-73, Tel: 012 420 2293, e-mail: theo.bothma@up.ac.za

Admission requirements

BIS specializing in Multimedia

Minimum credits required: 160				NQF L	evel 7		
Fundamental	20	Research		Core modules	60	Elective	80
modules						modules	

Fundamental modules (20 credits)

INY 711	Research Methodology	20
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Core modules (60 credits)

IMY 772	Hypern	Hypermedia and mark-up languages	
IMY 761	Applied	d Multimedia	40

Elective modules (80 credits)

Select **any four 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 Information Technology.)

IMY 771	Multimedia trends	20
IMY 773	Multimedia technology	20
IMY 774	Virtual environments	20
IMY 776	Multimedia training and education systems	20
IMY 777	Animation theory and practice	20
IMY 778	Music and sound technology	20
IMY 779	Human-computer interaction	20

IT.21.3 BIS(HONS) with specialisation in PUBLISHING [BIS(Hons) Publishing] (Code 12240005)

Package organiser:

Dr F Galloway, IT 6-34, Tel: 012 420 2426, e-mail: francis.galloway@up.ac.za

Admission requirements

- BIS specializing in Publishing or any related package or equivalent degree;
- A minimum average of 65% in the undergraduate studies.

Minimum credits required: 160			1	NQF L	evel 7		
Fundamental	20	Research	0	Core modules	100	Elective	40
modules						modules	

Fundamental modules (20 credits)

INY 711	Research Methodology	20

Core modules (100 credits)

PUB 721	Design and production	20
PUB 722	Publishing management: Management and finances	20
PUB 723	Publishing management: Organization and processes	20
PUB 724	The publishing environment: Developments and trends in the	20
	South African book industry	
PUB 725	The publishing environment: Global developments and trends	20
	in book publishing	

Elective modules (40 credits)

Select any two modules of the following in collaboration with the package organiser.

PUB 726	Corporate publishing	20
PUB 727	E-publishing	20
PUB 712	Advanced e-publishing	20
PUB 715	Advanced design and production	20
AFT 758	Advanced copy-editing: African languages	20
AFR 767	Editing	20
ENG 777	Editing	20

IT.23 MAGISTER INFORMATIONIS SCIENTIAE [MIS] MAGISTER ARTIUM [MA] (RESEARCH)

Consult General Regulations G.30 to G.44 and G.57 to G.62

Programme manager:

Prof TJD Bothma, IT 6-73, Tel: 012 420 2293, e-mail: theo.bothma@up.ac.za Prof Archie Dick, IT 6-72, Tel: 012 420 2294, e-mail: archie.dick@up.ac.za

Admission requirements

For IT.23.1 - IT.23.4

BIS and BIS(Hons) specializing in any of the specific packages for:

- 1. Library Science
- 2. Information Science
- 3. Multimedia
- 4. Publishing
- 5. or any equivalent honours degree.

For IT.23.5

An appropriate BA(Hons) or an appropriate B degree plus at least two years' work experience. In specific cases it may be required of candidates to complete additional preparatory work in order to achieve the required level of competence in the specific discipline.

- IT.23.1 MIS with specialisation in LIBRARY SCIENCE (Research) [MIS (Library Science)] (Code: 12254001) BIB 890 Dissertation: Library Science
- IT.23.2 MIS with specialisation in INFORMATION SCIENCE (Research) [MIS (Information Science)] (Code 12254003) INL 890 Dissertation: Information Science
- IT.23.3 MIS with specialisation in IN MULTIMEDIA (Research) [MIS (Multimedia)] (Code 12254005) IMY 890 Dissertation: Multimedia
- IT.23.4 MIS with specialisation in PUBLISHING (Research) [MIS (Publishing)] (Code 12254007) PUB 890 Dissertation: Publishing
- IT.23.5 MA with specialisation in DEVELOPMENT COMMUNICATION (Research) [MA (Development Communication)] (Code 01252044)* OKT 890 Dissertation: Development Communication

*Registration for this degree is done on Level 6 of the Human Sciences Building.

IT.24 MAGISTER INFORMATIONIS SCIENTIAE [MIS], MAGISTER ARTIUM [MA] (COURSEWORK)

Consult General Regulations G.30 to G.44

Programme manager:

Prof TJD Bothma, IT 6-73, Tel: 012 420 2293, e-mail: theo.bothma@up.ac.za Prof I Fourie, IT 6-65, Tel: 012 420 5216, e-mail: ina.fourie@up.ac.za

Admission requirements

For IT.24.1

- (i) Subject to the stipulations of General Regulations G.1.3, G.30 and G.62, an appropriate three-year university bachelor's degree and Honours degree in Information or Library Science, or a four-year university degree in Information or Library Science is a requirement for admission.
- (ii) Management experience in a library or information centre, appropriate and sufficient in the option of the Selection Committee.
- (iii) The Head of the Department may impose additional requirements for admission. In particular, this will apply to candidates with insufficient academic background in the specific field of study or insufficient management experience.
- (iv) Selection of candidates will take place.
- (v) The result of the selection is final and no correspondence will be entered into.

For IT.24.2- IT.24.4

BIS and BIS(Hons) specializing in any of the specific packages for:

- * Information Science
- * Multimedia
- * Publishing
- or any equivalent honours degree.

For IT.24.5

An appropriate BA(Hons) degree or an appropriate B degree plus at least two years' work experience. In specific cases it may be required of candidates to complete additional preparatory work in order to achieve the required level of competence in the specific discipline.

IT.24.1 MIS with specialisation in LIBRARY SCIENCE (Coursework) [MIS (Library Science)] (Code 12254002)

Minimum credits required: 240			NQF Level 7				
Fundamental	0	Research	60	Core modules	180	Elective	0
modules						modules	

Research		
BIB 896	Mini-dissertation and research portfolio: Library Science	120
Core module		
BIB 801	Library Science (coursework): Coursework component	120

IT.24.2 MIS with specialisation in INFORMATION SCIENCE (Coursework) [MIS (Information Science)] (Code 12254004)

- IT.24.3 MIS with specialisation in MULTIMEDIA (Coursework) [MIS (Multimedia)] (Code 12254006)
- IT.24.4 MIS with specialisation in PUBLISHING (Coursework) [MIS (Publishing)] (Code 12254008)

IT.24.5 MA with specialisation in DEVELOPMENT COMMUNICATION (Coursework) [MA (Development Communication)] (Code 01252045)

*Registration for this degree is done on Level 6 of the Human Sciences Building.

Minimum credits required: 240			NQF Level 7				
Fundamental	0	Research	120	Core modules	120	Elective	0
modules						modules	

The coursework for the curriculum is identified and compiled in consultation with industry, individual students and according to the student's research interest.

Information Science

Research			
INL 895	Mini-dissertation: Information Science	120	
Core modules			
INL 802	Information and knowledge management	50	
INL 812	Organisation and retrieval of information	30	
And select any two from the following modules			
INL 803	Information ethics and information law	20	
INL 804	Information for development	20	
INL 806	Information society	20	
INL 809	Informetrics	20	
INL 810	Competitive intelligence	20	
INL 811	Advanced decision-making theory	20	
INL 813	Management of information centres	20	

Multimedia		
Research		
IMY 895	Mini-dissertation: Multimedia	120
Core module		
IMY 801	Multimedia (coursework): Coursework component	120

Publishing

Research		
PUB 895	Mini-dissertation: Publishing	120
Core module		
PUB 801	Publishing (coursework): Coursework component	120

Development Communication

Research		
OKT 895 Mini-dissertation: Development Communication		120
Core modules		
OKT 880	Theory of Development Communication	30
OKT 881	Management of Development Communication	30
OKT 882	Practice of Development Communication	30
OKT 883	Information centres and Development Communication	30

IT.25 DOCTOR PHILOSOPHIAE, PHILOSOPHIAE DOCTOR [DPhil, PhD] (RESEARCH)

Consult General Regulations G.45 to G.62

Programme manager:

Prof TJD Bothma, IT 6-73, Tel: 012 420 2293, e-mail: theo.bothma@up.ac.za Prof Archie Dick, IT 6-72, Tel: 012 420 2294, e-mail: archie.dick@up.ac.za

Admission requirements

- 1. MIS (Library Science)
- 2. MIS (Information Science)
- 3. MIS (Multimedia)
- 4. MIS (Publishing)
- 5. MIS (Development Communication)
- 6. **or** an equivalent Master's degree

IT.25.1 DPHIL with specialisation in LIBRARY SCIENCE [DPhil Library Science] (Code 12264001)

BIB 990	Thesis: Library Science
BIB 900	Examination/justification of thesis

IT.25.2 DPHIL with specialisation in INFORMATION SCIENCE [DPhil Information Science] (Code 12264002)

INL 990	Thesis: Information Science
INL 900	Examination/justification of thesis

IT.25.3 PhD with specialisation in PUBLISHING [PhD: Publishing)] (Code 12264003)

PUB 990	Thesis: Publishing
PUB 900	Examination/justification of thesis

DEPARTMENT OF COMPUTER SCIENCE

Admission requirements for the degree Baccalaureus Scientiae (Computer Science)(Code 12134000)

(i) For candidates with a senior certificate

To obtain admission to this degree programme, a candidate should have obtained the following:

- (a) a minimum M score of 18 in the final Grade 12 examinations; and
- (b) at least 60%(C) in Mathematics at higher grade in the final Grade 12 examinations; and
- (c) at least 60%(C) in Computer Studies at higher grade in the final Grade 12 examinations;
 - or

COS130/COS 131 (COS 130 is also presented as a short course in January during the Summer School).

Candidates who comply with requirements (a) and (b) above but not with (c), can obtain special permission from the Head of Department to register for BSc(CS).

Candidates who do not comply with these requirements are advised to register for either BSc (IT) or IT Special, depending on whether they comply with the admission requirements for these two programmes.

(ii) Admission requirements for candidates with a National Senior Certificate

To be admitted to any undergraduate field of study in the School of Information Technology, candidates who wrote the final Grade 12 exams for the National Senior Certificate must comply with the following admission requirements:

- 1. Obtained a NSC (University Admission); and
- 2. Written examinations in both Mathematics and Information Technology.

Admission requirements for the degree Baccalaureus Scientiae (Information Technology)(Information and Knowledge Systems) (Code 12133211)

(i) For candidates with a senior certificate

To obtain admission to this degree programme, a candidate should have obtained the following:

- (a) a minimum M score of 15 in the final Grade 12 examinations; and
- (b) at least 50%(D) in Mathematics at higher grade in the final Grade 12 examinations; and
- (c) COS130/COS131 which is presented during the Summer School in January of the first year of registration. A candidate who obtained a minimum of a D symbol for Computer Studies HG in the final Grade 12 examinations, is waived from this requirement.

Candidates who do not comply with these requirements are advised to register for IT Special, depending on whether they comply with its admission requirements.

(ii) Specific requirements for candidates with a National Senior Certificate (from 2009)

To be admitted to any undergraduate field of study in the School of Engineering, candidates who wrote the final Grade 12 examinations for the National Senior Certificate must have complied with the following admission requirements:

- 1. Obtained a NSC (University Admission); and
- 2. Written examinations in both Mathematics and Information Technology.

CURRICULA OF PROGRAMMES IN COMPUTER SCIENCE

IT.26 BACCALAUREUS SCIENTIAE [BSc(CS)](Code 12134000)

Curriculum

The curriculum of the BSc(CS) degree programme is outlined below. It comprises fundamental, core and elective modules in each year of study. The degree is awarded after a minimum of 443 credits have been obtained successfully. The following credit requirements apply to the different study-year levels:

Year-level 1:

Fundamental modules: Core modules: Elective modules: Total:	at least 8 credits 84 credits at least 24 credits at least 125 credits and at most 155 credits
Year-level 2: Core modules: Elective modules: Total:	90 credits at least 40 credits at least 130 credits
Year-level 3: Core modules: Elective modules: Total:	at least 99 credits at least 45 credits at least 144 credits
Enrichment modules:	 Compulsory: JCP 202 (8 credits) Own choice: if another 8 credits is needed

Total credits for the degree: at least 443 credits

Notes:

1) In addition to complying with all the requirements specified at the different year levels below, one or more *enrichment modules* to the value of between 8 and 16 credits must be taken at some stage during the degree programme. These modules may be chosen freely and constitute the enrichment credits. Such modules may, however, not be taken if presented by any department offering the modules mentioned below. Neither may such modules be presented by any other department in the Faculty of Engineering, Built Environment and Information Technology, nor by any other department in the Faculty of Economic and Management Sciences.

- 2) Required elective modules at each year-level are classified into coherent groups. In order to obtain credits for specified modules in a selected group, all modules in the group have to be passed. (For example, OBS110 and OBS120 should both be passed if their total of 20 credits is to contribute towards the 24-credit requirement for core modules at year-level 1.)
- 3) Any single required elective module (in blocks) may serve as an additional elective module. Therefore the additional elective modules do not have to be passed as a group. (For example, OBS 110 may be passed on its own and contribute 10 credits towards the requirements for *elective* modules at year level 1)
- 4) The code in the "Period" column in the tables below indicates when the module is *normally* presented. "Q" indicates Quarter, and "S" indicates Semester. In certain years, these times may change in certain departments.

Requirements for promotion to the following year of study:

Refer to School of Information Technology regulation IT.9

First year of study (at least 125 credits and maximum of 155)

Fundamental modules (at least 8 credits)

Code	Module	Prerequisite	Credits	Period
Passing of an exemption examination in CIL 111 or				
CIL 111	Computer Literacy and		4	S1
CIL 121	Information Literacy		4	S2

Code	Module	Prerequisite	Credits	Period				
Passing of a	Passing of an exemption examination in Academic Literacy or							
EOT 110	Academic Literacy		6	S1				
EOT 120	Academic Literacy		6	S2				

Core modules for year-level 1 (84 credits):

Code	Module	Prerequisites	Credits	Period
COS 110	Program Design: Introduction	Mathematics HG D and M-score of 15 and (Computer Studies HG D or COS 130/COS 131)	16	S1
COS 151	Introduction to Computer science		8	S1
COS 140	Netcentric Computer Systems	COS 110 or (COS 130/COS 131/EPE 111/ EPE 112)	16	S2
EOS 284	Computer Architecture	COS 110 or (COS 130/COS 131)	12	S2
WTW 114	Calculus		16	S1
WTW 115	Discrete Structures		8	S1
WTW 126	Linear Algebra		8	S2

Elective modules for year-level 1:

A minimum of 24 credits from the following required elective module groups should be selected:

Code	Module	Prerequisite	Credits	Period
FRK 111	Financial Accounting		10	S1
and				
FRK 121	Financial Accounting	FRK 111 GS	12	S2
and				
INF 181	Informatics	IT.2 (d)	3	S1 or 2
OBS 110	Business Management	-	10	S1
OBS 120	Business Management	OBS 110 GS	10	S2
OBS 113	Entrepreneurship	-	10	S1
OBS 123	Entrepreneurship	OBS 110, 113 GS or	10	S2
		LP		
KOB 181	Communications Management	-	5	Q1, 2 or
				4
INL 111	Information Science	-	6	Q1
INL 112	Information Science	-	6	Q2
WST 111	Mathematical Statistics		16	S1
WST 121	Mathematical Statistics		16	S2
WTW 123	Numerical Analysis	WTW 114 GS	8	S2
WTW 128	Calculus	WTW 114 GS	8	S2
WTW 152	Mathematical Modelling	Par IT.2(b)	8	S1

Additional elective credits from the following module groups may be taken at any year-level:

16 credits for COS 130, for candidates who did not initially comply with the entry requirements of COS 110.

Any modules at year-level 1 from Chemistry

Any modules at year-level 1 from Mathematics

Any modules at year-level 1 from Physics

Code	Module	Prerequisites	Credits	Period
FIL 120	Philosophy		12	S2
INF 153	Informatics	Par IT.2(g)	5	S1
INF 163	Informatics	INF 153 GS	5	S2

Second year of study (at least 130 credits) Core modules for year-level 2 (90 credits):

Code	Module	Prerequisites	Credits	Period	
COS 212	Data Structures and Algorithms	COS 214 GS	16	S2	
COS 214	Design Patterns	COS 110 or [(COS 130/COS 131) and COS 140]	16	S1	
COS 222	Operating Systems	COS 110	16	S1	
COS 226	Concurrent Systems	COS 110	16	S2	
INF 214	Informatics	CIL 111, 121 (previously CIL 171 – 174)	14	S1	
WTW 285	Discrete Structures	WTW 115	12	S2	

Elective modules for year-level 2: A minimum of 40 required elective credits from the following module groups should be selected.

Code	Module	Prerequisites	Credits	Period
ERS 220	Digital Systems		16	S2
INL 221	Information Science		10	Q3
INY 224	Applied Information Ethics		10	Q4
WTW 218	Calculus	WTW 114 and WTW 128	12	S1
WTW 220	Analysis	WTW 126 or WTW 102, WTW 211	12	S2
WTW 211	Linear Algebra		12	S1
WTW 221	Linear Algebra		12	S2
FBS 200	Financial Management or	FRK 100 or FRK 101	32	Year
FBS 210 and	Financial Management	FRK 111, 121	16	S1
FBS 220	Financial Management or	FRK 111, 121	16	S2
FRK 211 and	Financial Accounting	FRK 111,121	18	S1
FRK 221	Financial Accounting or	FRK 211 GS and INF 181	18	S2
FRK 201	Financial Accounting	FRK 100 or 101 and STK 110, 120	32	Year
GGY 283	Introductory GIS	-	12	Q1
GIS 220	Geographic data analysis	-	12	S2
INF 271	Informatics	CIL 111, 121 (previously CIL 171 – 174), INF 163, 164 or LP	14	Year

Additional elective credits from the following module groups may be taken at any yearlevel:

Any module	s at year-level 2 from Mathematics								
Any module	s at year-level 2 from Mathematica	I Statistics							
Any modules at year-level 2 from Physics									
Code	Module Prerequisites Credits								
FIL 253	Cognitive philosophy	-	10	Q3					
FIL 254	Science and world views	-	10	Q4					
INL 211	Information Science	CIL 121(previously CIL 174)	10	Q1					
INL 212	Information Science		10	Q2					
INY 271	Advanced Mark-up Languages (1)	Departmental selection	10	S1					
INY 272	Advanced Mark-up Languages (2)	Departmental selection	10	S2					
KOB 210	Communication Management	-	16	S1					
KOB 220	Communication Management	-	16	S2					

Third year of study (minimum 144 credits) Core modules for year-level 3 (99 credits):

Core modules for year-level 5 (35 creats).									
Code	Module	Prerequisites	Credits	Periods					
COS 301	Software Engineering	COS 212	27	Year					
At least four of the following semester modules:									
Note: The se	emester in which these modules are	e offered may vary from	n year to ye	ar.					
COS 314	Artificial Intelligence	COS 214	18	S1					
COS 326	Databases	INF 214	18	S2					
COS 332	Computer Networks	COS 140	18	S1					
COS 333	Programming Languages	COS 110	18	S2					
COS 341	Compiler Construction	COS 212	18	S1					
COS 343	Trends in IT	COS 110 or COS	18	S2					
		130/COS 131 and							
		COS 140							
COS 344	Computer Graphics	COS 214 and WTW	18	S2					
		126 or LP							
EMK 310	Microprocessors	ERS 220GS or LP	16	S1					

Elective modules for year-level 3:

Modules for a minimum of 24 required elective credits should be selected from the following module groups:

Any two computer science modules not selected under the list of core modules for yearlevel 3.

Any module group of at least 36 credits at year-level 3 from Mathematics that includes WTW 385.

Code	Module	Prerequisites	Credits	Period					
GIS 310	Geographic Information Systems	GGY 283	24	S1					
GIS 320	Spatial Analysis	24	S2						
Any three of	Any three of the following modules:								
(Note: * Adm	nission to these modules requires d	epartmental selection.)							
INY 315	Advanced Multimedia	*	15	Q1					
INY 316	Human-computer Interaction	*	15	Q2					
INY 325	Interface Design	INY 316	15	Q3					
INY 326	Mark-up Languages	*	15	Q4					

Select additional elective modules for the remainder of credits from the following:

Any additional modules at year-level 3 in Computer Science									
Any additional modules at year-level 3 in Mathematics									
Any addition	Any additional modules at year-level 3 Mathematical Statistics								
Code	Module	Nodule Prerequisites Credits Period							
INF 324	Informatics	INF 261, 262, 271,	15	S2					
		272, or LP							
FBS 300	Financial Management or	FBS 200	40	Year					
FBS 310	Financial Management or	FBS 210, 220 with a	20 each	S1 and					
FBS 320	_	GS in the other		S2					
FRK 311	Financial Accounting or	FRK 211,221	22 each	S1 and					
FRK 321	-	FRK 311GS		S2					
FRK 300	Financial Accounting	FRK 201	42	Year					
At most three INL 3** / INY 3** modules selected from the INY 3** core modules and from									
the list below	v, provided that the INY3** module	es have not been select	ted as core	modules.					

INL 311	Information Science	-	15	Q1
INL 321	Information Science	-	15	Q3
INY 311	Multimedia	-	15	Q2
INY 312	Information for Development	-	15	Q2
INY 323	Information: Social-political	-	15	Q4
	Context			

IT.27 BACCALAUREUS SCIENTIAE [BSc IT(Information and Knowledge Systems)] (Code 12133321)

Curriculum

The curriculum of the BSc IT (Information and Knowledge Systems) consists of fundamental, core and elective modules in each year of study. The degree is awarded upon successful completion of a *minimum number of credits* that comply with the study programmes as given below.

Year level	Cred	dits										
			Elec	tives	1							
	Fundamentals	Core	Applied Mathematics	Bioinformatics	Geographical Information Sciences	IT and Enterprises	IT and Law	IT and Music	Operational Research	Philosophy	Psychology	Software Development
-	œ	64	56	64	48	53	56	74	72	52	48	55
7	8	06	72	36	36	38	52	53	28	50	40	41
ю		27	108	126	126	134	124	103	119	114	129	114
τοται	16	181	236	226	210	225	232	230	219	216	217	210
	TOTAL	for the option:	433	423	407	422	429	427	416	413	414	407

* This is the minimum total number of credits for the option.

Requirements for promotion to the following year of study: Refer to School of Information Technology Regulation IT.9

FUNDAMENTAL MODULES

Year-level 1 (at least 8 credits)

Code	Module	Prerequisites	Credits	Period	
Passing of	Passing of an exemption examination in CIL 111 or				
CIL111	Computer and Information Literacy		4	S1	
CIL121	Computer and Information Literacy		4	S2	
Passing of	an exemption examination in Academ	iic Literacy or			
EOT 110	Academic Literacy		6	S1	
EOT 120	Academic Literacy		6	S2	

Year-level 2 (8 credits)

Code	Module	Prerequisites	Credits	Period
JCP202	Community-based Project		8	Year

CORE MODULES

Year-level 1 (64 credits)

Code	Module	Prerequisites	Credits	Period
COS110	Program Design: Introduction	Mathematics HG(D) and M- Score of 15 and (Computer Studies HG(D) or COS 130/ COS 131)	16	S1
COS140	Netcentric Computer Systems	COS 110 or (COS 130/ COS 131)	16	S2
COS151	Introduction to Computer Science		8	S1
WTW114	Calculus	Par 1.2 – Natural Sciences	16	S1
WTW115	Discrete Structures	Par 1.2 – Natural Sciences	8	S1

Year-level 2 (90 credits)

Code	Module	Prerequisites	Credits	Period
COS212	Data Structures and Algorithms	COS214 GS	16	S2
COS214	Design Patterns	COS110 or (COS130/COS1 31 and COS140)	16	S1
COS222	Operating Systems	COS110	16	S1

COS226	Concurrent Systems	COS110	16	S2
INF214	Informatics	CIL 111 & 121	14	S1
WTW285	Discrete Structures	WTW115	12	S2

Year-level 3 (27 credits)

Code	Module	Prerequisites	Credits	Period
COS301	Software Engineering	COS212	27	Year

ELECTIVE MODULES

Select one of the following options:

••	lathematics option I 1 (56 credits)			
Code	Module	Prerequisites	Credits	Period
WST111	Mathematical statistics	Par 1.2 – Natural Sciences	16	S1
WST121	Mathematical statistics	WST111	16	S2
WTW123	Numerical Analysis	WTW114 GS/101GS	8	S2
WTW126	Linear Algebra	Par 1.2 - Natural Sciences	8	S2
WTW128	Calculus	WTW114/101	8	S2
Year-leve	I 2 (72 credits)			
Code	Module	Prerequisites	Credits	Period
WST211	Mathematical statistics	WST111, WST121, WTW114/101, WTW126/102, WTW128/102	24	S1
WST221	Mathematical statistics	WST211	24	S2
WTW211	Linear Algebra	WTW126/102	12	S1
WTW218	Calculus	WTW114/101, WTW128/102	12	S1
Year-leve	I 3 (108 credits)			
Code	Module	Prerequisites	Credits	Period
Any 3 othe	er COS module on year-level 3		54	
WTW354	Financial Engineering	WST211, WTW211, WTW218	18	S1
WTW383	Numerical Analysis	WTW114/101, WTW128, WTW211	18	S2
WTW389	Geometry	WTW211	18	S2

Bioinform	atics option			
	1 (64 credits)			
Code	Module	Prerequisites	Credits	Period
BME120	Biometry	[STK113 GS] and [STK123 GS] and [or at least 40%(HG) or 50% (SG) Grade 12 Maths or an equivalent Mathematics achievement]	16	S2
BOT161	Plant Biology	MLB111 GS or TDH	8	S2
GTS161	Introductory Genetics	MLB111 GS or TDH	8	S2
MBY161	Introduction to Microbiology		8	S2
MLB111	Molecular and cell biology	Physical Science HG(D)	16	S1
WTW126	Linear Algebra	Par 1.2 - Natural Sciences	8	S2
Year-level	2 (36 credits)			
Code	Module	Prerequisites	Credits	Period
GTS251	Organisation of Genes and Chromosomes	GTS161 GS	12	S1
GTS261	Genetic Analysis and Manipulation	GTS161 GS or TDH	12	S2
MBY251	Growth diversity and control/bacteria		12	S1
MBY261	Growth activity and control/fungi		12	S2
Year-level	3 (126 credits)			
Code	Module	Prerequisites	Credits	Period
BIF310	Bioinformatics (Will be presented for the first time in 2008)	WTW114, BME120 and GTS251	9	S1
BIF320	Bioinformatics (Will be presented for the first time in 2008)	BIF310	18	S2
COS314	Artificial Intelligence	COS214	18	S1
COS326	Database Systems	INF214	18	S2
COS344	Computer Graphics	COS214 and (WTW126 or LP)	18	S2
Choice of	either			
GTS353	Population Genetics	GTS251 GS and GTS261 GS or TDH	18	S1
GTS363	Evolutionary and Phylo-Genetics	GTS353 GS or TDH	18	S2

OR				
GTS352	Genomes	GTS251 GS and GTS261 GS or TDH	18	S1
GTS366	Plant Genetics and Biotechnology	GTS251 GS and GTS261 GS or TDH and GTS351 GS is recommended and GTS352 GS is recommended	18	S2

Geographical Information Sciences option				
Year-level	1 (48 credits)			
Code	Module	Prerequisites	Credits	Period
GGY132	Cartographic skills	(Maths HG(E) or SG(D)) or Geography HG(D)	4	S1
GGY153	Geography of Cities	(Maths HG(E) or SG(D)) or Geography HG(D)	6	Q1
GGY155	Human Geography of SADC	(Maths HG(E) or SG(D)) or Geography HG(D)	6	Q2
GGY162	Remote sensing	(Maths HG(E) or SG(D)) or Geography HG(D)	4	S2
GGY165	Principles of Physical Geography	(Maths HG(E) or SG(D)) or Geography HG(D)	6	Q3
GGY164	Physical geography of SA	(Maths HG(E) or SG(D)) or Geography HG(D)	6	Q4
GMC110	Cartography	GGY132	8	S1
WTW126	Linear Algebra	Par 1.2 - Natural Sciences	8	S2
Year-level	2 (36 credits)			
Code	Module	Prerequisites	Credits	Period
GGY283	Introductory GIS	None	12	S1
GIS220	Geographical Data Analysis	None	12	S2
GMC210	Cartography	GMC110	12	S1

Year-level 3 (126 credits)				
Code	Module	Prerequisites	Credits	Period
COS326	Database Systems	INF214	18	S1
COS344	Computer Graphics	COS214 and (WTW126 or LP)	18	S2
One other	COS module on year-level 3		18	
GIS310	Geographical Information Systems	GGY283 or TDH	24	S1
GIS320	Spatial Analysis	GIS310 or TDH	24	S2
GMC310	Cartography	GMC210	24	S1

IT and Enterprises option				
	1 (53 credits)			<u> </u>
Code	Module	Prerequisites	Credits	Period
BEM110	Marketing Management		10	S1
BEM121	Marketing Management		10	S2
OBS110	Business Management		10	S1
OBS120	Business Management	OBS110 GS	10	S2
STK110	Statistics		13	S1
Year-level	2 (38 credits)			
Code	Module	Prerequisites	Credits	Period
BPE251	Business Ethics		6	S1
OBS210	Logistics Management	OBS110 or OBS120 with GS in the other	16	S1
OBS220	Project Management	OBS110 or OBS120 with GS in the other	16	S2
Year-level	3 (134 credits)			
Code	Module	Prerequisites	Credits	Period
COS326	Database Systems	INF214	18	S2
COS343	Trends in IT	COS 110 or (COS 130/ COS 131 and COS 140)	18	S2
One other	COS module on year-level 3		18	
OBS311	Entrepreneurship	OBS110 or OBS113	20	S1
OBS321	Entrepreneurship	OBS311 GS	20	S2
One of the	following combinations to be taken eit	ther in 2nd or 3rd ye	ar	
OBS315	E-business	OBS110 or OBS120 with GS in the other	20	S1

OBS325	E-commerce	OBS110 or OBS120 with GS in the other	20	S2
OR				
OBS359	International Business Management	OBS110 or 120 with GS in the other	20	S1
OBS369	International Financial Management	OBS110 or 120 with GS in the other; OBSS359 GS	20	S2
OR				
OBS310	Human Resource Management	OBS110 or OBS120 with GS in the other	20	S1
OBS320	Business Management	OBS110 or OBS120 with GS in the other	20	S2

IT and La	w option			
	1 (56 credits)			
Code	Module	Prerequisites	Credits	Period
FIL110	Philosophy		12	S1
KRG110	Commercial Law		10	S1
KRG120	Commercial Law	Admission to examination in KRG110	10	S2
KRM110	Fundamental Criminology and Violent Crimes		12	S1
KRM120	Penology and Crime Prevention and Control		12	S2
Year-leve	2 (52 credits)			
Code	Module	Prerequisites	Credits	Period
KRG200	Commercial Law	Admission to examination in KRG120	32	Year
KRM251	Forensic Criminalistics	None	10	Q1
KRM253	Victimology	None	10	Q3
Year-leve	3 (124 credits)			
Code	Module	Prerequisites	Credits	Period
Any 3 othe	er COS modules on year-level 3		54	
KRM351	Psychocriminology		15	Q1
KRM353	Female Crime	KRM355	15	Q3
KRM355	Theories of Crime		15	Q2
KRM356	Contemporary Criminology Issues		15	Q4

KUB420	Cyber Law	The head of department may set the subject prerequisites.	10	S2
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IT and Mu	sic option			
Year-leve	l 1 (74 credits)			
Code	Module	Prerequisites	Credits	Period
DFK110	Drama and Film Studies		12	S1
EOS284	Computer Architecture	COS110 or (COS130/COS1 31)	12	S2
MOP172	Music Literacy		30	Year
MPE170	Music Education	Closed - Requires departmental selection	10	Year
WTW126	Linear Algebra	Par 1.2 - Natural Sciences	8	S2
WTW128	Calculus	WTW114/101	8	S2
Year-leve	2 (53 credits)			
Code	Module	Prerequisites	Credits	Period
DFK253	Realism and performance	None	10	Q3
ERS220	Digital Systems	None	16	S2
MPE270	Music Education	Closed - Requires departmental selection	15	Year
WTW218	Calculus	WTW114/101, WTW128/102	12	S1
Year-leve	l 3 (103 credits)			
Code	Module	Prerequisites	Credits	Period
Any 3 othe	er COS modules on year-level 3		54	
EMK310	Microprocessors	ERS220 or LP	16	S1
MCS300	Music Technology	Closed - Requires departmental selection	15	Year
WTW386	Partial Differential Equations	WTW218 and WTW286	18	S1

Operation	al Research option			
Year-leve	1 (72 credits)			
Code	Module	Prerequisites	Credits	Period
FRK101	Financial Accounting		24	Year
WST111	Mathematical statistics		16	S1
WST121	Mathematical statistics	WST111	16	S2
WTW126	Linear Algebra	Par 1.2 - Natural Sciences	8	S2
WTW128	Calculus	WTW114/101	8	S2
Year-leve	2 (28 credits)			
Code	Module	Prerequisites	Credits	Period
BAN222	Industrial Analysis	BES210 GS	8	S2
BES210	Engineering Statistics	None	8	S1
WTW211	Linear Algebra	WTW126/102	12	S1
Year-leve	3 (119 credits)			
Code	Module	Prerequisites	Credits	Period
BOZ311	Operational Research	BAN222	16	S1
BOZ321	Operational Research	BOZ311	16	S2
COS314	Artificial Intelligence	COS214	18	S1
COS326	Database Systems	INF214	18	S2
One other	COS module on year-level 3		18	
SOC353	Industrial Sociology	None	15	Q4
WTW383	Numerical Analysis	WTW114/101, WTW128, WTW211	18	S2

Philosophy option Year-level 1 (52 credits)					
Code	Module	Prerequisites	Credits	Period	
FIL110	Philosophy		12	S1	
FIL120	Philosophy		12	S2	
SCI154/ 164	Exploring the Universe		16	S1/S2	
SLK120	Psychology		12	S2	
Year-leve	l 2 (50 credits)				
Code	Module	Prerequisites	Credits	Period	
FIL251	Western Intellectual History		10	Q1	
FIL252	History and Society		10	Q2	
FIL253	Cognitive Philosophy		10	Q3	
FIL254	Philosophy of Science		10	Q4	
INL221	Information Science: Infopreneurship and ethics		10	Q3	

Year-level 3 (114 credits)					
Code	Nodule Prerequisites Credits Period				
Any 3 other COS modules on year-level 3			54		
FIL351	Philosophical hermeneutics		15	Q1	
FIL352	Political Philosophy		15	Q2	
FIL354	Postmodernism, ethics and society		15	Q4	
FIL355	Ethics		15	Q3	

Psycholo	gy option			
Year-leve	l 1 (48 credits)			
Code	Module	Prerequisites	Credits	Period
KRM110	Fundamental Criminology and Violent Crimes		12	S1
KRM120	Penology and Crime Prevention and Control		12	S2
SLK110	Psychology		12	S1
SLK120	Psychology		12	S2
Year-leve	2 (40 credits)			
Code	Module	Prerequisites	Credits	Period
KRM251	Forensic Criminalistics		10	Q1
KRM252	Youth Misbehaviour		10	Q2
SLK251	Personology	SLK151, 152	10	Q1
SLK254	Social Psychology		10	Q3
Year-leve	l 3 (129 credits)			
Code	Module	Prerequisites	Credits	Period
Any 3 othe	er COS3		54	
KRM351	Psychocriminology		15	Q1
KRM355	Theories of Criminology		15	Q2
SLK352	Abnormal Psychology		15	Q3
SLK353	Critical Perspectives		15	Q4
SLK362	Child Psychopathology		15	Q2

Software Development option Year-level 1 (55 credits)					
Code	Module	Prerequisites	Credits	Period	
COS130	Introduction to Programming		16	S1	
FRK101	Financial Accounting		24	Year	
INF153	Informatics	IT.2(g)	5	S1	
INF163	Informatics	INF153 GS	5	S2	
INF164	Informatics	INF154 GS	5	S2	

Year-leve	I 2 (41 credits)			
Code	Module	Prerequisites	Credits	Period
INF261	Informatics	INF214	7	S2
INF272	Informatics	INF163, INF164	14	Year
INY271	Advanced Markup Languages	Closed – Requires departmental selection	10	S1
INY272	Advanced Markup Languages	Closed – Requires departmental selection	10	S2
Year-leve	I 3 (114 credits)			
Code	Module	Prerequisites	Credits	Period
COS326	Database Systems	INF214	18	S2
COS333	Programming Languages	COS110	18	S2
One other	COS module on year-level 3		18	
INF354	Informatics		15	S1
INY300	Multimedia Project	Closed - Requires departmental selection	15	Year
INY316	Human-computer interaction	Closed - Requires departmental selection	15	Q2
INY325	Interface Design	Closed - Requires departmental selection	15	Q3

POSTGRADUATE PROGRAMMES IN COMPUTER SCIENCE

Details for postgraduate modules are available at the home page www.cs.up.ac.za.

IT.28 BACCALAUREUS SCIENTIAE HONORES IN COMPUTER SCIENCE [BSc(Hons) Computer Science] (Code12244000)

This degree programme is offered in English. Consult General Regulations G.16 to G.29

(a) Admission

Subject to the stipulations of General Regulations G.1.3, G.16 and G.62, a BSc degree, majoring in Computer Science from a South African university (or equivalent) with an average of 60% over all third-year computer science modules, is required for admission to this degree programme. Students from outside South

Africa need to obtain a certificate from the SA Qualifications Authority (SAQA) before admission will be considered. The Head of the Department may prescribe additional conditions for admission.

(b) Minimum duration of study period

A student is required to complete his/her studies within one year (full-time) or within two years (part-time). However, the Dean, on the recommendation of the Head of the Department, may approve a stipulated limited extension of this period.

(c) Pass requirements

In calculating marks, General Regulation G.12.2 is applicable. However, a student is required to obtain at least 50% in an examination in a module where no semester or year mark is required. In those cases where a year mark or semester mark is available, a subminimum of 40% must be obtained in the examination.

(d) Examinations

The Dean may, on the recommendation of the Admissions Committee, cancel the studies of a student who fails more than one module in an academic year. A module may only be repeated once. No supplementary examinations are granted at postgraduate level.

(e) Degree with distinction

The BSc(Hons) 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.

(f) Conferment of degree

The degree is conferred on a student who successfully completes at least 160 credits of coursework in Computer Science at honours level. The degree consists of 160 credits organised as follows:

- > 100 credits chosen from computer science with 80 from the list of core modules
- > 60 credits chosen from any (other honours) modules on offer in the Department of Computer Science or elsewhere within the School of Information Technology
- > modules from other departments (e.g. Electronic Engineering, Mathematics) may be taken pending approval by the Head of Department
- > only full-time students may earn 20 credits by submitting a project.

(g) Curriculum

The curriculum is determined in consultation with the Head of Department.

IT.29 MAGISTER SCIENTIAE IN COMPUTER SCIENCE [MSc(Computer Science)] (Research) (Code 12255000)

Consult General Regulations G.30 to G.44 and G.57 to G.62

(a) Admission

Subject to the stipulations of General Regulations G.1.3, G.30 and G.62, an appropriate BSc(Hons) or equivalent degree is required for admission. In addition, to be considered for admission, an average of 65% should have been obtained for

the modules passed for the honours degree. The Dean, on the recommendation of the supervisor and the Head of the Department, may approve additional requirements and conditions.

(b) Conferment of degree

The MSc degree is conferred on grounds of a dissertation and such additional postgraduate coursework as may be prescribed. A student works under the guidance of a supervisor and is expected to identify and complete a research project. The research results are to be fully reported in an MSc dissertation.

(c) Degree with distinction

The MSc degree is conferred with distinction on candidates who obtain a final average mark of at least 75%.

(d) Progress requirements

If the supervisor affirms that a candidate has progressed satisfactorily, registration may be renewed for the second year (full-time) or for the second to fourth year (part time). Re-registration thereafter will only take place if a written motivation from the candidate, supported by the Head of the Department is submitted to the Student Administration offices.

(e) Duration

Consult General Regulation G.32.4 regarding the maximum period of registration allowable.

(f) Curriculum

A student is required to demonstrate, by means of a dissertation, the ability to plan, institute and execute a scientific investigation. Unless decided otherwise by the Dean, on the recommendation of the Head of Department, a student shall submit at least one draft article, based on the research undertaken and approved by the supervisor, to a refereed journal or conference for publication, before or concurrent with the submission of the dissertation.

IT.30 PHILOSOPHIAE DOCTOR IN COMPUTER SCIENCE PhD (Computer Science) (Code 12266000)

Consult General Regulations G.45 to G.62

(a) Admission

Subject to the stipulations of General Regulations G.1.3, G.45 and G.62, admission to doctoral studies requires that the candidate should have obtained at least 75% for a Master's degree in Computer Science.

(b) Curriculum

The Department offers a research-based PhD degree. The student works under guidance of a supervisor and is expected to identify and complete a research project. The research results are to be fully reported in a PhD thesis.

(c) Conferment of degree

Unless otherwise decided by the Dean, on the recommendation of the supervisor, the PhD (Computer Science) degree is awarded on the basis of a thesis and an examination on the thesis.

(d) Draft article

Unless the Senate, on the recommendation of the Supervisor, decides otherwise, a student, before or on submission of a thesis, must submit proof of submission of an article by an accredited journal to the Head: Student Administration. The draft or submitted article, as the case may be, should be based on the research that the student has conducted for the thesis and be approved by the supervisor if the supervisor is not a co-author. The supervisor shall be responsible for ensuring that the paper is taken through all the processes of revision and resubmission, as may be necessary. Conferment of the degree may be made subject to compliance with the stipulations of this regulation.

(e) Pass requirements

The thesis and examination thereof should prove that the candidate has carried out advanced original research and/or creative work, which make a real and substantial contribution to the discipline of Computer Science.

IT.31 SYLLABI FOR THE SCHOOL OF INFORMATION TECHNOLOGY

This section comprises an alphabetical list of all the modules offered by the School of Information Technology as well as alphabetical lists of the modules offered by other faculties. The alphabetical lists are set out as follows:

- **Column 1**: the module code, which consists of an alpha code (a combination of three capitals which indicate the discipline of the study field) and a numerical code (which indicates the year level and the position of the module in the series).
- **Column 2**: the department or discipline under which the module falls.
- **Column 3**: the credits that apply to the specific module.
- **Column 4**: the language of presentation (A = Afrikaans; E = English) and the number of periods per week during which lectures and/or practicals for the specific module are presented.
- Column 5: the language of presentation (A = Afrikaans; E = English) and whether the module is presented within a flexilearn mode. Note that not all modules are presented by means of flexilearning. Flexilearn modules can be presented, for example, by means of contact tuition (lectures/ practicals as arranged by the department), or WebCT assisted, or as paper-based distance education, or a combination of presentation modes. The flexilearn student has to consult with the department offering the specific flexilearn module before registration to make sure of the mode of presentation.
- **Column 6**: the term (first, second, third or fourth) in which the module is offered (in some cases a semester or a year module is indicated). **Note:** The quarter in which a module is offered is not indicated in the alpha code.

Column across: the name and a short description of the content of the module.

Abbreviations:

lpw =	lectures per week
ppw =	practicals per week
dpw =	discussion classes per week
hpw =	hours per week
hpr =	hours practical
LP =	Lecturer's permission

IT.31.1 THE MODULES LISTED BELOW FALL UNDER THE SCHOOL OF ENGINEERING

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year	
EMK 310	Computer Science	16	E 3 lpw + 1 ppw		Sem 1	
Microproc	cessors 310					
Microprocessors 310 Covers the following areas of the 80x86 IBM PC and compatible computers: microprocessors and supporting chips, memory and memory interfacing, input/output and interfacing, timer and music, interrupts, device drivers, buses, programming in C and assembly language. Prerequisite: ERS 220 or LP						

EOS 284	Computer Science	12	A&E 3 lpw + 1	Sem 2	
			ррw		

Computer Architecture 284

The aim of this module is to gain a deeper understanding of computers by studying their underlying components. The CPU is studied in great detail, covering design decisions such as CISC/RISC architectures, paging and pipelining. Cache, memory and bus architectures will also be scrutinized. IO architectures will be covered (i.e. polling vs. interrupt driven or DMA). Topics such as parallel processing (SIMD) are also touched. A brief review of number systems, combinatorial circuits, and sequential circuits (latches, counters, etc.). To illustrate many of the concepts in practice, the practicals will cover an assembly language. This will cover topics like interrupts, IO and video memory.

Prerequisite: COS 110 or (COS 130/EPE 111/EPE 112)

	ERS 220	Computer Science	16	A&E 3 lpw + 1		Sem 2	
				ppw			

Digital Systems 220

Introduction to digital circuit design, digital representation of numbers, representation and simplification of logic functions, analysis and design of combinatorial circuits, components of sequential circuits, programmable components for combinatorial and sequential logic, microprocessor fundamentals.

IT.31.2 THE MODULES LISTED BELOW FALL UNDER THE SCHOOL FOR INFORMATION TECHNOLOGY

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year	
BIB 111	Information Science	6	A&E 3 lpw + 1 ppw	WebCT	Quarter 1	
Library So	cience 111					
Introductio	n to information service	e provision	: Development of	of informat	ion services,	
information provision and information services in Southern Africa, information infrastructure, national information policy, cooperation and resource sharing.						
BIB 112	Information Science	6	E 3 lpw + 1 ppw	WebCT	Quarter 2	
Library So	cience 112					
Reading a	and reading practices: B	Background	to user studies,	reading a	as a form of	
communication, people as users of information, a general frame of reference for the usage						
of media, reading and media usage in an electronic era, user needs, motives and interests						
and the promotion of reading and literacy. There is also a practical component.						
BIB 121	Information Science	6	A&E 3 lpw + 1	WebCT	Quarter 3	
Library Co	ianaa 121		ррм			
	Library Science 121					
Introduction to the use of information sources: Introduction to sources of information, format						
of information sources, creation of information sources, types of information sources, use of						
	selected printed and electronic reference sources.					
	Information Science	6	E 3 lpw + 1 ppw	I Juevv	Quarter 4	
Library Science 122						
<i>Library and Information services:</i> Community organisation services, MPCCs, telecentres, public libraries, school libraries, national libraries, provincial libraries, academic libraries,						
special libraries, hybrid libraries, virtual information services.						

code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
BIB 211	Information Science	10	E 3 lpw + 3 ppw	WebCT	Quarter 1
Library Sc					
	es: Information service pr				
	(including guidance and	extension	services), biblioth	erapy. The	ere is also a
practical co					
	Information Science	10	E 3 lpw + 3 ppw	WebCT	Quarter 2
Information	cience 212 n and the law: Passing on the Act, Promotion of Acces			Copyright A	ct, Films and
	Information Science	10	E 3 lpw + 3 ppw	WebCT	Quarter 3
	cience 214				
	g: Bibliographic control	, bibliogra	phic standards,	cataloques.	creation of
	nic records, use of Anglo				
componen	t.		0 0		
	Information Science	10	E 3 lpw + 3 ppw	WebCT	Quarter 4
Library Sc	cience 222				
Information	n and reference service	s: Nature	and development	of refere	nce services,
specialized	d information sources, curr	rent awaren	ess services, user	education.	,
	Information Science	15	E 3 lpw + 3 ppw		Quarter 2
Librarv Sc	cience 312				
formats, M serial publi	<i>cataloguing:</i> The online c //ARC21, UNIMARC, Dub ications, electronic source	olin Core, 2 s, coding of	Z39.50, cataloguin bibliographic data	g of video	s, CD-ROMs, 221.
	Information Science	15	E 3 lpw + 3 ppw	WebCT	Quarter 1
	cience 316				
	ataloguing: Introduction to				cation Dewey
	laccification System (DD	C) classific	pation process ve		
					t cataloguing,
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Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
BIB 801	Information Science	120			
Library Sci	ence (coursework): Cours	ework com	ponent		
BIB 890	Information Science				
Library Sci	ence: Dissertation 890				
	Information Science				
Library Sci	ence: Examination 900				
	Information Science				
Library Sci	ence: Thesis 990	1	1		1
CIL 111	School of IT	4	A&E 2 lpw	WebCT	Semester 1
	Literacy 111	-			
	Concepts, Windows 20	003 Intern	et & World Wide	e Web W	hat will word
	do for me?, Gaining Prof				
	nd other resources, Adva				
	n to PowerPoint, Present				
	web & Slide Masters, Inti				
	i web & Slide Masters, Internet of the web and business				
	s and Charts: Delivering				
	P, Tables and Forms: Des	•			
	ase: Reports and Queries	An exemp	tion examination r	nay be writ	ten in the first
week of se	emester 1.				
a		-			
	School of IT	4	A&E 2 lpw	WebCT	Semester 2
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Informatic Why comp Information the Intern Environme relevant fa New trend Content sp No exemp COS 110 Program I Object ori sound pro Prerequis COS 130 Introducti The aim o concepts. igated. Un thinking ar	School of IT on Literacy 121 buters matter to you, Netwon Services), Quality of Infect, Information Seeking ents (include all electronic aculties), Referencing tech s. becific to University of Pret tion examination. Computer Science Design: Introduction 110 ented programming, grap gram design, leading to ite: [IT.2(e)] Computer Science on to Programming 130 f this module is to acquire The theory of these conc derstanding rather than m at the development of inno-	working, Int ormation, E Strategies databases nniques, Us oria. 16 bhical user well struc 16 e a sound l epts, as we emorising i ovative skill	The second secon	es (include and copy rig access, Sp the AIS apper evaluation of event hand I document c computer odologies, order to stin ts in the fiel	the Academic ght, Searching jecific Search plicable to the of information, Sem 1 ling. Teaches ted programs. Sem 1 programming will be invest- nulate creative Id of computer
Informatic Why comp Information the Intern Environme relevant fa New trend Content sp No exemp COS 110 Program I Object ori sound pro Prerequis COS 130 Introducti The aim o concepts. igated. Un thinking ar programm	School of IT on Literacy 121 buters matter to you, Netwon Services), Quality of Infe- tet, Information Seeking ents (include all electronic aculties), Referencing tech s. becific to University of Pret- tion examination. Computer Science Design: Introduction 110 ented programming, grap gram design, leading to ite: [IT.2(e)] Computer Science on to Programming 130 f this module is to acquire The theory of these conc derstanding rather than m ad the development of inno- ing. The C programming la	working, Information, E Strategies databases aniques, Us oria. 16 bhical user well struct 16 e a sound l epts, as we emorising i ovative skill anguage is	The second secon	es (include and copy rig access, Sp the AIS apper evaluation of event hand I document c computer odologies, order to stin ts in the fiel these conc	the Academic ght, Searching pecific Search plicable to the of information, Sem 1 lling. Teaches ted programs. Sem 1 programming will be invest- nulate creative ld of computer cepts.
Informatic Why comp Information the Intern Environme relevant fa New trends Content sp No exemp COS 110 Program I Object ori sound pro Prerequis COS 130 Introducti The aim o concepts. igated. Un thinking ar programmi	School of IT on Literacy 121 buters matter to you, Netwon n Services), Quality of Infe- tet, Information Seeking ents (include all electronic aculties), Referencing tech s. becific to University of Pret- tion examination. Computer Science Design: Introduction 110 ented programming, grap- gram design, leading to ite: [IT.2(e)] Computer Science on to Programming 130 f this module is to acquire The theory of these conc derstanding rather than main the development of inmi- ing. The C programming lag pleting this module, a stu-	working, Information, E Strategies databases iniques, Us oria. 16 bhical user well struct 16 e a sound l eepts, as we emorising i povative skill anguage is udent shou	The second secon	es (include and copy rig access, Sp the AIS apper evaluation of event hand I document c computer odologies, order to stin ts in the fie these conc ign and wr	the Academic ght, Searching pecific Search plicable to the of information, Sem 1 lling. Teaches ted programs. Sem 1 programming will be invest- nulate creative ld of computer cepts.
Informatic Why comp Information the Intern Environme relevant fa New trend Content sp No exemp COS 110 Program I Object ori sound pro Prerequis COS 130 Introducti The aim o concepts. igated. Un thinking ar programmi After comp	School of IT on Literacy 121 buters matter to you, Netwon Services), Quality of Inference, Information Seeking ents (include all electronic aculties), Referencing tech s. becific to University of Pretection examination. Computer Science Design: Introduction 110 ented programming, grap ogram design, leading to ite: [IT.2(e)] Computer Science on to Programming 130 f this module is to acquire The theory of these conce derstanding rather than m and the development of inne- ing. The C programming Is poleting this module, a stu- ograms using the C langu	working, Information, E Strategies databases iniques, Us oria. 16 bhical user well struct 16 e a sound l epts, as we emorising i povative skill anguage is udent shou age, be fan	The provided and the pr	es (include and copy rig access, Sp the AIS apper evaluation of event hand I document c computer odologies, order to stin ts in the fie these conc ign and wr c data struc	the Academic ght, Searching pecific Search plicable to the of information, Sem 1 lling. Teaches ted programs. Sem 1 r programming will be invest- nulate creative ld of computer septs. rite structured, tures, pointers
Informatic Why comp Information the Intern Environme relevant fa New trend: Content sp No exemp COS 110 Program I Object ori sound pro Prerequis COS 130 Introducti The aim o concepts. igated. Un thinking ar programmi After comp efficient pr and file pro	School of IT on Literacy 121 buters matter to you, Netwon n Services), Quality of Infe- tet, Information Seeking ents (include all electronic aculties), Referencing tech s. becific to University of Pret- tion examination. Computer Science Design: Introduction 110 ented programming, grap- gram design, leading to ite: [IT.2(e)] Computer Science on to Programming 130 f this module is to acquire The theory of these conc derstanding rather than main the development of inmi- ing. The C programming lag pleting this module, a stu-	working, Information, E Strategies databases iniques, Us oria. 16 bhical user well struct 16 e a sound l epts, as we emorising i povative skill anguage is udent shou age, be fan	The provided and the pr	es (include and copy rig access, Sp the AIS apper evaluation of event hand I document c computer odologies, order to stin ts in the fie these conc ign and wr c data struc	the Academic ght, Searching pecific Search plicable to the of information, Sem 1 lling. Teaches ted programs. Sem 1 r programming will be invest- nulate creative ld of computer septs. rite structured, tures, pointers

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
COS 131	Computer Science	16	A&E 4 lpw + 1 ppw		Sem 1
Introducti	on to Programming 131				
	of this module is to acquire				
concepts a	and an introductory knowle	edge of dat	a structures. The f	theory of th	ese concepts,
	as design methodologies				
	g is emphasized in order				
innovative	skills amongst student	s in the	field of compute	r programi	ming. The C
	ing language is used to ir				the module a
	duction to object-oriented				
	pleting this module, a stu				
	rograms using the C pro , pointers and file process				
	tures and object-orientation			KIIOWIEUgo	
	Computer Science	16	A&E 4 lpw + 1		Sem 2
	•		ppw		
	c Computer Systems 140				
	ale introduces the principle				
	d internet as well as to dist				
	nd server side programmin				
01	ograms that require remot		,	0	,
	appropriate technology. T anguages are also studied				
	anguages are also studied				
specified.	an the necessary soliwe		idware required t		the concepts
	who pass this module may	not enrol fo	or INY 324		
	ites: COS 110 or (COS 13			2)	
	Computer Science	8	A&E 2 lpw + 1	/	Sem 1
	-		ppw		
	on to Computer Science				
	le introduces concepts a				
	ftware and communication			n understai	nding of basic
	c concepts, number system			1	0
COS 212	Computer Science	16	A&E 4 lpw + 1		Sem 2
Data Stru	ctures and Algorithms 2 ⁴	12	ppw		
	ry objective of this module		duce students to th	ne classic d	lata structures
	thms found in computer p				
	correct and reusable softw				
	signed for the classic data				
	that can be made to the i	,	· ·		01
	are discussed as well as				
	porithms for sorting, search				
	Recursion is also dealt				
	. The meaning of algorith				
	of computing through exar				
time.					
Prerequis	ite: COS 110				

Prerequisite: COS 110

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
COS 214	Computer Science	16	A&E 4 lpw + 1 ppw		Sem 1
This modu the theory code. Popu	tterns 214 le teaches programming and implementation of de ular object-oriented langua ites: COS 110 or [(COS 1	esign patter	gn patterns. The fo ns, in order to writ ed as implementati	e modular on medium	and re-usable
COS 222	Computer Science	16	A&E 4 lpw + 1	140]	Sem 1
Fundamen mechanism Processor issues of manageme	ent, file systems and secur	in this mo analysed. t, deadloo	dule. Real Time, This module also c	Multimedia	and Multiple nodern design
	ite:COS 110 or LP Computer Science	16	A&E 4 lpw + 1 ppw		Sem 2
variety of examples.	nese programs can be tr classic control and sync ite: COS 110 or LP				
	Computer Science	27	E 1 lpw + 1 ppw		Year
The modu industrial s process ar tackling dif in software group. To different re orientation The focus groups of a	Engineering 301 le exposes students to p scale. Overall goals of the od to appreciate its compli- ferent stages of the softw e engineering. To experi- take responsibility for a v equirements for these. To -based software product. of the module is on a pro approximately 4 students. ite: COS 214 or LP.	e module ar exity. To be are lifecycle ence the a variety of ro o complete	e: To understand e exposed to a var e. To become fami idvantages and pro- bles within a group the development	the softwar iety of metiliar with the roblems of b, and to u c of a fairly	e engineering nodologies for e latest trends working in a nderstand the v large object
	Computer Science	18	E 2 lpw + 1 ppw		Sem 1
In this more recognition computation and evolue practical as	ntelligence 314 dule, classical themes in a, machine learning, etc. a onal intelligence, with refe tionary algorithms, etc. ssignments. ites: COS 214 and WTW	A particular erence to r Concepts	focus is placed o neural networks, ir	n the modentelligent ag	ern AI term of gents, genetic

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
COS 326	Computer Science	18	E 1 lpw + 1 ppw		Sem 2
Database	Systems 326			•	
This modu	le builds on a prior intro	ductory mo	dule on database	technology	and provides
more adva	nced theoretical and prac	tical study r	naterial.	0,	·
Prereguis	ites: INF 214 or LP	,			
	Computer Science	18	E 2 lpw + 1 ppw		Sem 1
Computer	Networks 332	1		1	1
The object	tive of this module is	to acqua	int the student v	with the te	erminology of
	ation systems and to esta				
	l in such communication				
such envir	onments. The study mate	erial include	es: concepts and te	erminology,	the hierarchy
of protocol	s according to the OSI ar	nd TCP/IP r	nodels, protocols o	n the data	level, physical
	network level as well as				
	olves programming TCP/				
	ite: COS 214 or LP		0 0	0 0	
COS 333	Computer Science	18	E 2 lpw + 1 ppw		Sem 2
Programn	ning Languages 333				
The overa	Il goal of the module is to	o survey ch	aracteristics of the	e most impo	ortant kinds of
	ng languages. Three pa				
	k, semantics and implem				
	d, critiqued and cross-con				
	se of at least one new stat				. ,
	re given practical exercis				ge paradigms.
	in scripting languages. Pr			0 0 0	
COS 341	Computer Science	18	E 2 lpw + 1 ppw		Sem 1
Compiler	Construction 341				
The modul	e illustrates how to build a	a complete	compiler for a mini-	-language b	based on Java
using a co	mpiler generator. It cove	rs LL and I	R parsing, abstra	ct syntax tr	ees, semantic
analysis, e	error recovery and code	generation.	Emphasis is place	ed on back	-end analysis
including	intermediate codes, bas	ic blocks,	register allocation	, liveness	analysis and
garbage co	ollection.				
Prerequis	ite: COS 212				
	Computer Science	18	E 2 lpw + 1 ppw		Sem 2
	Information Technology				
	nt of this module is spec				
	rends in IT. The module f	ocuses on	relevant topics that	vary from y	ear to year at
	ion of the department.				
	ite: COS 110		-		
	Computer Science	18	E 2 lpw + 1 ppw		Sem 2
	Graphics 344				
	f this module is to acquire				
	graphics and basic compo				
	phics systems and mo				
	objects and transformation				
	advanced concepts, sucl				
	. The module includes a				
	knowledge in computer			phics librar	ry and the C
	ng language will be used		oose.		
Prerequis	ites: COS 214 and WTW	126			

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
IMY 761	Information Science	40			
	ultimedia 761				
Closed mo	odule				
Developme	ent and production of a m	ultimedia p	roduct; product life	e-cycle mar	agement and
documenta	ation; the student submit	ts a propo	sal which is eval	luated and	if approved,
	a working multimedia produ				
IMY 771	Information Science	20			
Multimedi	a Trends				
History of	f multimedia ideas and	technolog	y; current trend	s in multi	media, latest
technologi	es and future trends of mu	Itimedia.			
IMY 772	Information Science	20			
Hypermed	lia and Mark-up language	es			
A study of	hypermedia systems, spe	cifically ada	aptive hypermedia	systems, a	s well as data
modelling,	storage and retrieval, da	itabase stru	ictures and metac	lata. A stuc	dy of different
mark-up la	anguages and their role	in multime	dia products with	the emph	asis on data
structuring	, hyper linking theories and	d models.			
IMY 773	Information Science	20			
Multimedi	a technology				
The theory	and practice of multimed	ia technolog	gy, such as compre	ession techi	niques; image
	; delivery systems such				
interaction	with virtual worlds and o	other releva	int technologies. A	An overview	/ of important
	a standards.				
IMY 774	Information Science	20			
	vironments				
Theory an	nd components of virtual	l environme	ents (VE); humar	interactio	n in VE; VE
	es; lighting techniques, pro		apes and other rela	ited concep	its.
	Information Science	20			
	a training and education				
	d practice of multimedia sy	/stems aime	ed at training and e	ducation. A	n overview of
learning th			1		r
	Information Science	20			
	theory and practice				
	animation theory and tec				
	s (e.g. movement, express	ions), huma	an artefacts (e.g. c	othing, hair	dressing) and
	ed themes.				r
_	Information Science	20			
	I sound technology				
	al and practical study of t			a products,	, compression
	s, and standards such as N		MPEG.	1	1
	Information Science	20		1	<u> </u>
	omputer interaction	.	amanulan inter	interf	
	cal and practical study of	numan-c וו	omputer interactio	m, interrace	e design and
usability te		400		r	
IMY 801	Information Science	120		<u> </u>	
	(coursework): Coursewor	к compone	nt 80'i	r	
	Information Science			L	
Multimedia	a: Dissertation 890				

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
IMY 895	Information Science	120			
Multimedia	a (coursework): Mini-disser	tation 895			
INF 112	Informatics	10	A&E 3 lpw		Sem 1
Informatio	s 112				
processing information	n to information systems, g, output, software: syster n, telecommunications ar g systems, management in	ns and app nd network	lication software, s, the Internet a	organizatio nd Intranet	n of data and Transaction
tion syster maintenan	ns in business and socief ce and revision.				
	ite: [IT.2(c)]				
INF 153	Informatics	5	A&E 2 lpw		Sem 1
Informatio	s 153				
	<pre>/stems theory, creative pro ite: [IT.2(g)]</pre>	blem solvir	ig, softsystems me	thodology.	
INF 154	Informatics	5	A&E 1 lpw + 2 ppw		Sem 1
Informatio	s 154	l.		1	1
Introductio	n to programming. ite: [IT.2(g)]				
Frerequis	Informatics	5			Sem 2
Informatio		5	A&E 2 lpw		Selli Z
systems a Prerequis	ms analyst, systems d nalysis methods, process i te: INF 153 GS	modelling.	. .	systems	
INF 164	Informatics	5	A&E 1 lpw + 2 ppw		Sem 2
	cs 164 programming, use of a co ite: INF 154 GS	mputer-aide	ed software engine	ering tool.	
INF 214	Informatics	14	A&E 3 lpw + 2 ppw		Sem 1
modelling, database object-orie design.	es 214 design: the relational mod normalization, data bas design. Databases: adva nted databases, data bas ites: CIL 111, 121 (previou	se develop nced entity e developm	ment life cycle; relationship mod ent life cycle, adva	practical ir elling and	ntroduction to normalization
INF 261	Informatics	7	A&E 1 lpw + 2 ppw		Sem 2
database databases	management; transaction	levelopmen	ts: distributed of	it process latabases,	

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
INF 225	Informatics	14	A&E 3 lpw + 2 ppw		Sem 2
Information					
Systems i	nfrastructure and integration	on.			
INF 271	Informatics	14	A&E 2 lpw		Year
output des design; pr tools.	analysis. Systems desigr sign, interface design; Sys oject management, system	stems desig m impleme	gn: internal controls ntation, use of com	s, program puter-aideo	design, objec d developmen
[IT.2(g)]	sites: CIL 111, 121 (prev	IOUSIY CIL	171 – 174) and in	IF 163 and	I INF 164 and
INF 272	Informatics	14	A&E 2 ppw + exercise class		Year
	mputer-aided developmen sites: CIL 111, 121 (prev				I INF 164 and
INF 315	Informatics	15	A&E 3 lpw + 2 ppw		Sem 1
a busines: Prerequis				itormation :	
INF 324	Informatics	15	A&E 3 lpw + 2 ppw		Sem 2
	cs 324 n systems in organisatio ian. IT end-user relationsh			nsibilities, t	he role of the
	sites: INF 261, 262, 271, 2		lagement.		
INF 354	Informatics	15	A&E 2 lpw + 2 ppw		Sem 1
	cs 354 programming sites: INF 261, 262, 271, 2	272			
INF 370	Informatics	30	A&E 2 lpw + 2 ppw		Year
Information	cs 370				4
computer-	n of systems analysis ar aided development tools. sites: INF 261, 262, 271, 2	0	n a practical proje	ect, prograr	nming, use o
INL 111	Information Science	6	A&E 3 lpw + ½ ppw	WebCT	Quarter 1
An introduced concepts,	on Science 111 uction to Information Sci information in a developm he influence thereof on ens.	nent contex	mation and the ir t, the meaning of tl	ne informat	ion community

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
The lifecy	cle of information: proce	esses, proc	lucts and role pl	ayers, deso	cription of the
	n mediator, introduction to	value add	ing. Practical: An i	ntroduction	to web-base
0	th WebCT				
INL 112	Information Science	6	A&E 3 lpw + ½ ppw	WebCT	Quarter 2
Informati	on Science 112				
Represen	tation and organization of	information	: Information object	cts, docume	ent-surrogates
databases	s, multimedia, metadata. T	he use of D	ublin Core as met	adata stand	dard. Practica
Basic HTM	/IL and the design of a well	page with	metadata.		
INL 121	Information Science	6	A&E 3 lpw + 1 ppw	WebCT	Quarter 3
Informati	on Science 121				÷
Informatio	n technology: An ov	verview o	f computer ha	rdware a	nd software
telecomm	unication technology, LA	N, WAN a	nd Intranet, the	information	highway, th
	nd WWW, and computer e				5 5
Practical:	Multimedia and the web, a	nd style she	eets.		
INL 122	Information Science	6	A&E 3 lpw + 1 ppw	WebCT	Quarter 4
INL 211 Information information industry a vocabular evaluation	Information Science Information Science on Science 211 <i>CIL 121</i> <i>n retrieval</i> : The theoretical and facets of online sear y problems, database ar of search results and infor- ted information retrieval. Information Science	ching such d search e	as search strate engine selection,	egies, searc database s	ch techniques structures, th
		-	ppw		
*Requires Informatio paradigms socio-cogi database † Indicate	on Science 212 INL 211† n Seeking: Introduction to s, namely the traditional or nitive approaches. Releva design and information set s that the module INL 21	systems ba ince is cover eking behav	ased approach, us ered as a key iss /iour are covered i	er-centered ue. Entity r n the praction	, cognitive an representation cal sessions.
INL 212.		4.0			
INL 221	Information Science	10	A&E 3 lpw + 3 ppw	WebCT	Quarter 3
Infoprene	on Science 221 urship and information et o of the information pr				

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
start an o	own information business	, the busi	ness plan, the m	narketing a	nd pricing of
informatio	n products and services, th	he various	legal and ethical a	spects with	regard to the
infopreneu			0	•	U U
INL 311	Information Science	15	A&E 3 lpw + 3 ppw	WebCT	Quarter 1
Informatio	on Science 311	,			
Publication	n formats in the digital envi	<i>ironment:</i> T	he module studies	the terrain	of multimedia,
hypermed	ia and hypertext fiction wi	ith referenc	e to the theories	of e.g. Lan	dow, Nielsen,
Aarseth a	nd Hall. The method in w	hich the In	ternet and WWW	influence t	he publication
	ling of digital information				
	aper based and digital text				
INL 321	Information Science	15	A&E 3 lpw + 3	WebCT	Quarter 3
		-	ppw		
Informatio	on Science 321	1			
	n management: Tools and	d technique	s of information n	nanagemen	t strategy for
	n management in organisa				
	mentation of an informati				
•	housing and data mining.	on ponoy,		internation	i concatation,
INL 802	Information Science	50			
	on and Knowledge Manag		2		
	le focuses on an in-depth			complex o	onconts in the
	ormation and Knowledge M			complex c	
	0	20	IL.	1	
	on ethics and information				
	alle focuses on the relation		on noverty and ir	formation	and the offect
	on the lives of people in				
	the philosophical backgrou				
	how this Western con				
	n rich and information poor				between the
	Information Science	20		1	
	on for development 804	20			
	ule focuses on human	developme	nt and the impo	rtance of	disseminating
	n effectively to developir				
	ation, the role of commun				
	ppment project, elements of				
	n Resource Centres in dise			igii as well	
INL 806	Information Science	20			
		20			
	on society 806 odule the technological, so	onial and a	lobalization conco	to of the d	wolonmont of
	n in societies is investigate ce information products; re				
			lation services, an		Juar cilizens.
INL 809	Information Science	20			
Informetr		0			
	Knowledge of Statistics –				
	s investigates the qua				
	, particularly those using te		orates the old field	a of Bibliom	etrics, and the
	of Cybermetrics and Web				
l opics co	vered are: citation indexing	 citation n 	etworks and citation	on matrices	, bibliographic

Module	Department	Credits	Full-time	Flexi-	Quarter
code				learning	Semester Year
coupling,	co-citation graphs, sc	ience poli	cy applications,	informetrie	
approximat	U 1	•	, , , , , , , , , , , , , , , , , , ,		
	Information Science	20			
Competitiv	ve intelligence 810	-		1	1
	best thing to knowing all a	about vour d	own business is to	know all a	bout the other
	siness" – John D Rockefel				
	g an effective competitiv		nce program is a	n integral	part of every
	that wants to survive in the				
	telligence strategy, inte				
	e resources, competitive te				,
	Information Science	20			
-	decision-making theory	-			
	decision-making theory		rmation and kno	wledge ma	anagement is
	depth. Processes and sys				
	edge are analysed conc			0	
	d scenario building are als	•	•	y. organio	
	Information Science	30	u.		
	ion and retrieval of infor)		
	I approaches for the or			information	are studied
	netadata, ontologies and ta			internation	
•	on of information as well a		access and search	ing of desir	ed information
	by individuals.	o otoruge, t		ing of acoin	
	Information Science	20			
	ent of information centre				
	le covers a study of infor		tres as husiness (ragnisation	s The focus
	s on the survival of inform				
	ent, business processes, re				
	t of technological innova				
information	0		modern business	practices,	locussing on
	Information Science				
	Science: Dissertation 890	0			
		120			
	Science: Mini-dissertation	-			
	Information Science	1 090			
		<u> </u>			
	Science: Examination 90	U			
	Information Science				
	Science: Thesis 990	•			
INY 122	Information Science	6	A&E 3 lpw + 1		Quarter 4
Publishing	122	1	ppw	1	I
	requires departmental sele	oction			
	ction to publishing studie		dule provides a	hasic intro	duction to the
	industry. The following a				
	value-chain; processes, t				
	e different sectors of the bo				
	Information Science		E 3 lpw + 1 ppw	WebC I	Quarter 4
	n and Knowledge Managed essence of information a			mpact of so	ocio-economic

code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
	current problems and c				t, information
	ent in various milieus, res	ponsibilities		manager.	T
	Information Science	6	E 2 lpw + 2 ppw		Sem 1
	languages 171				
	 requires departmental se 	lection and	closed to COS 14	0, COS 214	4 and INY 324
students.					
	of mark-up languages in the				
•	ucture and appearance of	documents	; the study of HTM	L, CSS; an	d XHTML, the
Ŭ	f web sites.				
INY 172	Information Science	6	E 2 lpw + 2 ppw		Sem 2
	ia for the Web 172				
	- requires departmental se				
	of multimedia in inform				
	nes; introduction to basic				
	levelopment environments				
INY 213	Information Science	10	E 3 lpw + 2 ppw		Quarter 2
Publishir					
	requires departmental se				
	al and production dimensi	,	U U	al position	ing of graphi
	production and printing wi				
The follo	wing themes are addres	sed: an int	roduction to grap	hic design	practice; the
historia al					
nistorical	development of the relati	onship betv	veen reproduction	and printin	ng innovation
	development of the relati nic design styles; the use				
and graph		of visual ele	ements in order to	add value i	to the editoria
and graph handling	nic design styles; the use of publications; the manag he publishing process.	of visual ele	ements in order to	add value i	to the editoria
and graph handling	nic design styles; the use of publications; the manag	of visual ele	ements in order to	add value i	to the editoria
and graph handling phase in t	nic design styles; the use of publications; the manag he publishing process. Information Science	of visual ele ement role	ements in order to of the (commission	add value i	to the editoria regarding this
and graph handling o phase in t INY 214 Publishir	nic design styles; the use of publications; the manag he publishing process. Information Science	of visual ele ement role 15	ements in order to of the (commission	add value i	to the editoria regarding thi
and graph handling phase in t INY 214 Publishir *Closed –	hic design styles; the use of publications; the manag he publishing process. Information Science ng 214	of visual ele ement role 15 ection.	ements in order to of the (commission E 2 ppw	add value t ning) editor	to the editoria regarding thi
and graph handling phase in t INY 214 Publishir *Closed – Practical:	nic design styles; the use of publications; the manag he publishing process. Information Science og 214 requires departmental set	of visual ele ement role 15 <i>lection.</i> eks student	ements in order to of the (commission E 2 ppw s are introduced to	add value f ning) editor	to the editoria regarding this Sem 2
and graph handling of phase in the INY 214 Publishir *Closed – Practical: DTP softw	hic design styles; the use of publications; the manag he publishing process. Information Science og 214 requires departmental set During the first seven we	of visual ele ement role 15 <i>lection.</i> eks student pects of the	ements in order to of the (commission E 2 ppw s are introduced to e production proce	add value t ning) editor selected a ess. During	to the editoria regarding this Sem 2 applications of the following
and graph handling of phase in the INY 214 Publishir *Closed – Practical: DTP softs seven we	hic design styles; the use of publications; the manag he publishing process. Information Science og 214 requires departmental set During the first seven we ware and the practical as	of visual ele ement role 15 <i>lection.</i> eks student pects of the	ements in order to of the (commission E 2 ppw s are introduced to e production proce	add value t ning) editor selected a ess. During	to the editoria regarding thi Sem 2 applications of the following
and graph handling of phase in t INY 214 Publishir *Closed – Practical: DTP softw seven we screen an	hic design styles; the use of publications; the manag he publishing process. Information Science og 214 requires departmental set During the first seven we ware and the practical as eks students are equipped	of visual ele ement role 15 <i>lection.</i> eks student pects of the	ements in order to of the (commission E 2 ppw s are introduced to e production proce	add value f ning) editor selected a ess. During litting, includ	to the editoria regarding this Sem 2 applications of the following
and graph handling of phase in t INY 214 Publishir *Closed – Practical: DTP soft seven we screen an INY 215	hic design styles; the use of publications; the manag he publishing process. Information Science g 214 requires departmental set During the first seven we ware and the practical as eks students are equipped d technical exercises.	of visual ele ement role 15 ection. eks student pects of the l with practic	ements in order to of the (commission E 2 ppw s are introduced to e production proce cal skills in copy-ec	add value f ning) editor selected a ess. During litting, includ	to the editoria regarding thi Sem 2 applications c the following ding editing of
and graph handling of phase in t INY 214 Publishir *Closed – Practical: DTP soft seven we screen an INY 215 System c	hic design styles; the use of publications; the manag he publishing process. Information Science 19 214 During the first seven we ware and the practical as eks students are equipped d technical exercises. Information Science Revelopment 215	of visual ele ement role 15 ection. eks student pects of the with practice 10	ements in order to of the (commission E 2 ppw s are introduced to e production proce cal skills in copy-ec	add value f ning) editor selected a ess. During litting, includ	to the editoria regarding thi Sem 2 applications c the following ding editing of
and graph handling of phase in t INY 214 Publishir *Closed – Practical: DTP soft seven we screen an INY 215 System c *Closed –	hic design styles; the use of publications; the manag he publishing process. Information Science og 214 Puring the first seven we ware and the practical as eks students are equipped d technical exercises. Information Science Revelopment 215 Prequires departmental set	of visual ele ement role 15 ection. eks student pects of the l with practic 10 ection.	ements in order to of the (commission E 2 ppw s are introduced to e production proce cal skills in copy-ec E 3 lpw + 3 ppw	add value f ning) editor o selected a ess. During liting, inclue	to the editoria regarding thi Sem 2 applications of the following ding editing of Quarter 1
and graph handling of phase in t INY 214 Publishir *Closed – Practical: DTP softw seven we screen an INY 215 System c *Closed – Database	hic design styles; the use of publications; the manag he publishing process. Information Science og 214 requires departmental set During the first seven we ware and the practical as eks students are equipped d technical exercises. Information Science levelopment 215 requires departmental set construction, project pla	of visual ele ement role 15 ection. eks student pects of the l with practice 10 ection. anning and	ements in order to of the (commission E 2 ppw s are introduced to e production proce cal skills in copy-ec E 3 lpw + 3 ppw management, def	add value faing) editor	to the editoria regarding thi Sem 2 applications of the following ding editing of Quarter 1
and graph handling of phase in the INY 214 Publishin *Closed – Practical: DTP softw seven we screen an INY 215 System of *Closed – Database needs, sy	hic design styles; the use of publications; the manag he publishing process. Information Science og 214 requires departmental set During the first seven we ware and the practical as eks students are equipped d technical exercises. Information Science levelopment 215 requires departmental set construction, project pla stems specifications and a	of visual ele ement role 15 ection. eks student pects of the l with practic 10 ection. anning and in introductio	ements in order to of the (commission E 2 ppw s are introduced to e production proce cal skills in copy-ed E 3 lpw + 3 ppw management, det on to interface devo	add value faing) editor	to the editoria regarding thi Sem 2 applications of the following ding editing of Quarter 1 of consume
and graph handling of phase in 1 INY 214 Publishin *Closed – Practical: DTP softw seven we screen an INY 215 System of *Closed – Database needs, sy INY 216	hic design styles; the use of publications; the manag he publishing process. Information Science og 214 requires departmental ser During the first seven we ware and the practical as eks students are equipped d technical exercises. Information Science levelopment 215 requires departmental ser construction, project pla stems specifications and a Information Science	of visual ele ement role 15 ection. eks student pects of the l with practice 10 ection. anning and	ements in order to of the (commission E 2 ppw s are introduced to e production proce cal skills in copy-ec E 3 lpw + 3 ppw management, def	add value faing) editor	to the editoria regarding thi Sem 2 applications of the following ding editing of Quarter 1
and graph handling of phase in the INY 214 Publishint *Closed – Practical: DTP softw seven we screen an INY 215 System of *Closed – Database needs, sy INY 216 Multimed	hic design styles; the use of publications; the manag he publishing process. Information Science og 214 requires departmental set During the first seven we ware and the practical as eks students are equipped d technical exercises. Information Science levelopment 215 requires departmental set construction, project pla stems specifications and a Information Science lia 216	of visual ele ement role 15 ection. eks student pects of the l with practic 10 ection. anning and in introductio 10	ements in order to of the (commission E 2 ppw s are introduced to e production proce cal skills in copy-ed E 3 lpw + 3 ppw management, det on to interface devo	add value faing) editor	to the editoria regarding thi Sem 2 applications of the following ding editing of Quarter 1 of consume
and graph handling of phase in the INY 214 Publishin *Closed – Practical: DTP softh seven we screen an INY 215 System of *Closed – Database needs, sy INY 216 Multimed *Closed –	hic design styles; the use of publications; the manag he publishing process. Information Science og 214 requires departmental set During the first seven we ware and the practical as eks students are equipped d technical exercises. Information Science levelopment 215 requires departmental set construction, project pla stems specifications and a Information Science ia 216 requires departmental set	of visual ele ement role 15 ection. eks student pects of the with practic 10 ection. anning and in introductio 10 ection	ements in order to of the (commission E 2 ppw s are introduced to e production proce cal skills in copy-ed E 3 lpw + 3 ppw management, def on to interface dev E 3 lpw + 3 ppw	add value faing) editor	to the editoria regarding thi Sem 2 applications of the following ding editing of Quarter 1 of consume Quarter 2
and graph handling of phase in 1 INY 214 Publishir *Closed – DTP softh seven we screen an INY 215 System of *Closed – Database needs, sy INY 216 Multimed *Closed – An introd	hic design styles; the use of publications; the manag he publishing process. Information Science g 214 requires departmental set During the first seven we ware and the practical as eks students are equipped d technical exercises. Information Science levelopment 215 requires departmental set construction, project pla stems specifications and a Information Science ia 216 requires departmental set uction to the theory of m	of visual ele ement role 15 ection. eks student pects of the with practic 10 ection. anning and in introduction 10 ection ultimedia, h	ements in order to of the (commission E 2 ppw s are introduced to e production proce- cal skills in copy-ed E 3 lpw + 3 ppw management, def on to interface deve E 3 lpw + 3 ppw	add value faing) editor	to the editoria regarding thi Sem 2 applications of the following ding editing of Quarter 1 of consume Quarter 2
and graph handling of phase in 1 INY 214 Publishir *Closed – DTP softh seven we screen an INY 215 System of *Closed – Database needs, sy INY 216 Multimed *Closed – An introd cludes the	hic design styles; the use of publications; the manag he publishing process. Information Science gg 214 requires departmental set During the first seven we ware and the practical as eks students are equipped d technical exercises. Information Science levelopment 215 requires departmental set construction, project pla stems specifications and a Information Science lia 216 requires departmental set uction to the theory of me evaluation of hypermedia	of visual ele ement role 15 ection. eks student pects of the ection. 10 ection. introduction introduction detabases.	ements in order to of the (commission E 2 ppw s are introduced to e production proce- cal skills in copy-ed E 3 lpw + 3 ppw management, det on to interface deve E 3 lpw + 3 ppw	add value finng) editor	to the editoria regarding thi Sem 2 applications of the following ding editing of Quarter 1 of consume Quarter 2 tion, which in
and graph handling of phase in 1 INY 214 Publishir *Closed – DTP soft seven we screen an INY 215 System of *Closed – Database needs, sy INY 216 Multimed *Closed – An introd cludes the The influe	hic design styles; the use of publications; the manag he publishing process. Information Science ig 214 requires departmental set During the first seven we ware and the practical as eks students are equipped d technical exercises. Information Science levelopment 215 requires departmental set construction, project pla stems specifications and a Information Science lia 216 requires departmental set uction to the theory of m e evaluation of hypermedia ence of digital (hyper) media	of visual ele ement role 15 ection. eks student pects of the eks student in praction 10 ection. anning and in introduction 10 ection ultimedia, h a databases. lia on the in	ements in order to of the (commission E 2 ppw s are introduced to e production proce- cal skills in copy-ed E 3 lpw + 3 ppw management, det on to interface deve E 3 lpw + 3 ppw	add value finng) editor	to the editoria regarding thi Sem 2 applications of the following ding editing of Quarter 1 of consume Quarter 2 tion, which in
and graph handling of phase in t INY 214 Publishir *Closed – DTP softt seven we screen an INY 215 System c *Closed – Database needs, sy INY 216 Multimed cludes the The influe terms of e	hic design styles; the use of publications; the manag he publishing process. Information Science og 214 Prequires departmental set During the first seven we ware and the practical as eks students are equipped d technical exercises. Information Science Revelopment 215 Prequires departmental set construction, project pla stems specifications and a Information Science ia 216 Prequires departmental set construction of plast set set as the set of the theory of m a evaluation of hypermedia ence of digital (hyper) media texts, intranets and porta	of visual ele ement role 15 ection. eks student pects of the with praction 10 ection. anning and in introduction 10 ection ultimedia, h databases. lia on the in ls.	ements in order to of the (commission E 2 ppw s are introduced to e production proce cal skills in copy-ed E 3 lpw + 3 ppw management, det on to interface deve E 3 lpw + 3 ppw sypermedia and hy formation landsca	add value i ning) editor o selected a ess. During liting, includ termination elopment.	to the editoria regarding thi Sem 2 applications of the following ding editing of Quarter 1 of consume Quarter 2 tion, which in studied, e.g. in
and graph handling of phase in t INY 214 Publishir *Closed – Practical: DTP softw seven we screen an INY 215 System c *Closed – Database needs, sy INY 216 Multimed *Closed – An introd cludes the The influe terms of e INY 218	hic design styles; the use of publications; the manag he publishing process. Information Science og 214 Prequires departmental set During the first seven we ware and the practical as eks students are equipped d technical exercises. Information Science tevelopment 215 Prequires departmental set construction, project pla stems specifications and a Information Science ia 216 Prequires departmental set uction to the theory of me e evaluation of hypermedia ence of digital (hyper) med e-texts, intranets and porta Information Science	of visual ele ement role 15 ection. eks student pects of the eks student in praction 10 ection. anning and in introduction 10 ection ultimedia, h a databases. lia on the in	ements in order to of the (commission E 2 ppw s are introduced to e production proce- cal skills in copy-ed E 3 lpw + 3 ppw management, det on to interface deve E 3 lpw + 3 ppw	add value i ning) editor o selected a ess. During liting, includ termination elopment.	to the editoria regarding this Sem 2 applications of the following ding editing of Quarter 1 of consume Quarter 2 tion, which in
and graph handling of phase in the INY 214 Publishir *Closed – Practical: DTP softty seven we screen an INY 215 System of *Closed – Database needs, sy INY 216 Multimed *Closed – An introd cludes the the influe terms of e INY 218 Informati	hic design styles; the use of publications; the manag he publishing process. Information Science og 214 requires departmental set During the first seven we ware and the practical as eks students are equipped d technical exercises. Information Science tevelopment 215 requires departmental set construction, project pla stems specifications and a Information Science ia 216 requires departmental set uction to the theory of me e evaluation of hypermedia ence of digital (hyper) medi- texts, intranets and porta Information Science on and the law 218	of visual ele ement role 15 ection. eks student pects of the vith practice 10 ection. unning and in introduction ultimedia, h idatabases. lia on the in ls. 10	ements in order to of the (commission E 2 ppw s are introduced to e production proce cal skills in copy-ec E 3 lpw + 3 ppw management, det on to interface deve E 3 lpw + 3 ppw hypermedia and hy formation landscap	add value f ning) editor o selected a ess. During liting, includ termination elopment. // // // // // // // // // // // // //	to the editoria regarding thi Sem 2 applications of the followin ding editing o Quarter 1 of consume Quarter 2 tion, which in studied, e.g. i Quarter 2
and graph handling of phase in t INY 214 Publishir *Closed – Practical: DTP softty seven we screen an INY 215 System of *Closed – Database needs, sy INY 216 Multimed *Closed – An introd cludes the The influe terms of e INY 218 Informati Passing of	hic design styles; the use of publications; the manag he publishing process. Information Science og 214 Prequires departmental set During the first seven we ware and the practical as eks students are equipped d technical exercises. Information Science tevelopment 215 Prequires departmental set construction, project pla stems specifications and a Information Science ia 216 Prequires departmental set uction to the theory of me e evaluation of hypermedia ence of digital (hyper) med e-texts, intranets and porta Information Science	of visual ele ement role 15 ection. eks student pects of the vith practice 10 ection. unning and in introduction ultimedia, h idatabases. lia on the in ls. 10	ements in order to of the (commission E 2 ppw s are introduced to e production proce cal skills in copy-ec E 3 lpw + 3 ppw management, det on to interface deve E 3 lpw + 3 ppw hypermedia and hy formation landscap	add value f ning) editor o selected a ess. During liting, includ termination elopment. // // // // // // // // // // // // //	to the editoria regarding thi Sem 2 applications of the followin ding editing o Quarter 1 of consume Quarter 2 tion, which in studied, e.g. i Quarter 2

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year				
INY 221	Information Science	10	E 3 lpw + 3 ppw	WebCT	Quarter 4				
System development 221									
Project planning and management, user needs assessment, system specifications, interface development.									
	Information Science	10	E 3 lpw + 1 ppw		Quarter 4				
Publishine					Quuu .				
*Closed -	requires departmental sele	ection.							
Editorial pr	rocess and practice: The p	ersonality	profile of the copy-	editor; the I	evels of copy-				
editing; the	e responsibilities of the co	py-editor to	owards the manus	cript, the a	uthor and the				
	house; the responsibilitie								
texts; proo	f-reading symbols and the	mark-up of			ts.				
INY 223	Information Science	10	E 3 lpw + 1 ppw	WebCT	Quarter 4				
Communi	cation media 223								
	passing module on the us								
	ation processes, technolog			. The use o	of mass media				
	nd the role of mass media								
	Information Science	10	E 3 lpw + 1 ppw	WebCT	Quarter 4				
	formation ethics 224								
	cs: the right to privacy, the			on, moral re	sponsibility of				
	rvice providers, informatio								
-	Information Science	10	E 3 lpw + 3 ppw		Quarter 3				
Multimedi									
	requires departmental sele								
	study of multimedia a								
	and software, the architec								
	uction of such database	es and the	e practical creatio	n of a m	ultimedia and				
	a databases.	40	F 2 January 1, 2 manuary		Overstein 1				
	Information Science	10	E 3 lpw + 3 ppw		Quarter 4				
	andling of information p		.0						
	requires departmental sele		motion producto	anasta of t	he handling of				
	n to copy-editing and mark								
	erials and text (including on accessibility of informat	• •		u page lay	-out) with the				
	Information Science	1011 to the e	E 3 lpw + 1 ppw	WohCT	Quarter 3				
	on representation 227	10		Webci	Quarter 5				
	on, storage and retrieval of	of informatio	n are important d	hallendes f	or the modern				
0	society. The basic struct			0					
	is is the topic of this modul		nation representati						
	Information Science	10	E 2 lpw + 2 ppw		Sem 1				
	mark-up languages (1)	-			Jein I				
	requires departmental sel								
	ew generation mark-up-la		(ML): building mult	imedia pro	ducts with the				
XML family		inguagee ()	(inc), building man						
INY 272	Information Science	10	E 2 lpw + 2 ppw		Sem 2				
	mark-up languages (2)			L					
	requires departmental sele								
	ing of a complex mult		duct with the X	ML family	and related				
technologie	e			ioniny					

code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
INY 300	Information Science	15	E 1 ppw		Year
	a project 300				
	Requires departmental se				
	le exposes students to p				
	scale. The goal of the mo	dule is dev	elop and complete	e a fairly lar	ge multimedia
project.	<i>.</i>			-	
	of the module is on a pro	oject that la	sts the whole year	. The proje	ct is tackled in
<u> </u>	two to three students.	15	F 2 January 1, 2 manuary	MahOT	Oversten 2
INY 311 Multimedi	Information Science	15	E 3 lpw + 3 ppw	VebCI	Quarter 2
	study of multimedia and	hypormos	lia tha analiaatia	n thoroof	aoffwara and
	architecture of hypermed				
,	n of a multimedia and hyp				se ualabases,
	Information Science	15	E 3 lpw + 1 ppw	WebCT	Quarter 2
	on for development 312	15		Weber	Quarter 2
	ind information literacy,	ICT and	development me	dia for the	nrovision of
,	n to developing communiti		• •		•
INY 315	Information Science	15	E 3 lpw + 3 ppw		Quarter 1
	I multimedia 315				
	requires departmental sel	ection.			
	aspects of multimedia ha		d software, versio	n manager	nent. practica
multimedia			,	0	<i>·</i> •
INY 316	Information Science	15	E 3 lpw + 3 ppw		Quarter 2
Human-co	omputer interaction 316				
	requires departmental sel				
,	f human-computer intera				,
•	and information users, e	ethical aspe	ects relating to th	e creation	of multimedia
	n products.				
	Information Science	15	E 3 lpw + 1 ppw	WebCT	Quarter 2
	on economics 318				
Economic	characteristics of informa				
Economic information	n sector to the economy	of a count	ry, methods for m	neasuring th	ne size of the
Economic information	n sector to the economy n sector in a country, inte	of a count raction bet	ry, methods for m ween the informati	neasuring the on sector a	ne size of the and the rest of
Economic information information the economic	n sector to the economy n sector in a country, inte my in a country, the mark	of a count raction bet teting and p	ry, methods for m ween the informati	neasuring the on sector a	ne size of the and the rest of
Economic information information the economic business in	n sector to the economy n sector in a country, inte my in a country, the mark ntelligence, electronic com	of a count raction bet teting and p merce.	ry, methods for m ween the information pricing of information	neasuring the on sector a	ne size of the and the rest of and services
Economic information information the economic business in INY 319	n sector to the economy n sector in a country, inte my in a country, the mark ntelligence, electronic com Information Science	of a count raction bet teting and p	ry, methods for m ween the informati	neasuring the on sector a	ne size of the and the rest of
Economic information information the economic business in INY 319 Publishin	n sector to the economy n sector in a country, inte my in a country, the mark ntelligence, electronic com Information Science g 319	of a count eraction bett teting and p mmerce.	ry, methods for m ween the information pricing of information	neasuring the on sector a	ne size of the and the rest of and services
Economic information information the economic business in INY 319 Publishin *Closed –	n sector to the economy n sector in a country, inte my in a country, the mark ntelligence, electronic com Information Science g 319 requires departmental sel	of a count eraction betweeting and p mmerce.	rry, methods for m ween the information pricing of information E 3 lpw + 1 ppw	neasuring the on sector a sector a products	ne size of the and the rest of and services Quarter 4
Economic information information the econom business in INY 319 Publishin *Closed – An introdu	n sector to the economy n sector in a country, inte my in a country, the mark ntelligence, electronic com Information Science g 319 requires departmental sel uction to publishing mana	of a count eraction betw teting and p merce. 15 ection. agement: T	rry, methods for m ween the information ricing of information E 3 lpw + 1 ppw his module provide	easuring the on sector a con products	ne size of the and the rest o and services Quarter 4 duction to the
Economic information information the econon business in INY 319 Publishin *Closed – An introdu different	n sector to the economy n sector in a country, inte my in a country, the mark ntelligence, electronic com Information Science g 319 requires departmental sel action to publishing mana facets of management	of a count eraction bett teting and p merce. 15 ection. agement: The in the put	rry, methods for m ween the information oricing of information E 3 Ipw + 1 ppw his module provide ublishing environr	neasuring the on sector a con products es an intro nent, inclu	ne size of the and the rest of and services, Quarter 4 duction to the ding editorial
Economic information information the econon business in INY 319 Publishin *Closed – An introdu different organisatio	n sector to the economy n sector in a country, inter my in a country, the mark ntelligence, electronic com Information Science g 319 requires departmental sel iction to publishing mana facets of management on and management; finar	of a count eraction bett teting and p merce. 15 ection. agement: The in the put	ry, methods for m ween the information oricing of information E 3 Ipw + 1 ppw his module provide ublishing environmement and market	neasuring the on sector a con products es an intro nent, inclu	ne size of the and the rest of and services, Quarter 4 duction to the ding editorial
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Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
INY 322	Information Science	15	E 3 lpw + 1 ppw		Quarter 2
Publishing					
	requires departmental sele				
	oning: A theoretical introdu				
	t commissioning; list build	0,	0		
	torial project management pment of marketing and pr		U U	dividual put	olications; and
INY 323	Information Science	15	E 3 lpw + 1 ppw	WohCT	Quarter 4
	n: socio-political contex	-		Webci	Quarter 4
Theories a	about the information so		alisation and loca	alization an	d information
	d information wealth.				-
	Information Science	15	E 3 lpw + 3 ppw	WebCT	Quarter 4
Multimedi					
	COS 140, COS 214 and I				
	study of multimedia in the				
	I XML. An introduction to	SGML, ot	her document forr	nats and e	lectronic style
specificatio					
INY 325	Information Science	15	E 3 lpw + 3 ppw		Quarter 3
	design 325				
	requires departmental sele				
	study of the role, com			an interfac	e, underlying
	n the design and evaluation				1
	Information Science	15	E 3 lpw + 3 ppw		Quarter 4
•	anguages 326				
	requires departmental sele				
	study of HTML and X			1L, other e	electronic and
	formats and electronic styl				
	Information Science	15	E 3 lpw + 1 ppw	WebCT	Quarter 4
	on and knowledge manag				
	a knowledge-based or				owledge and
	onal learning, roles and re				
	ent strategies and policies				management,
	echniques for knowledge r				0
		15	E 1 lpw + 2 ppw	WebCI	Sem 2
	on and knowledge manag		bractice 328		
	requires departmental sele		u della di anche al constante d		
	d experiential training in co				Oursets n A
	Information Science	15	E 3 lpw + 3 ppw		Quarter 4
	information retrieval 32	9			
	INL 211 and INL 212				ation nothing of
	n is growing exponential				
	ues regarding the effectiv				
	s module builds on the print				
	tain aspects of the system	s approacn	to information retr	ievai in moi	e detail.
INY 711	Information Science	20			
Research	methodology methodology and the app v knowledge, is a valued a				

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
the followi	ng objectives in mind: to	instruct the	student in the ba	sic principle	es of research
and to ava	il them the opportunity to	execute res	earch projects in a	profession	al manner.
	are guided from the sele				
research re	eport with practical sugge	stions based	d on a solid theore	tical framew	/ork.
INY 712	Information Science	20			
Informatio	on management				
Research	Report				
Closed mo	dule				
Students a	are expected to write a	research re	eport (5000-7000	words) on	a topic to be
selected in	collaboration with the lea	cturers.			
INY 713	Information Science	20			
Informatio	on and Knowledge Mana	igement (I)			
This modu	ile consists of two main	sections. A	theoretical frame	work of in	formation and
knowledge	e management will be add	dressed in se	ection one. Sectior	n two covers	s the enablers
of information	tion and knowledge man	agement. Th	nese include: lead	ership, corp	oorate culture,
organisatio	onal learning, strategy,	laws and	policies, measu	rement an	d information
technology	1.				
INY 714	Information Science	20			
Organisat	ion, retrieval and seekir	ng of inform	ation		
Information	n retrieval covers the pr	oblems rela	ting to the effecti	ve storage	, access, and
searching	of information required b	y individuals	. This module will	introduce s	tudents to the
theory an	d operative requirement	is of inform	nation organisation	n and retri	eval and the
evaluation	of information retrieval sy	/stems, as w	ell as information	seeking beh	naviour.
INY 715	Information Science	20			
Informatio	on ethics				
This mod	ule focuses on the ma	in moral is	sues pertaining	to informat	ion and ICT,
globalisatio	on, privacy and knowledg	e flow. It cov	vers amongst other	s the follow	ing fields:
· Data min	ing and privacy		-		-
· Compute	r security				
· The use of	of spyware and malware				
· Software					
· Globalisa	tion and the impact on sc	ociety			
· The form	ulation of ethical codes of	conduct			
INY 716	Information Science	20			
Informatio	on and Knowledge Mana	agement (II)	1		1
	ule offers the student			conversant	with various
	e management programr				
•	of knowledge manage		•		
	ent of an Intranet will be				
•	ent conclude this module.		-,		
INY 717	Information Science	20			
	on retrieval		1	1	1
	on is continuing to grow e	xponentially	diversifving into r	nanv forms	and media In
	lex labyrinth there is a c				
	ce to user demands" (Ing				
	dule students will study in			ems nersne	ective but with
	user in mind Best-mate				

the human user in mind. Best-match and Boolean systems will be studied in some detail, focussing on the different aspects of human and machine relevance. Information seeking

behaviour studies that can support the enhancement of IR performance will also covered. INY 718 Information Science 20 Information economy This module critically examines aspects of information economics within national and glic ontexts. It aims to promote an understanding of the commodity and public good qual of information, and their consequences for the production and distribution of informa goods and services. The dynamics of information industries are a central element of module. INY 719 Information Science 20 Read and reading practices This module focuses on issues such as the renewed awareness of the importance reading. It also includes a review of reading levels and reading communities of read reading promotion; libraries and reading; bibliotherapy and reading in an electre environment are additional topics that will be investigated. INY 720 Information Science 20 Digital libraries This module provides an introduction to the nature, characteristics and functioning of di libraries. The development of the field is studied and existing practical examples researched and evaluated. INY 721 Information Science 20 INT 722 Information Science 20 INT 723 Information Science 20 INT 724 Information Science 20 INT 725 Information Science 20 INT 727 Information Science 20 INT 728 Information Science 20 INT 729 Information Science 20 INT 720 Information Science 20 INT 721 Information Science 20 INT 722 Information Science 20 INT 724 Information Science 20 INT 725 Information Science 20 INT 726 INT 727	Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
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Knowledge society This module evaluates approaches to and concepts of the information/knowledge societ questions the origins and political motives for the promotion of an information/knowle society, and examines a number of relevant themes in the literature. INY 723 Information Science 20 Information philosophy In this module we study the following core philosophical acts and the practical relevant thereof to information science: the act of thought (from logic to invention); the act understanding the knowledge/information complexity; the act of a continuous search and connection of ideas; the act of reflection on the assumptions prevalent in the diverse.	examined.					
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In this module we study the following core philosophical acts and the practical relevant thereof to information science: the act of thought (from logic to invention); the act understanding the knowledge/information complexity; the act of a continuous search and connection of ideas; the act of reflection on the assumptions prevalent in the dive	-		20			
thereof to information science: the act of thought (from logic to invention); the act understanding the knowledge/information complexity; the act of a continuous search and connection of ideas; the act of reflection on the assumptions prevalent in the dive						
understanding the knowledge/information complexity; the act of a continuous search and connection of ideas; the act of reflection on the assumptions prevalent in the dive						
and connection of ideas; the act of reflection on the assumptions prevalent in the dive				0 (0		<i>, , , , , , , , , ,</i>
sub-disciplines of information science and in the field of technical developments; and						ients; and the
act of sense-making and invention with a view to the creation of a future. INY 724 Information Science 20				o the creation of a	tuture.	1
			20			
	INY 724	-	l annliantian	of multimodia	h hunorma d	a in the disite
This module focuses on the use and application of multimedia and hypermedia in the dis	Multimedi	la faquada an tha usa		the minimpenia and	1 UVDermed	
	Multimedi This modu		application		nypenneu	a in the aight
Topics include: aspects of human-computer interaction and interface design, principles	Multimedi This modu environme	nt.				0
practice of usability engineering and usability testing, the role of metadata, adap hypermedia, portals, digital libraries, mobile computing and virtual reality. The mod	Multimedi This modu environme Topics inc	nt. lude: aspects of human-co	omputer inte	eraction and interfa	ace design,	principles and
	Multimedi This modu environme Topics inc practice o	nt. lude: aspects of human-co f usability engineering a	omputer inte and usabilit	eraction and interfa y testing, the role	ace design, e of metac	principles and lata, adaptive

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester			
INY 725	Information Science	20			Year			
Informetri		20						
		o oppliaatie	on of information	-	rinciples and			
	s is concerned with the							
	in science research a	•	, ,					
	qualitative aspects of information processes. It covers citation indexing, informetric approximations, citation networks and citation analysis of scientific journals.							
	Information Science	20		journais.				
-		20						
	ve intelligence (I)	o intolligon	oo programma ia	on intogral	nort of overv			
	ig an effective competitiv							
	that wants to survive in							
	e nature of the busines							
	ompetitive Forces Model,							
	espionage, the intelligence	•			niques for the			
	ent and implementation of		ve intelligence proc	gramme.				
INY 727	Information Science	20						
	ve intelligence (II)							
	e intelligence provides th							
	e environment, aimed at s							
	e of analysis in the intell							
	ind corporate governance,			ity in an org	anisation and			
	ns facing CI professionals		frica.					
INY 728	Information Science	20						
	making theory							
	uch as the following will b							
	ystems, processing of o							
	aking theory with regard t		on and knowledge i	managemei	nt.			
INY 729	Information Science	20						
	ent of information centre			<i>.</i> .				
	n centres are now regarde							
	ore important for them to b							
•	This module focuses or		•					
	siness environment and							
	of the information centr		•	•				
	, re-engineering, strategi		esources manage	ment and	the impact of			
	cal innovation in the IT en			1				
INY 730	Information Science	20						
	on communication			ماريام مملاحي	ha ina alamatha ara			
	by the participatory approa							
	or the effective communication							
•	dience profile to deterr							
	tion of information. Comm							
	tral focus of this module.							
	media will be addressed				and effective			
Ŭ	for the communication of		will also be addres	sea.				
	Information Science	20	fan daraf f					
	on and communication te							
	dule modern information a							
a developi	ng context will be defined	. The vario	us theories as wel	i the literac	ies needed in			

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year			
such a cor	ntext, namely basic literac	y, informati	on literacy and tec	hnological I				
studied. The focus will fall on the current use and/or misuse of ICT in the developing world								
with specif	fic references to the Sout	h African s	ituation, including	the telecer	tre approach.			
	le will include a study of t							
future pos	sibilities with regard to IC	T for devel	opment including of	open source	e and satellite			
technology								
INY 732	Information Science	20						
	e dynamics							
	e on knowledge dynamics							
	d of knowledge based on							
	ons, communities and the							
•	izations are using comple							
	f structure, relationships							
	e students will be introduc				· · · · · · · · · · · · · · · · · · ·			
,	complex and chaotic im	pact on the	e structures, relati	onships an	d activities of			
	ganizations.		[
INY 733	Information Science	20						
	s Knowledge and Indige							
	le focuses on indigenous	knowledge	e and indigenous	knowledge	systems. The			
0	spects will be addressed:	C 117						
	, scope and epistemology							
	g, capturing, digitization, a	ccess and o	dissemination of IK	;				
Database								
	ues regarding IK with the e		n intellectual prope	rty right and				
JCP 202	Faculty of Engineer-	8			Year			
	ing, Built Environment and Information							
Communi	Technology ty-based Project							
	ct-orientated module is a	form of an	nlind loarning whi	ch is direct	ad at specific			
	needs and is integrated							
	ulty of Engineering, Built E		•					
,	objectives with the modu							
	pject aimed at achieving		()					
	but not exclusively, by er		•		3 *			
	student's own social bac							
	social and cultural values.							
	es, for the purpose of bei							
	multidisciplinary and life							
leadership	. ,	,		,				
	nt in the module will inclu	de all or m	ost of the following	componer	nts: evaluation			
	val of the project proposa			, ,				
	ssment in the event of tea							
	s aimed at, and final asse							
a written re			-					
	Information Science	30						
	Development Communi		L	1	•			
	ule will focus on huma		ment and the p	principle of	participatory			
	ation. It will examine comr							
,								

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
to commun	nication and change. The	student sho	uld be able to work	c effectively	with others in
	g participative developm				
	aluate existing literature				
	ation forms an integral par				
	Information Science	30			
	ent of Development Com		n 881		
	le will be offered from a			l will oxomi	no the role of
	ent within the strategic ma				
	tion of development proje				
				clives of the	e organisation
	manage communication	1	elopment project.	1	
	Information Science	30			
	ce of Development Com				
	of this module is the pra-				
	to research the target				
campaigns	in communities and	the differer	nt channels that	can be i	used for the
disseminat	ion of development me	ssages. It	also contains a	componen	t in which a
developme	ent message must be des	igned by ta	king into account	target grou	p, appropriate
channel an	d distribution.		-		
OKT 883	Information Science	30			
Informatio	on Centres and Developr	nent Comm	nunication 883	1	1
	le will focus on the role			seminating	development
	n. Centres that will be				
	libraries, telecentres and				
,	Information Science	mani-purpo		103.	
	ent Communication: Dis	contation 9	00		
				- project	
	ensive report (100-150 pa		approved researci	i projeci.	
	Information Science	120		005	
	ent Communication (co			895	
	0-100 pages) on an appro	ved researd	ch project.		
	Information Science				
	on: Development Commur	ication 900		1	
OKT 990	Information Science				
Thesis: De	velopment Communicatio	n 990			
PUB 712	Information Science	20			
Advanced	electronic publishing				
	this module is to teach ar	nd enable th	ne student to build	and mark u	p a document
	eXtensible Mark-up Lar				
````	for electronic publication.	0 0 /			
	Information Science	20			
	design and production			1	
	ced module that explore	s the creat	tion and proparat	ion of inter	nniseh hetern
	or paper and screen-bas				
,	atter, composition and pr		, 0		0 0
	. Critical evaluation of				
	hal skills needed to transm	1	peas to other peop	e are empl	hasized.
	Information Science	20			<u> </u>
•	d production				
A basis mo	odule that introduces the k	ev disciplin	es, terminologies a	and profess	ional contexts

Module	Department	Credits	Full-time	Flexi-	Quarter
code				learning	Semester
					Year
necessary	for the planning a	and manageme	nt of the visual	design, pr	oduction and
	cal processes that a				
	final product. Funda				
	pplication and integra	ation of typogra	phy, illustration, p	notography,	visual design
	ology are examined.			1	1
	Information Science		-		
	g management: Man	•			
	ule focuses on the				
	include the following			nent skills; i	inancial skills;
	ct development; costi		les.		1
	Information Science	-			
	g management: Org				
	ule focuses on the				
	include the following			roject mana	gement; sales
	ting; communication		eadersnip.		1
-	Information Science				
	shing environment:	Developments	s and trends in	the South	African book
industry					
	le is research-based.				
	n and supply chain of				
	rate research that ca	an contribute to	information on tr	e snape ar	id size of this
cultural inc	,	e 20			
	Information Science shing environment:		monto and trand	in hook n	ubliching
	le is research-based.				
	oublishing as a cultur				
	a selection of releva				
yearry by			loco impuoling on		iopinicinto una
trends		in giosai piaot			
trends.		<u> </u>			
PUB 726	Information Science	<u> </u>			
PUB 726 Corporate	Information Science Publishing	e 20		nvironment	Themes that
PUB 726 Corporate This modu	Information Science Publishing lle offers an introduct	e 20	orate publishing e	nvironment	Themes that
PUB 726 Corporate This modu are addres	Information Science Publishing le offers an introduct sed include the follow	e 20 tion to the corp			
PUB 726 Corporate This modu are addres • Co	Information Science Publishing le offers an introduct sed include the follow intextualising the corp	e 20 tion to the corp ving: porate publishin	g environment (m	arketing an	d advertising;
PUB 726 Corporate This modu are addres • Co cor	Information Science Publishing le offers an introduct sed include the follow intextualising the corp inmunication; identity	e 20 tion to the corp ving: porate publishin y; branding;	g environment (m	arketing an	
PUB 726 Corporate This modu are addres • Co cor cor	Information Science Publishing le offers an introduct sed include the follow intextualising the corp inmunication; identity itemporary key issues	e 20 tion to the corp ving: porate publishin y; branding;	g environment (m forms of public	arketing an ations; pro	d advertising; ocess; team;
PUB 726 Corporate This modu are addres • Co cor cor • Wr	Information Science Publishing le offers an introduct sed include the follow intextualising the corp inmunication; identity intemporary key issues ting for a corporate of	e 20 tion to the corp ving: porate publishin y; branding; s) environment (pe	g environment (m forms of public	arketing an ations; pro	d advertising; ocess; team;
PUB 726 Corporate This modu are addres • Co cor cor • Wri	Information Science Publishing le offers an introduct seed include the follow intextualising the corp inmunication; identity itemporary key issues ting for a corporate e erviewing; style and ed	e 20 tion to the corp ving: porate publishin y; branding; s) environment (pe diting; ethics)	g environment (m forms of public ersuasive writing; r	arketing an ations; pro reporting; fe	d advertising; ocess; team;
PUB 726 Corporate This modu are addres • Co cor • Cor • Wr inte • Lia	Information Science Publishing le offers an introduct seed include the follow intextualising the corp inmunication; identity itemporary key issues ting for a corporate e erviewing; style and ed ising with the media (i	e 20 tion to the corp ving: porate publishin y; branding; s) environment (pe diting; ethics) roles; strategy; t	g environment (m forms of public ersuasive writing; n ypes of media rele	arketing an ations; pro reporting; fe eases)	d advertising; ocess; team;
PUB 726 Corporate This modu are addres • Co cor cor • Wr inte • Lia • Wc	Information Science Publishing le offers an introduct sed include the follow intextualising the corp mmunication; identit itemporary key issues ting for a corporate of reviewing; style and en ising with the media (in rkflow processes in a	e 20 tion to the corp ving: porate publishin y; branding; s) environment (pe diting; ethics) roles; strategy; t corporate publi	g environment (m forms of public ersuasive writing; r ypes of media rele shing environment	arketing an ations; pro reporting; fe eases)	d advertising; ocess; team;
PUB 726 Corporate This modu are addres • Co cor cor • Wrr inte • Lia • Wc • Pla	Information Science Publishing le offers an introduct seed include the follow intextualising the corp inmunication; identity itemporary key issues ting for a corporate e erviewing; style and ed ising with the media (i	e 20 tion to the corp ving: porate publishin y; branding; s) environment (pe diting; ethics) roles; strategy; t corporate publi a corporate publi	g environment (m forms of public ersuasive writing; r ypes of media rele shing environment	arketing an ations; pro reporting; fe eases)	d advertising; ocess; team;
PUB 726 Corporate This modu are addres • Co cor cor • Wrr inte • Lia • Wc • Pla	Information Science Publishing le offers an introduct sed include the follow intextualising the corp intextualising the corp intemporary key issues ting for a corporate enviewing; style and enviewing; style and environ ising with the media ( interflow processes in a nning and designing a Information Science	e 20 tion to the corp ving: porate publishin y; branding; s) environment (pe diting; ethics) roles; strategy; t corporate publi a corporate publi	g environment (m forms of public ersuasive writing; r ypes of media rele shing environment	arketing an ations; pro reporting; fe eases)	d advertising; ocess; team;
PUB 726 Corporate This modu are addres • Co cor • Wrr inte • Lia • Wc • Pla PUB 727 E-publish	Information Science Publishing le offers an introduct sed include the follow intextualising the corp inmunication; identity intemporary key issues tring for a corporate erviewing; style and ec- ising with the media ( introflow processes in a nning and designing a Information Science ing	e 20 tion to the corp ving: porate publishin y; branding; s) environment (pe diting; ethics) roles; strategy; t corporate public a corporate publi	g environment (m forms of public ersuasive writing; i ypes of media rele shing environment lication programme	arketing an ations; pro reporting; fe pases)	d advertising; ocess; team; ature articles;
PUB 726 Corporate This modu are addres • Co cor cor • Wr inte • Lia • Wc • Pla PUB 727 E-publish This modu	Information Science Publishing le offers an introduct sed include the follow intextualising the corp intextualising the corp intextualising the corp intextualising the corp is devices in a corporate devices reviewing; style and ex- ising with the media ( information Science ing le focuses on chara	e 20 tion to the corp ving: porate publishin y; branding; b) environment (pediting; ethics) roles; strategy; f corporate publication a corporate publication e 20 cteristics, advantages cteristics, advantages cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics cteristics c	g environment (m forms of public ersuasive writing; i ypes of media rele shing environment ication programme ntages and pitfalls	arketing an ations; pro reporting; fe eases)	d advertising; pocess; team; ature articles; ations and e-
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PUB 726 Corporate This modu are address • Co cor cor • Wr • Lia • Wc • Pla PUB 727 E-publish This modu publishing are introdu	Information Science Publishing le offers an introduct seed include the follow intextualising the corp intemporary key issues iting for a corporate of erviewing; style and ed ising with the media (in rkflow processes in a nning and designing a Information Science ing ile focuses on chara – both on the WWW uced to specific topic	e 20 tion to the corp ving: porate publishin y; branding; s) environment (pe diting; ethics) roles; strategy; t corporate publi a corporate publi a corporate publi e 20 cteristics, advar /, via the intern cs such as the	g environment (m forms of public ersuasive writing; i ypes of media rele shing environment lication programme htages and pitfalls et, or on other de role and function	arketing an ations; pro eporting; fe eases) e.	d advertising; pocess; team; ature articles; ature articles; ations and e- rms. Students sher in the e-
PUB 726 Corporate This modu are address • Co cor cor • Wr inte • Lia • Wc • Pla PUB 727 E-publish This modu publishing are introdu environme	Information Science Publishing alle offers an introduce sed include the follow intextualising the corporate intemporary key issues ting for a corporate of erviewing; style and ed ising with the media (in rkflow processes in a nning and designing a Information Science ing alle focuses on charan – both on the WWW	e 20 tion to the corp ving: porate publishin y; branding; s) environment (pe diting; ethics) roles; strategy; t corporate publi a corporate publi a corporate publi e 20 cteristics, advar /, via the intern cs such as the e-dictionaries;	g environment (m forms of public ersuasive writing; i ypes of media rele shing environment lication programme htages and pitfalls et, or on other de role and function publishing and n	arketing an ations; pro eporting; fe eases) e. 	d advertising; pocess; team; ature articles; ature articles; ations and e- rms. Students sher in the e- journals; new

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year				
	Information Science	120							
Publishing	Publishing (coursework): Coursework component 801								
PUB 890	Information Science								
Dissertati	on: Publishing 890								
	nensive report on an aspec	t of Publish	ling.						
PUB 895	Information Science								
	rtation: Publishing 895								
PUB 900	Information Science								
Examinati	on: Publishing 900								
Justificatio	n of thesis/examination on	thesis.							
PUB 990	Information Science								
	Thesis: Publishing 990								
A compret	nensive and advanced rep	ort on an a	approved project.	Expert, higł	nly specialised				
and interdi	sciplinary research within	Publishing.							

## IT.31.3 THE FOLLOWING MODULES FALL UNDER THE FACULTY OF ECONOMIC AND MANAGEMENT SCIENCES

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year				
BEM 110	Marketing Management	10	A&E 3 lpw		Sem 1				
Marketing Management 110									
Fundamentals of marketing management and marketing instruments: General overview of									
	marketing management, including the marketing concept, the process of marketing								
	ent, evolution of marketin								
	market segmentation, positioning and marketing information. Perspective on various								
	instruments in the marke				s, distribution				
	marketing communication			ns.					
BEM 121	Marketing	10	A&E 3 lpw		Sem 2				
	Management								
	r behaviour and Services	s marketing	g 121						
Part 1									
	behaviour	toro of oon	umar babayiaur '	The eeneur	maria decision				
	nd external influencing fac and application fields o								
responsibi		consume		nsumensing					
Part 2	ity.								
	n to the marketing of servi	ces							
	basic marketing skills will		e capabilities of ma	arketers of	services. This				
	ovides an overview of the								
marketing			J						
The focus	will fall on the practical in	plications	of the characteristi	ics of intang	gible products				
and the pr	icing, promotion, placeme	nt, physical	evidence, process	s and peop	le dimensions				
of services	marketing.								

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
BEM 211	Marketing	16	A&E 3 lpw		Sem 1
	Management				
Product a	nd distribution decisions	s 211			
Part 1					
Product de	ecisions				
	statement and concept				
strategies	of the organisation, organ	nisational a	and product strate	egy, impleme	entation of the
product sti Part 2	ategy, product and marke	t developm	ent strategy and t	he product li	fe cycle.
Distributio	n decisions				
The devel	opment and management	of distribu	tion channels - st	trategic aims	, conventiona
marketing	systems, the main role	players, th	e integration of	distribution	with the othe
	instruments and relationsh				
on channe	I design and management	t; the mana	agement of horizo	ntal and ver	tical marketing
systems a	nd the forming of strategic	alliances.			
BEM 221	Marketing	16	A&E 3 lpw		Sem 2
	Management				
	I marketing communicat	ion and pr	icing decisions 2	221	
Part 1					
	communication decisions				
	marketing communicatio				
	es; management of ad				
	sponsorship, interactive	media a	nd internet mark	teting. Evalu	uation of IMO
effectivene	ess.				
Part 2					
Pricing de			<b></b>	· · · ·	
	of cost, demand and comp				
of market	-based pricing; value ar	id price s	ensitivity; compe	titive influer	ices on price
	ion; psychological aspects			ing decisions	
BEM 311	Marketing	20	A&E 3 lpw		Sem 1
	Management				
	nagement and Marketing	j research	311		
Part 1					
Brand mar	0	h na a d			
	e of brand awareness ps. The development o				
	and co-branding. Exploi				
	e architecture and brand r				manayemen
	I name communication p			ana brand	nomo idontiti
	le loyalty and brand name	,		,	,
	5 5	equity. III		sung sualegi	
Part 2	d brand name equity.				
Marketing	research				
0		marketing	docision making	the process	of markatin
	of marketing research in research designs, ra		ts, consumer		uestionnaires
,	tation, observation, data		,	<b>,</b> ,	
	to marketing information,				
approach				nus (compu	ICIS, IIICIIIEI
Integrated	application of marketing re	acaarah ari	ncinles are asses	eed .	· · ·

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year		
BEM 321	Marketing Management	20	A&E 3 Ipw		Sem 2		
Strategic	issues in marketing and	Strategic I	Marketing 321				
Part 1	_	-	-				
	ssues in marketing						
	marketing; relationship						
	ion; knowledge manage						
	s, seminars, and visits	to/by orgar	nisations for mear	ningful integ	gration of the		
theory and	practice.						
Part 2							
Strategic r	0						
	analysis; customer mar						
	ation; marketing planning						
• •	ussions, seminars, and vi	SILS LO/DY OF	ganisations for me	aningiui inte	egration of the		
theory and	Economics	10	A&E 3 lpw	1	Sem 1		
Economic		10	AGE 3 IPW		Selli I		
	alise the interrelationships	of the diffe	ront soctors in Sou	th African	oconomy Tho		
	g of international trade, g						
	economics, economic de						
	to the South African conte			i economic.	s with specific		
			cisions and event	s on the	South African		
The impact of national and international decisions and events on the South African							
economy.							
economy.	Economics	15	A&E 3 Ipw		Sem 1		
economy. EKN 113 Economic	Economics s 113	15	A&E 3 lpw				
economy. EKN 113 Economic Introductic	Economics	15 iples of mici	A&E 3 Ipw		Sem 1		
economy. EKN 113 Economic Introductic The scope	Economics s 113 on to economics and princ	<b>15</b> <i>iples of micr</i> theory of de	A&E 3 Ipw roeconomics. emand and supply:	; price, inco	Sem 1		
economy. EKN 113 Economic Introductic The scope elasticity c	Economics s 113 on to economics and princ of economics; the basic	<b>15</b> <i>iples of mici</i> theory of de ity, the utilit	A&E 3 Ipw roeconomics. emand and supply y function and cas	; price, incc	Sem 1		
economy. EKN 113 Economic Introductic The scope elasticity c utility func	Economics is 113 in to economics and princ of economics; the basic of demand; consumer util	15 iples of micr theory of de ity, the utilit in the short	A&E 3 Ipw roeconomics. emand and supply y function and cas and long run; mar	; price, incc se studies in ket structur	Sem 1 ome and cross n terms of the es namely the		
EKN 113 Economic Introductio The scope elasticity o utility func perfect ma	Economics is 113 in to economics and princ of economics; the basic of demand; consumer utili- tion; the theory of the firm	15 iples of micro theory of do ity, the utilit in the short y and mono	A&E 3 Ipw roeconomics. emand and supply y function and cas and long run; mar polistic competition	; price, incc se studies in ket structur	Sem 1 ome and cross n terms of the es namely the		
economy. EKN 113 Economic Introductic The scope elasticity c utility func perfect ma microecon	Economics is 113 in to economics and princ of economics; the basic of demand; consumer utili- tion; the theory of the firm arket, monopoly, oligopoly	15 iples of micro theory of do ity, the utilit in the short y and mono	A&E 3 Ipw roeconomics. emand and supply y function and cas and long run; mar polistic competition	; price, incc se studies in ket structur	Sem 1 ome and cross n terms of the es namely the		
economy. EKN 113 Economic Introductic The scope elasticity outility func perfect ma microecom EKN 120 Economic	Economics s 113 in to economics and princ. of economics; the basic of demand; consumer utili- tion; the theory of the firm arket, monopoly, oligopoly, omics vs macroeconomic Economics s 120	15 iples of mic: theory of de ity, the utilit in the short y and mono s and econo 10	A&E 3 Ipw roeconomics. emand and supply y function and cas and long run; mar polistic competition pmic statistics. A&E 3 Ipw	; price, incc e studies ii ket structur n; public se	Sem 1 ome and cross in terms of the es namely the actor finances; Sem 2		
economy. EKN 113 Economic Introductic The scope elasticity outility func perfect ma microecom EKN 120 Economic	Economics s 113 in to economics and princ of economics; the basic of demand; consumer utili- tion; the theory of the firm arket, monopoly, oligopoly omics vs macroeconomic Economics is 120 omic environment and	15 iples of micr theory of de ity, the utilit in the short y and mono s and econo 10 problem: w	A&E 3 Ipw roeconomics. emand and supply y function and cas and long run; mar polistic competition omic statistics. A&E 3 Ipw rorking and cours	; price, incc ie studies in ket structur n; public se e of the s	Sem 1 ome and cross in terms of the es namely the ector finances; Sem 2 South African		
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economy. EKN 113 Economic Introductic The scope elasticity of utility func perfect ma microecom EKN 120 Economic The econ economy; Macroecom	Economics s 113 in to economics and princ of economics; the basic of demand; consumer utili- tion; the theory of the firm arket, monopoly, oligopoly omics vs macroeconomic Economics is 120 omic environment and functioning and inter- nomic theory and analysis	15 iples of micr theory of d ity, the utilit in the short y and mono s and econo 10 problem: w relationship s. Analyse a	A&E 3 Ipw roeconomics. emand and supply y function and cas and long run; mar polistic competition omic statistics. A&E 3 Ipw rorking and cours s of the differ- and interpret econo	; price, incc ie studies in ket structur n; public se ent econc mic perforr	Sem 1 ome and cross in terms of the es namely the ector finances; Sem 2 South African omic sectors. nance criteria:		
economy. EKN 113 Economic Introductic The scope elasticity of utility func perfect ma microecom EKN 120 Economic The econ economy; Macroecon economic	Economics s 113 in to economics and princ. of economics; the basic of demand; consumer utili- tion; the theory of the firm arket, monopoly, oligopoly omics vs macroeconomic Economics s 120 omic environment and functioning and inter- nomic theory and analysis growth, inflation, job crea	15 iples of microscopy of determined theory of determined to the short of the short	A&E 3 Ipw roeconomics. emand and supply y function and cas and long run; mar polistic competition omic statistics. A&E 3 Ipw rorking and cours s of the differ- and interpret econo- ce of payments and	; price, incc e studies in ket structur n; public se ent econc mic perforr d exchange	Sem 1 ome and cross in terms of the es namely the ector finances; Sem 2 South African omic sectors. nance criteria: e rate stability,		
economy. EKN 113 Economic Introductic The scope elasticity of utility func perfect ma microecon EKN 120 Economic The econ economy; Macroeco economic income dis	Economics s 113 in to economics and princ of economics; the basic of demand; consumer utili- tion; the theory of the firm arket, monopoly, oligopoly- omics vs macroeconomic Economics s 120 omic environment and functioning and inter- nomic theory and analysis growth, inflation, job crea- stribution. Calculate and ir	15 iples of micro theory of de ity, the utilit in the short y and mono s and econo 10 problem: w relationship s. Analyse a tion, balance hterpret core	A&E 3 Ipw roeconomics. emand and supply y function and cas and long run; mar polistic competition omic statistics. A&E 3 Ipw rorking and cours s of the differ and interpret econo ce of payments and e economic indicate	; price, incc e studies in ket structur n; public se ent econc mic perforr d exchange ors. Basic n	Sem 1 ome and cross in terms of the es namely the ector finances; Sem 2 South African omic sectors. nance criteria: e rate stability, nicroeconomic		
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economy. EKN 113 Economic Introductic The scope elasticity of utility func perfect ma microecon EKN 120 Economic The economy; Macroecol economic income dis principles: analysis: 1	Economics s 113 in to economics and prince of economics; the basic of demand; consumer utili- tion; the theory of the firm arket, monopoly, oligopoly omics vs macroeconomic Economics s 120 omic environment and functioning and inter- nomic theory and analysis growth, inflation, job crea- stribution. Calculate and ir demand analysis (consu- market equilibrium; price	15 iples of mich theory of de ity, the utilit in the short y and mono s and econo 10 problem: w relationship s. Analyse a tion, balance mer theory) determinati	A&E 3 Ipw roeconomics. emand and supply: y function and cas and long run; mar polistic competition omic statistics. A&E 3 Ipw rorking and cours s of the differ and interpret econo ce of payments and e economic indicato ; supply analysis ( on; market forms;	; price, inco e studies in ket structur n; public se ent econo mic perforr d exchange ors. Basic n producer th	Sem 1 ome and cross in terms of the es namely the ector finances; Sem 2 South African omic sectors. nance criteria: e rate stability, nicroeconomic neory). Market		
economy. EKN 113 Economic Introductic The scope elasticity of utility func perfect ma microecon EKN 120 Economic The econ economy; Macroecon economic income dis principles: analysis: 1 and interp	Economics s 113 In to economics and prince of economics; the basic of demand; consumer utili- tion; the theory of the firm arket, monopoly, oligopoly omics vs macroeconomic Economics s 120 omic environment and functioning and inter- nomic theory and analysis growth, inflation, job crea- stribution. Calculate and ir demand analysis (consu- market equilibrium; price ret price, income and cross	15 iples of microtheory of determinations of the utility, the utility in the shorth in the shorth of and monor s and econor s and econor s and econor 10 problem: we relationship s. Analyse a stition, balance theory determination is elasticities in the statement theory determination is elasticities and the statement theory of the statement of t	A&E 3 Ipw roeconomics. emand and supply y function and cass and long run; mar polistic competition omic statistics. A&E 3 Ipw rorking and cours s of the differ ind interpret econo ce of payments and e economic indicate ; supply analysis ( on; market forms; s.	; price, inco e studies in ket structur n; public se ent econo mic perforr d exchange ors. Basic n producer th	Sem 1 ome and cross in terms of the es namely the ector finances; Sem 2 South African mic sectors. nance criteria: e rate stability, nicroeconomic neory). Market lure; calculate		
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economy. EKN 113 Economic Introductic The scope elasticity of utility funct perfect ma microecon EKN 120 Economic The econ economy; Macroecon economic income dis principles: and interp EKN 123 Economic National ir The mech money ma	Economics s 113 in to economics and prince of economics; the basic of demand; consumer utili- tion; the theory of the firm arket, monopoly, oligopoly omics vs macroeconomic Economics is 120 omic environment and functioning and inter- nomic theory and analysis growth, inflation, job crea- stribution. Calculate and ir demand analysis (consu- market equilibrium; price ret price, income and cross Economics is 123 is come and principles of m- anics of national income arket, demand for money	15 iples of microscopy of determined theory of determined to the shorth of an and mono of a standard mono of the shorthold the	A&E 3 Ipw roeconomics. emand and supply y function and cas and long run; mar polistic competition omic statistics. A&E 3 Ipw rorking and cours s of the differ ind interpret econo ce of payments and e economic indicate ; supply analysis ( on; market forms; s. A&E 3 Ipw hics the Keynesian ma supply, money an	; price, incc e studies in ket structur n; public se ent econc mic perforr d exchange prs. Basic n producer th market fai	Sem 1 ome and cross in terms of the es namely the ector finances; Sem 2 South African omic sectors. nance criteria: e rate stability, nicroeconomic neory). Market lure; calculate Sem 2 nic model, the eation and the		
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codelearningSemes Yearproblems of inflation and unemployment. Macroeconomic issues namely: macroeco policy, international trade, the balance of payments and economic growth.EKN 214EconomicsEKN 214Economics16A&E 3 lpwSem 1Economics 214 MacroeconomicsMacroeconomicsSem 1From Wall and Bay Street to Diagonal Street, a thorough understanding of the mecha and theories explaining the workings of the economy is essential. Macroeconomic ins provided on the real market, the money market, two market equilibrium, monet growth theory, cyclical analysis, inflation, Keynesian general equilibrium analysis and and monetary policy issues. Mathematics for economics and econometric analy macroeconomic sues.EKN 215Economics16A&E 3 lpwSem 1Economics 215 Monetary economicsSem 1Sem 1Sem 1International trade, the financial system in the economy economic description of the role and elements of the financial instruments in the money market, fin instruments in the capital market, fixed interest securities market, variable in securities market, stock market (shares), capital market instruments, foreign exc market and instruments, futures market and contracts, options market and contracts meaning and functions of money, understanding interest rates, portfolio choice babainer of interest rates, read torm extend on tracts, options market and contracts meaning and functions of money, understanding interest rates, portfolio choice	anisms sight is tarism, d fiscal ysis of ription, res of nancial nterest
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behaviour of interact rates, rick and term structure of interact rates, an economic analy	e, the
behaviour of interest rates, risk and term structure of interest rates, an economic analy	ysis of
the financial structure, multiple deposit creation and the money supply pro	ocess,
determinants of the money supply, the demand for money (different schools of the	
transmission mechanisms of monetary policy, money and inflation, theory of ra	
expectations and efficient capital markets, rational expectations and implications for	
Global finance and the world economic environment, International Monetary Sy	
Eurocurrency market and offshore banking, overview of the global financial market	
current monetary policy framework and policy process in South Africa possible	
developments (including inflationary targets and modern central banking trends),	
regulation: the key role banks must play in the financial system and the basic reas	son for
bank regulation and electronic banking	
EKN 224 Economics 16 A&E 3 lpw Sem 2	
Economics 224	
Microeconomics	
Micro-economic insight is provided into: Consumer and producer theory, general	
economic equilibrium, Pareto-optimality and optimality of the price mechanism, w	
economics, market forms and the production structure of South Africa. Statistica	al and
econometric analysis of microeconomic issues.	
EKN 225 Economics 16 A&E 3 lpw Sem 2	
Economics 225	
Economic thought and development	- 4
History of economic thought and capita selecta of development issues. Economic sys	
types, origin and historical development, history of economic thought, the history of w	estern
and other economic systems.	
EKN 310 Economics 20 A&E 3 lpw Sem 1	
Economics 310	
Public finance	
Role of government in the economy. Welfare economics and theory of optimality. W	ays of

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year	
Governme	market failures. Governr nt revenue. Models on tax from an optimality and	ation, effect	ts of taxation on th	ne economy	programmes. Assessment	
public final						
EKN 314 Economic	Economics	20	A&E 3 lpw		Sem 1	
Internation Internation theory of i economic internation	al trade/finance al economic insight is pro nternational trade, interna and customs unions and al monetary relations, for payments, as well as ope	ational capi other form eign exchar	tal movements, in s or regional co-o nge markets, excha	ternational peration ar ange rate is	trade politics, d integration,	
	Economics	20	A&E 3 lpw		Sem 2	
Economic				I		
accounts ( of payme unemployr fiscal and time series	on, collection and interpre i.e. income and productio ints and input-output nent, wages, productivity social indicators; interna s - regression analysis; k t of the South African ecc	n accounts, tables); er and incor ational com ong-term fu	the national finan conomic growth; ne distribution; bu parisons; relations ture studies and s	cial accoun inflation; usiness cyc ships betwe scenario an	t, the balance employment, eles; financial, een economic alysis; overall	
	Economics	20	A&E 3 lpw		Sem 2	
Economic		20	Ade 5 ipw		Selli Z	
Political e policy, inf developme Several ca	development: capita select conomy: Several macroe ernational trade policy, ent is studied from the p apita selecta is covered v an and regional context.	conomic po labour po perspective	olicy and compe of South Africa	tition polic as a deve	y. Economic loping nation.	
		32	3 lpw		Year	
<b>Financial Management 200</b> The purpose and functioning of management accounting, cost classification. The determination of product costs including raw material costs, labour costs, overheads and the allocation thereof according to traditional and activity-based costing methods, inventory management, the accumulation of costs according to job and process costing systems, the treatment of joint and by-products and the determination of costs according to a direct and absorption costing approach. Decision-making with reference to cost-volume-profit ratios, relevant costs, risk and uncertainty, decision trees, linear programming and capital investment budgets. Planning and control through the application of quantitative techniques, budgets and standard costing.						
	ite: [FRK 100 or 101] Financial Management	16	3 lpw		Semester 1	
Financial Frameworl analysis of relationshi term financi	Management 210 (< and purpose of financial financial statements for ps; business valuation; s cing decisions. ite: [FRK 111 and 121]	ial manage decision ma	ment; understand aking; time value o	of money; ri	al statements; isk and return	

code	Department	Credits	Full-time	Flexi- learning	Quarter Semester						
				-	Year						
FBS 220	Financial Management	16	3 lpw		Semester 2						
	Management 220										
The purpose and functioning of management accounting, cost classification; the											
determination of product costs including raw material costs, labour costs, overheads and its											
allocation			,	0	, ,						
0	ent, the accumulation of c		0, 1		, , ,						
	of joint and by-products a										
	costing approach; decisi				e-profit ratios,						
	sts, risk and uncertainty.		e: [FRK 111 and 1	21]	Year						
	Financial Management Management 300	40	4 lpw		rear						
	ose and functioning of	managam	ont accounting	cost classi	ification Tho						
	ion of product costs inclu										
	tion thereof according to										
	ion of costs according to j			•							
	ducts and the determination		0,	,	,						
	Decision-making with refe										
and uncer	tainty, decision trees, li	near progra	amming and cap	ital investm	nent budgets.						
	of project management										
quantitativ	e techniques, budgets a	nd standar	d costing. Perform	mance mea	asurement by						
means of	the principles of respon	sibility acc	ounting and the o	determinatio	on of transfer						
prices. Fi	nancial Management by	/ takina c	ognisance of the		means of the principles of responsibility accounting and the determination of transfer						
prices. Financial Management by taking cognisance of the purpose of Financial Management, working capital management, financing decisions, cost of capital, dividend											
		igement, fir	nancing decisions,	cost of ca	pital, dividend						
policy, cap	bital structure decisions,	igement, fir share valu	nancing decisions, ation. The studer	cost of ca	pital, dividend						
policy, cap applying th	bital structure decisions, the underlying theory to adv	igement, fir share valu	nancing decisions, ation. The studer	cost of ca	pital, dividend						
policy, cap applying th <b>Prerequis</b>	bital structure decisions, the underlying theory to adv ite: [FBS 200]	igement, fir share valu /ance case	nancing decisions, lation. The studer studies.	cost of ca	pital, dividend e capable of						
policy, cap applying th <b>Prerequis</b> <b>FBS 310</b>	bital structure decisions, the underlying theory to adv ite: [FBS 200] Financial Management	igement, fir share valu	nancing decisions, ation. The studer	cost of ca	pital, dividend						
policy, cap applying th Prerequis FBS 310 Financial	bital structure decisions, the underlying theory to adv ite: [FBS 200] Financial Management Management 310	igement, fir share valu vance case 20	nancing decisions, nation. The studer studies. <b>3 Ipw</b>	cost of cap at should b	pital, dividend e capable of Semester 1						
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Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
FRK 121	Financial Accounting	12	A&E 4 lpw		Semester 2
	Accounting 121				
	of financial statements in				
	eet, cash flow statement				ial statements
	artnerships, close corporat	tions. Introd	luction to companie	es.	
	ites: [FRK111 GS]	1	1	1	r
	Financial Accounting	32	A&E 4 lpw		Year
Accounting	Accounting 201 for investment transac ion techniques and prepa				
	on of company annual fina				
	npanies Act and certain s				
	of interim reports and		0 , 1		01
	s Act requirements. Prere				•
	Financial Accounting	16	A&E 4 lpw		Semester 1
	Accounting 211			1	
	aspects of the Companie	es Act and t	he Fourth Schedul	e. conceptu	al framework.
	ecognition. Earnings and				
	es in accounting policies				
Branches.	, · · · · · · · · · · · · · · · · · · ·		<b>J</b>		
Prerequisi	ite: [FRK 111, 121; IT.2(d)	)]			
FRK 221	Financial Accounting	16	A&E 4 lpw		Semester 2
	Accounting 221				
Tangible a	and intangible assets. Int	erest beari	ing investments.	Speculative	Investments.
Inventories	. Change in organization	onal form.	Introduction to	group state	ements. Joint
Ventures.	Associated enterprises.				
	i <b>te: [FRK 211 GS, INF 18</b> 1	1]			P
FRK 300	Financial Accounting	40	A&E 41/2 lpw		Year
Financial A	Accounting 300				
introduction Introduction well as he statements such report complex pr <b>Prerequis</b>	of accounting requirement in to company tax. Viewpo in to group statements (corrizontal, vertical and mi is (including cash-flow stat rts are used for. The tec roblems, is essential. ite: [FRK 201]	vints regard consolidated xed groups tement) with chnical abil	ing generally acce accounts), with s. Analysis and in h reporting for the ity to apply the a	pted accou minority sh nterpretatio various pu	nting practice. areholders as n of financial irposes which
FRK 311	Financial Accounting	20	A&E 4 lpw		Semester 1
	Accounting 311				
	general accepted accou	unting pract	tice. Overview of	the related	taxation and
auditing as	P				
	ites: [FRK 211, 221, BEL :	220]			P
	Financial Accounting	20	A&E 4 lpw		Semester 2
Integrated Foreign er Consolidat	Accounting 321 group statements. Minori ntities. Integrated group ed cash flow statements. S ites: [FRK 311 GS, BEL 2	statements Segmental	, including assoc		

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester						
					Year						
INF 181	Financial Accounting	3	A&E 2 lpw		Sem 1 or 2						
	Accounting 181										
	in both the first and se	econd seme	ester.) Computer p	processing	of accounting						
information.											
	ites: [IT.2(d)]			1							
КОВ	Marketing and	5	A&E 3 lpw		Sem 1, 2, 3,						
181-184	Communication				4						
	Management										
	cation Management 181-										
	ontent will be adapted in a		with the appropriate	e degree pr	ogramme.)						
P.P	isiness communication ski										
	basic business communic										
	and leaders in the busine										
	nal, dyadic, interpersona										
	ation contexts is provided										
	business reports and p			tes on the	performance						
dimension	s of these skills as applied	to particula			1						
KOB 210	Marketing and	16	A&E 3 lpw		Sem 1						
l .	Communication										
	Management										
Communi	cation Management 210										
Managem	ent communication										
Based on the paradigm of Integrated Communication (IC), this semester covers											
Based on											
Based on manageme	ent communication theory,	leadership	and supervisory c	ommunicati	ion, as well as						
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Based on management the management communic	ent communication theory, gement of change and ation in the global arena	leadership transformat focuses on	and supervisory c ion through comr the dynamics an	ommunicati nunication. d celebratio	on, as well as Management on of diversity						
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code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year		
of the enterprise, corporate and corporate communication strategies of the organisation. The corporate positioning that results from these strategies is communicated through the organisation's unique reputation, image, identity and brand. Environmental scanning furthermore enables the organisation to identify and address issues, risks and possible crises that can influence this positioning. Current corporate governance thinking supports the principle of a symbiotic relationship between business and society by emphasising economic, environmental and social sustainability (the triple bottom-line). This culminates in a new realisation of the organisation's corporate social responsibility and its role as a corporate citizen. Ethics in strategic management are highlighted and applicable research techniques are analysed.							
	Marketing and	20	A&E 3 lpw		Sem 2		
	Communication						
	Management						
relationshi The growi justifies th and teleol relationshi The compl	n's 'licence to operate'. S ps with stakeholders such ng significance and poten e management of such pr ogical ethical approache ps. exity of ethical decision-m and African ethics amor	as employ tial impact ressure gro s are inve naking in the	ees, investors, me of activism on org ups through comr stigated in the s e modern business	edia and the janisational nunication. trategic ma s environme	e government. performance, Deontological anagement of ent, as well as		
stakeholde reputation OBS 110 Business	er audits are examples of management. Business Management Management 110	idiosyncrati	c research design	s undertake	en in strategic Sem 1		
stakeholde reputation OBS 110 Business Introductio	er audits are examples of management. Business Management Management 110 n to Business Manager	idiosyncrati 10 nent as a	c research design A&E 3 Ipw science, the en	s undertake vironment	en in strategic Sem 1 in which the		
stakeholde reputation OBS 110 Business Introductio enterprise	er audits are examples of management. Business Management Management 110	idiosyncrati 10 nent as a business, t	c research design A&E 3 lpw science, the en he mission and	s undertake vironment goals of a	en in strategic Sem 1 in which the an enterprise,		
stakeholde reputation OBS 110 Business Introductio enterprise manageme	er audits are examples of management. Business Management Management 110 n to Business Manager operates, the field of I	idiosyncrati <b>10</b> nent as a business, t . The choid	c research design A&E 3 lpw science, the en he mission and ce of a form of e	s undertake vironment goals of a enterprise,	en in strategic Sem 1 in which the an enterprise, the choice of		
stakeholder reputation OBS 110 Business Introductio enterprise management products a choice of	er audits are examples of management. Business Management Management 110 n to Business Manager operates, the field of l ent and entrepreneurship nd/or services, profit and location, the nature of p	idiosyncrati <b>10</b> nent as a business, t . The choic cost planni	c research design <b>A&amp;E 3 lpw</b> science, the en he mission and ce of a form of en ng for different siz	s undertake vironment goals of a enterprise, f es of opera	en in strategic Sem 1 in which the an enterprise, the choice of ting units, the		
stakeholder reputation OBS 110 Business Introductio enterprise management products a choice of operating	er audits are examples of management. Business Management Management 110 n to Business Manager operates, the field of l ent and entrepreneurship nd/or services, profit and location, the nature of p unit.	idiosyncrati <b>10</b> nent as a business, t . The choic cost planni production p	c research design <b>A&amp;E 3 lpw</b> science, the en he mission and ce of a form of e ng for different siz processes and th	s undertake vironment goals of a enterprise, f es of opera	en in strategic Sem 1 in which the an enterprise, the choice of ting units, the the plant or		
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stakeholder reputation OBS 110 Business Introductio enterprise manageme products a choice of operating u OBS 113 Entrepren Introductio construct entreprene	er audits are examples of management. Business Management Management 110 n to Business Manager operates, the field of l ent and entrepreneurship nd/or services, profit and location, the nature of p int. Entrepreneurship eurship 113 n to the South African of including the culture of eurs, entrepreneurship in the	idiosyncrati <b>10</b> ment as a business, t . The choir cost planni broduction p <b>10</b> entrepreneu entrepreneu ne informal	c research design A&E 3 Ipw science, the en he mission and ce of a form of e ng for different siz processes and th A&E 3 Ipw urship environmen eurship. Characte sector.	s undertake	en in strategic Sem 1 in which the an enterprise, the choice of ting units, the the plant or Sem 1 neurship: the South African		
stakeholder reputation OBS 110 Business Introductio enterprise manageme products a choice of operating to OBS 113 Entrepren Introductio construct entreprene OBS 120	er audits are examples of management. Business Management Management 110 n to Business Manager operates, the field of I ent and entrepreneurship nd/or services, profit and location, the nature of p unit. Entrepreneurship eurship 113 n to the South African o including the culture of	idiosyncrati <b>10</b> ment as a business, t . The choir cost planni broduction p <b>10</b> entrepreneu entrepreneu ne informal	c research design A&E 3 Ipw science, the en he mission and ce of a form of e ng for different siz processes and th A&E 3 Ipw urship environmen eurship. Characte	s undertake	sen in strategic Sem 1 in which the an enterprise, the choice of ting units, the the plant or Sem 1 neurship: the		

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year			
(Note: For	information manageme	nt students,	information man	agement is	replaced by			
small business management.)								
Prerequis	ite: [OBS 110 GS]							
	Entrepreneurship	10	A&E 3 lpw		Sem 2			
Entrepren	eurship 123							
Feasibility	of new opportunities, th	e business	plan and its subs	sections: M	arketing plan,			
	l plans, financial plan, p							
•	eurship in South Africa,	case stud	lies of successfu	I entreprer	eurs, female			
entreprene								
	ite: [OBS 113GS]							
	Business Management	16	A&E 3 lpw		Sem 1			
	Management 210							
0	nanagement.							
	f logistics in an enterpris							
	logistics information sys							
	al reference to Japanese							
	and transport costs, types		0,					
	cost and price determination		ases, organising f	or logistics	management,			
	or improving logistics perfo							
	ite: [OBS 110 or 120 with							
	Entrepreneurship	16	A&E 3 lpw		Sem 1			
	eurship 213							
	innovation and identificati							
	reativity, barriers to creat							
•	solving and identification							
	ent of ideas, evaluation							
	personal attributes and a			enhanceme	ent of intuitive			
	rerequisite: [OBS 113 or							
	Business Management	16	A&E 3 lpw		Sem 2			
	Management 220							
	anagement – introductory							
	t, the project manager a							
	nmunication and docume		0	0,	0			
schedule (	control of projects, resou	rce conside	erations and alloca	itions, cost	planning and			
performan	ce evaluation.							
performan Prerequis	ce evaluation. ite: [OBS 110 or 120 with	1	other]	[	0			
performan Prerequis OBS 223	ce evaluation. ite: [OBS 110 or 120 with Entrepreneurship	a GS in the 16			Sem 2			
performan Prerequis OBS 223 Entrepren	ce evaluation. ite: [OBS 110 or 120 with Entrepreneurship eurship 223	16	other] A&E 3 Ipw	4				
performan Prerequis OBS 223 Entrepren Entreprene	ce evaluation. ite: [OBS 110 or 120 with Entrepreneurship eurship 223 eurial process, new ideas,	16 identificatio	other] A&E 3 Ipw on of opportunities,		eneurial mind			
performan Prerequis OBS 223 Entreprene in action, f	ce evaluation. ite: [OBS 110 or 120 with Entrepreneurship eurship 223 eurial process, new ideas, the entrepreneurial manage	identificatio	other] A&E 3 Ipw on of opportunities, isiness plans. Ethi	cs and the	eneurial mind entrepreneur,			
performan Prerequis OBS 223 Entreprene Entreprene in action, f manageme	ce evaluation. ite: [OBS 110 or 120 with Entrepreneurship eurship 223 eurial process, new ideas, the entrepreneurial mana- ent of growth, entrepre	ו <b>ל6</b> identificatic ger, new bu neurs in נ	other] A&E 3 Ipw on of opportunities, isiness plans. Ethi	cs and the	eneurial mind entrepreneur,			
performan Prerequis OBS 223 Entreprene Entreprene in action, 1 manageme entreprene	ce evaluation. ite: [OBS 110 or 120 with Entrepreneurship eurship 223 eurial process, new ideas, the entrepreneurial mana- ent of growth, entrepre eurial process (harvesting)	ו <b>ל6</b> identificatic ger, new bu neurs in נ	other] A&E 3 Ipw on of opportunities, isiness plans. Ethi	cs and the	eneurial mind entrepreneur,			
performan Prerequis OBS 223 Entreprene Entreprene in action, f manageme entreprene Prerequis	ce evaluation. ite: [OBS 110 or 120 with Entrepreneurship eurship 223 eurial process, new ideas, the entrepreneurial mana- ent of growth, entrepre eurial process (harvesting) ite: [OBS 213 GS]	identificatic ger, new bu neurs in τ	other] A&E 3 Ipw on of opportunities, isiness plans. Ethi unsuccessful busi	cs and the	reneurial mind entrepreneur, osure of the			
performan Prerequis OBS 223 Entreprene Entreprene in action, f manageme entreprene Prerequis OBS 313	ce evaluation. ite: [OBS 110 or 120 with Entrepreneurship eurship 223 eurial process, new ideas, the entrepreneurial mana- ent of growth, entrepre eurial process (harvesting) ite: [OBS 213 GS] Entrepreneurship	ו <b>ל6</b> identificatic ger, new bu neurs in נ	other] A&E 3 Ipw on of opportunities, isiness plans. Ethi	cs and the	eneurial mind entrepreneur,			
performan Prerequis OBS 223 Entreprene in action, t manageme entreprene Prerequis OBS 313 Entreprene	ce evaluation. ite: [OBS 110 or 120 with Entrepreneurship eurship 223 eural process, new ideas, the entrepreneurial mana- ent of growth, entrepre- eurial process (harvesting) ite: [OBS 213 GS] Entrepreneurship eurship 313	16 identificatic ger, new bu neurs in u ).	other] A&E 3 Ipw on of opportunities, isiness plans. Ethi insuccessful busi A&E 3 Ipw	cs and the nesses, clo	reneurial mind entrepreneur, osure of the Sem 1			
performan Prerequis OBS 223 Entreprene Entreprene entreprene Prerequis OBS 313 Entrepren Nature of	ce evaluation. ite: [OBS 110 or 120 with Entrepreneurship eurship 223 eurial process, new ideas, the entrepreneurial mana- ent of growth, entrepre eurial process (harvesting) ite: [OBS 213 GS] Entrepreneurship eurship 313 small business manage	16 identificatic ger, new bu neurs in u ). 20 ement, man	other] A&E 3 Ipw on of opportunities, isiness plans. Ethi insuccessful busi A&E 3 Ipw agement of entre	cs and the nesses, clo preneurial	reneurial mind entrepreneur, osure of the Sem 1 opportunities,			
performan Prerequis OBS 223 Entreprene In action, f manageme entreprene Prerequis OBS 313 Entrepren Nature of manageme	ce evaluation. ite: [OBS 110 or 120 with Entrepreneurship eurship 223 eural process, new ideas, the entrepreneurial mana- ent of growth, entrepre- eurial process (harvesting) ite: [OBS 213 GS] Entrepreneurship eurship 313	16 identificatic ger, new bu neurs in u ). 20 ement, man small busin	other] A&E 3 Ipw on of opportunities, isiness plans. Ethi insuccessful busi A&E 3 Ipw agement of entre ess marketing, pur	cs and the nesses, clo preneurial chasing, op	reneurial mind entrepreneur, osure of the Sem 1 opportunities, perational and			

code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
legal requi	rements entrepreneurial b	usinesses h	have to comply with	ן ו	rear
	ite: [OBS113, 123, 213, 2		lave to comply tha	••	
	Business Management		A&E 3 lpw		Sem 1
	Management 315	20	Ade o ipir		
	on to electronic busines	e			
	ction to the field of elect		ess in which the	implications	s of electronic
	on the enterprise and exi				
	is concerning aspects of e				
	ite: [OBS 110, or 120 with				
	Entrepreneurship	20	A&E 3 lpw		Sem 2
	eurship 323	20	Ade o ipir		
	ent of performance motiv	ation deve	alonment of nositiv	e motives	role models
	erformance motivation, rei				
action plar		morcement			strategies and
	g, small business cons	ultation b	usiness acquisitio	ns mento	rshin female
	eurs, family business, hom	,		,	iomp, iemale
	ite: [OBS 313 GS]	e muusines	and management	or growth.	
	Business Management	20	A&E 3 lpw		Sem 2
	Management 325	20	Ade o ipi		
	on to electronic commer				
	ction to the domain of el		mmorco in which	the implicat	tions of online
	the enterprise and existin				
			models are studie	u. Slialeyic	positioning of
		maraa aatii	vition will be intra	aduaad E	ma hugingga
			vities will be intro		ome business
application	s concerning e-law with re	egard to e-c	ommerce are also		ome business
application Prerequis	s concerning e-law with re ite: [OBS 110, or 120 with	egard to e-c a GS in the	ommerce are also e other]		-
application Prerequis	s concerning e-law with re ite: [OBS 110, or 120 with School: Public	egard to e-c	ommerce are also		Sem 1
application Prerequis PAD 110	s concerning e-law with re ite: [OBS 110, or 120 with School: Public Management	egard to e-c a GS in the	ommerce are also e other]		-
application Prerequis PAD 110 Public Ad	s concerning e-law with re ite: [OBS 110, or 120 with School: Public Management ministration 110	egard to e-c a GS in the <b>10</b>	ommerce are also e other] 3 Ipw	dealt with.	
application Prerequis PAD 110 Public Ad Introductio	s concerning e-law with re ite: [OBS 110, or 120 with School: Public Management ministration 110 n and Constitutional Fram	egard to e-c a GS in the <b>10</b> ework of Pt	ommerce are also e other] 3 Ipw ublic Administration	dealt with.	Sem 1
application Prerequis PAD 110 Public Ad Introductio South Afric	s concerning e-law with re ite: [OBS 110, or 120 with School: Public Management ministration 110 n and Constitutional Fram can system of governmen	egard to e-c a GS in the <b>10</b> ework of Pt t. Dynamic	ommerce are also e other] 3 Ipw ublic Administration nature of Public A	dealt with.	Sem 1
application Prerequis PAD 110 Public Ad Introductio South Africi judicial ins	s concerning e-law with re ite: [OBS 110, or 120 with School: Public Management ministration 110 n and Constitutional Fram can system of governmen titutions. Human Rights	egard to e-c a GS in the <b>10</b> ework of Pu t. Dynamic Commission	ommerce are also e other] 3 Ipw ublic Administration nature of Public A n. Commission on	dealt with.	Sem 1 on. Public and quality, Bill of
application Prerequis PAD 110 Public Ad Introductio South Africi judicial ins Rights. Th	s concerning e-law with re- ite: [OBS 110, or 120 with School: Public Management ministration 110 n and Constitutional Fram can system of governmen titutions. Human Rights ne roles of public adm	egard to e-c a GS in the <b>10</b> <i>ework of Pt</i> t. Dynamic Commission inistration,	ommerce are also e other] 3 Ipw ublic Administration nature of Public A n. Commission on Focus of public	dealt with.	Sem 1 on. Public and quality, Bill of ttion. Politics,
application Prerequis PAD 110 Public Ad Introductio South Africi judicial ins Rights. TI governmen	s concerning e-law with re- ite: [OBS 110, or 120 with School: Public Management ministration 110 <i>n and Constitutional Fram</i> can system of governmen titutions. Human Rights ne roles of public adm nt and administration. C	egard to e-c a GS in the <b>10</b> ework of Pa t. Dynamic Commission inistration, Drigin, deve	ommerce are also e other] 3 Ipw <i>ublic Administratior</i> nature of Public A n. Commission on Focus of public elopment and con	dealt with.	Sem 1 on. Public and quality, Bill of ttion. Politics, the discipline.
application Prerequis PAD 110 Public Ad Introductio South Africi judicial ins Rights. TI governmer Approache	s concerning e-law with re- ite: [OBS 110, or 120 with School: Public Management ministration 110 n and Constitutional Fram can system of governmen titutions. Human Rights ne roles of public admini- nt and administration. Cos in public administration.	egard to e-c a GS in the <b>10</b> ework of Pt t. Dynamic Commission inistration, Drigin, deve Relationsh	ommerce are also e other] 3 Ipw <i>ublic Administratior</i> nature of Public A n. Commission on Focus of public elopment and con	dealt with.	Sem 1 on. Public and quality, Bill of ttion. Politics, the discipline.
application Prerequis PAD 110 Public Ad Introductio South Afric judicial ins Rights. TI governmer Approache academic	s concerning e-law with re- ite: [OBS 110, or 120 with School: Public Management ministration 110 n and Constitutional Fram can system of governmen titutions. Human Rights he roles of public adm nt and administration. C es in public administration.	egard to e-c a GS in the <b>10</b> ework of Pt t. Dynamic Commission inistration, Drigin, deve Relationsh functions.	ommerce are also e other] 3 Ipw ublic Administration nature of Public A n. Commission on Focus of public elopment and con ips between public	dealt with.	Sem 1 on. Public and quality, Bill of ttion. Politics, the discipline. ttion and other
application Prerequis PAD 110 Public Ad Introductio South Afric judicial ins Rights. TI governmer Approache academic	s concerning e-law with re ite: [OBS 110, or 120 with School: Public Management ministration 110 n and Constitutional Fram can system of governmen titutions. Human Rights he roles of public administration. C is in public administration. disciplines. Administrative School: Public	egard to e-c a GS in the <b>10</b> ework of Pt t. Dynamic Commission inistration, Drigin, deve Relationsh	ommerce are also e other] 3 Ipw <i>ublic Administratior</i> nature of Public A n. Commission on Focus of public elopment and con	dealt with.	Sem 1 on. Public and quality, Bill of ttion. Politics, the discipline.
application Prerequis PAD 110 Public Ad Introductio South Africi judicial ins Rights. TI governmer Approache academic PAD 120	s concerning e-law with re ite: [OBS 110, or 120 with School: Public Management ministration 110 n and Constitutional Fram can system of governmen titutions. Human Rights ne roles of public administration. C is in public administration. disciplines. Administrative School: Public Management	egard to e-c a GS in the <b>10</b> ework of Pt t. Dynamic Commission inistration, Drigin, deve Relationsh functions.	ommerce are also e other] 3 Ipw ublic Administration nature of Public A n. Commission on Focus of public elopment and con ips between public	dealt with.	Sem 1 on. Public and quality, Bill of ttion. Politics, the discipline. ttion and other
application <b>Prerequis</b> <b>PAD 110</b> <b>Public Ad</b> <i>Introductio</i> South Africial ins Rights. Ti governmer Approaches academic - <b>PAD 120</b> <b>Public Ad</b>	s concerning e-law with re ite: [OBS 110, or 120 with School: Public Management ministration 110 n and Constitutional Fram can system of governmen titutions. Human Rights he roles of public administration. C is in public administration. C is in public administrative School: Public Management ministration 120	egard to e-c a GS in the <b>10</b> ework of Pe t. Dynamic Commission inistration, origin, deve Relationsh functions. <b>10</b>	ommerce are also e other] 3 lpw ublic Administration nature of Public A n. Commission on Focus of public elopment and con ips between public 3 lpw	dealt with. ddministratio Gender E administra ntents of t c administra	Sem 1 on. Public and quality, Bill of ttion. Politics, the discipline. tion and other
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Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
PAD 210	School: Public Management	16	3 lpw		Sem 1
Public Ad	ministration 210				r
Public Org	anisational Dynamics and	d Policy Stud	dies		
Organisati	on and management	concepts.	Bureaucratization.	Organisat	ional culture.
	ntalisation in the variou				
	onal change and develop				
	nd organizational analysi				
	on development. Rolepla				
	naking and problem solvi				
	inion. Policy implement				
	s. The press and public				
	nd governance. Quantati		policy making. P	olicy analys	sis. Analytical
PAD 220	lies. Tools of policy analy School: Public	sis. 16	3 lpw		Sem 2
PAD 220	Management	10	3 ipw		Sem 2
Public Ad	ministration 220				
	tor Financial Managemer	at and Huma	n Resource Mana	rement	
	ne public sector manage				n of financial
	Accounting systems. Sta				
			agement Cooper		
Regulation	and competition policy	. Debt man	0 1	ative gover	nment. Fiscal
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Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
STK 110	Statistics	13	A&E 3 lpw + 1 ppw		Sem 1

### Statistics 110

Descriptive Statistics

Sampling and the collection of data, frequency distributions and graphical representations. Descriptive measures of location and dispersion.

Probability and inference

Introductory probability theory and theoretical distributions. Sampling distributions. Estimation theory and hypothesis testing of sampling averages and proportions (one- and two-sample cases). Identification, use, evaluation and interpretation of statistical computer packages and statistical techniques.

Prerequisite: Mathematics 50%(D) HG or 70%(B) SG

		10 01 10/01	2/00	
STK 113	Statistics	111/2	A&E 3 lpw + 1	Sem 1
			ppw	

#### Statistics 113

Data operations and transformations

Introductory concepts: the role of Statistics, various types of data and the number system. Concepts underlying linear, quadratic, exponential, hyperbolic and logarithmic transformations of quantitative data: graphical representations, solving of equations and interpretations. Determining linear equations in practical situations. Characteristics of logarithmic functions. The relationship between the exponential and logarithmic functions in economic and related problems. Systems of equations in equilibrium. Additional concepts relating to data processing: functions and inverse functions, sigma notation, factorial notation, sequences and series, inequalities (strong, weak, absolute, conditional and double) and absolute values.

#### Descriptive Statistics – Univariate

Sampling and the collection of data, frequency distributions and graphical representations. Descriptive measures of location and dispersion. Identification, use, evaluation and interpretation of statistical computer packages and statistical techniques.

STK120	Statistics	13	A&E 3 lpw + 1	Sem 2
			ppw	

## Statistics 120

Multivariate statistics:

Analysis of variance, categorical data analysis, distribution-free methods, curve fitting, regression and correlation, the analysis of time series and indices. Statistical and economical applications of quantitative techniques: Systems of linear equations:

drafting, matrices, solving and application. Optimisation: linear functions (two and more independent variables), non-linear functions (one and two independent variables). Marginal and total functions. Stochastic and deterministic variables in statistical and economical context: producers' surplus, consumers' surplus, distribution functions, probability distributions and probability density functions. Identification, use, evaluation and interpretation of statistical computer packages and statistical techniques.

#### Prerequisite: [STK110 GS]

STK 123	Statistics	11½	A&E 3 lpw + 1	Sem 2
			ppw	

## Statistics 123

Optimization techniques with economic applications

Data transformations and relationships with economic applications: operations and rules, linear, quadratic, exponential, hyperbolic and logarithmic functions, systems of equations in

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester
				louining	Year
of the grap in statistic the deriva techniques <i>Probability</i> Introductor Estimation two-sampl packages	i, system of linear inequali bhical and extreme point r and economic related prof tive of a function, differe b, the area under a curve a and inference y probability theory ar theory and hypothesis te e cases). Identification, us and statistical techniques. ite: [STK113 GS]	methods. A plems: the li entiation ru ind applicat ad theoreti sting of sar	pplications of diffe imit of a function, o les, higher order ions of definite inte cal distributions. npling averages a	rentiation a continuity, ra derivatives grals. Sampling nd proportio	nd integration ate of change, , optimization distributions. ons (one- and

# IT.31.4 THE FOLLOWING MODULES FALL UNDER THE FACULTY OF HUMANITIES

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year	
AFR 110		12	A 2 lpw	WebCT	Semester 1	
Afrikaans '	110 Ou mod.: AFR	R 159+160:	Taal- en Teksvaar	digheid I en I	l	
Taal- en te	ksvaardigheid:					
	gheid (norme vir Afr					
	ig van o.a. verskille				,	
	sieskemas, stilistiese			rsing en	taalversorging).	
	e skryfvaardigheid kom			I		
AFR 120		12	A 2 lpw	WebCT	Semester 2	
Afrikaans '	120 Ou mod.: AFR	8 162+163:	Inleiding tot teksstu	udie		
•	ot teksstudie:					
0	t literatuursoorte, verha	aalteorie er	n poësieteorie met	toespitising	op verhaal- en	
eietydse po						
AFR 114		12	A 2 lpw		Semester 1	
Afrikaans '	114 Ou mod.: AFR	R 164+165:	Afrikaans vir Sprek	ers van ande	er tale 1 en 2	
	vir Sprekers van ande					
	rde praat-, luister-, lees			orderde aanle		
AFR 124	Afrikaans	12	A 2 lpw		Semester 2	
Afrikaans '			Afrikaans vir Sprek	ers van ande	er tale 3 en 4	
	vir Sprekers van ande					
Geïntegree	rde praat-, luister-, lees	<ul> <li>en skryfva</li> </ul>	aardighede vir gevo	orderde aanle	erders.	
AFR 265	Afrikaans	10	A 1 lpw	WebCT	Sem 1	
Leer Nederlands 265						
Die verwerwing van Nederlands as 'n tweede en 'n vreemde taal binne goed omlynde						
algemene beginsels, met die klem op spreekvaardighede.						
AFR 266	Afrikaans	10	A 2 lpw	WebCT	Qr 1	
Afrikaanse letterkunde (1) 266						
'n Ondersoek na teoretiese, literêr-historiese en tematiese aspekte van die Afrikaanse verhaaltradisie.						

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year		
AFR 267	Afrikaans	10	A 2 lpw	WebCT	Qr 2		
Afrikaanse	letterkunde (2) 267						
'n Ondersoek na teoretiese, literêr-historiese en tematiese aspekte van die Afrikaanse poësietradisie.							
AFR 268	Afrikaans	10	A 2 lpw	WebCT	Qr 1		
	se letterkunde (1) 268	1					
'n Keuse ui	t eietydse Nederlandsta - en resepsieaangeleent	0	uur; analitiese teks	ondersoeke	met aandag aar		
0 0	Afrikaans	10	A 2 lpw	WebCT	Qr 3		
	vir die onderwys 269	10	A 2 ipw	Weber	QI J		
Studie van	uitkomsgebaseerde derwys; insigte uit die m	<b>,</b> ,	0	,			
AFR 358	Eenheid vir Akade-	15	A 2 lpw	WebCT	Qr 4		
Redigering	miese Geletterdheid						
	van Afrikaanse tekste prrektheid, bibliografies pe.						
AFR 362	Afrikaans	15	A 2 lpw	WebCT	Qr 3		
<b>Afrikaanse</b> 'n Gevorde Afrikaanse	Afrikaans letterkunde (4) 363 erde ondersoek na teo poësietradisie.	,	1		•		
AFR 364	Afrikaans	15	A 2 lpw	WebCT	Qr 4		
	se letterkunde (2) 364						
	rde studie van eietydse						
AFR 365	Afrikaans	15	A 2 lpw	WebCT	Qr 2		
Afrikaanse taalkunde 365         Capita selecta uit die Afrikaanse taalkunde: Afrikaanse fonetiek, morfologie, sintaksis, leksi- kologie en leksikografie; Afrikaanse diversiteit; Afrikaanse pragmatiek en die diachronie van Afrikaans.         AFR 366       Afrikaans         15       Nederlands							
			1 lpw				
* Vereiste: J	r <b>lands (2) 366</b> AFR 265 wing van Nederlands a	s 'n tweed		al binne die	kader van goed		
Hierdie mo	gemene beginsels. dule bou voort op AF se strukture. Skryfvaardi				woordeskat e		
EAG 151	Academic	6	A&E 2 lpw	A&E 2 lpw	Quarter 1		
	skills 151 ademic skills to be able roblems through analyti		als, manage time,	•			

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester
ENO 450	E				Year
ENG 158	English	6	E 2 lpw 1 dpw		Qr 4
English for	r specific purposes 15	8	41	de de la set Eur	
i nis modul	e is intended to equip s	students wi	th a thorough know	wiedge of Er	igiisn grammar,
	ticularly useful for thos		d in a career in	teaching, edi	ting, document
U	ther forms of language				
ENG 110		12	E 2 lpw 1 dpw	E 2 dpw	Sem 1
English 11					
	on to Literature in Engl				
	e introduces the study				
	nres (poetry, prose, dra				
	entury era and may inc		•		
	world. The aim of this				al and analytical
	ed for a perceptive read	, <b>č</b> .			
	English	12	E 2 lpw 1 dpw	E 2 dpw	Sem 2
English 12					
Introductio	on to Literature in Engl	lish (2)			
This modu	le introduces the stud	y of post-i	nineteenth century	literature b	y examining a
number of t	exts representing different	ent genres	(poetry, drama, pro	ose). Texts v	vill be from both
Africa and	other parts of the work	d. By the	end of this modul	e students s	hould have the
background	l and analytical skills	to percepti	vely read modern	and conten	nporary poetry,
novels and	plays.				
ENG 251	English	10	E 2 lpw 1 dpw	E 2 dpw	Qr 4
Poetry after	r 1798 251				
* Requires	ENG 151				
In this mod	ule, students will study t	the work of	poets ranging from	n the Roman	tic period to the
Modern. Th	ne general characteristi	cs and tec	hniques of specific	c poets will b	be discussed in
relation to c	levelopments in aesthet	ic theory a	nd socio-historical	changes.	
	English	10	E 2 lpw 1 dpw	E 2 dpw	Qr 2
Language	studies 252				
In this mod	ule, students will be int	roduced to	basic linguistic ar	id socio-lingu	istic disciplines
including th	ne study of English pho	onetics and	I syntax. The histo	ory and deve	elopment of the
English lan	guage will be outlined a	nd various	areas of applied lir	iguistics high	lighted.
ENG 253	English	10	E 2 lpw 1 dpw	E 2 dpw	Qr 3
The moder	n novel 253				
* Requires	ENG 153				
In this mod	lule, students will read	a represen	tative selection of	late 19th-ce	ntury and 20th-
century Eng	glish novels. They will a	also be intr	oduced to the key	principles o	f the modernist
movement,	elementary narratology	and other	relevant theoretica	I and critical	concepts.
ENG 254	English	10	E 2 lpw 1 dpw	E 2 dpw	Qr 1
Twentieth-	century drama 254				·
* Requires	ENG 154				
In this mod	ule, an overview of sigr	nificant tren	ds in British and A	merican drai	ma, exemplified
in key texts	s, is given. At the end o	of this modu	ule, students shou	d have an u	nderstanding of
	ment of Anglo-America				5
ENG 351	English	15	E 2 lpw 1 dpw	E 2 dpw	Qr 2
	ore 1798 351		· · ·		
* Requires					
'	ule, students will study	the works	of representative p	oets from Ch	naucer to Pope.

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year					
The genera	I characteristics and te	chniques c	f specific poets wi	I be discusse						
developments in aesthetic theory and socio-historical change.										
ENG 353	English	15	E 2 lpw 1 dpw	E 2 dpw	Qr 3					
	the novel 353	-	F							
* Requires	ENG 253									
	ule, students will read a	a represent	ative selection of 1	8th and 19th	-century novels					
	Various literary theories									
	udents should be able									
period with	enhanced understandir	ng and sopl	nistication.		Ū					
ENG 354	English	15	E 2 lpw 1 dpw	E 2 dpw	Qr 1					
Shakespea	ire 354	1								
* Requires	ENG 254									
,	e will examine several of	of Shakesp	eare's plays in the	genres of co	medy, tragedy,					
	romance. By the end of									
Shakespea	re's dramatic oeuvre, b	e able to	discuss characteris	tic features	of his work and					
	ed analyses of scenes									
ENG 355	English	15	E 2 lpw 1 dpw	E 2 dpw	Qr 4					
African lite		1								
This modul	e will examine a variet	v of Africa	n and South Africa	in texts in Er	nalish. includina					
	ma and prose. Texts									
characterist	ic features of and de	velopment	s in African litera	ture as well	as theoretical					
	his field will be highligh									
ENG 356	English	15	E 2 lpw		Qr 3					
Introductio	······································									
Introduction to Teaching English to students of other languages (1) 356										
* Requires		n to studer	its of other langua	ages (1) 356						
* Requires			its of other langu	ages (1) 356	1					
* Requires * Requires This modul	ENG 158 a minimum of 64 credits e introduces both the t	<i>ENG</i> heoretical	and practical dime	nsions of TE						
* <i>Requires</i> * <i>Requires</i> This modul English to	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La	<i>ENG</i> heoretical inguages).	and practical dime The emphasis of	nsions of TE	is theoretical,					
* <i>Requires</i> * <i>Requires</i> This modul English to	ENG 158 a minimum of 64 credits e introduces both the t	<i>ENG</i> heoretical inguages).	and practical dime The emphasis of	nsions of TE	is theoretical,					
* Requires a * Requires a This module English to covering: (	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La	s ENG heoretical inguages). foreign/sec	and practical dime The emphasis of ond-language lear	nsions of TE this module rning proces	e is theoretical, s; and (ii) the					
* Requires a * Requires a This modul English to covering: ( grammar a learning.	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the t nd sound system of E	s ENG heoretical inguages). foreign/sec	and practical dime The emphasis of ond-language lear n the perspective	nsions of TE this module rning proces	e is theoretical, s; and (ii) the econd-language					
* Requires a * Requires a This modul English to covering: ( grammar a learning. ENG 357	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the f nd sound system of E English	s ENG heoretical inguages). foreign/sec inglish fror	and practical dime The emphasis of ond-language lear n the perspective	nsions of TE this module rning proces of foreign/se	e is theoretical, s; and (ii) the					
* Requires a * Requires a This modul English to covering: ( grammar a learning. ENG 357	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the t nd sound system of E	s ENG heoretical inguages). foreign/sec inglish fror	and practical dime The emphasis of ond-language lear n the perspective	nsions of TE this module rning proces of foreign/se	e is theoretical, s; and (ii) the econd-language					
* Requires a * Requires a This module English to covering: ( grammar a learning. ENG 357 Introductio * Requires	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the f nd sound system of E English n to Teaching English ENG 356	s ENG heoretical a nguages). foreign/sec English fror 15 n to studer	and practical dime The emphasis of ond-language lear n the perspective E 2 lpw ts of other langua	nsions of TE this module rning proces of foreign/se ages (2) 357	e is theoretical, s; and (ii) the econd-language <b>Qr 4</b>					
* Requires a * Requires a This module English to covering: ( grammar a learning. ENG 357 Introductio * Requires a	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the f nd sound system of E English on to Teaching English	s ENG heoretical a nguages). foreign/sec English fror 15 n to studer	and practical dime The emphasis of ond-language lear n the perspective E 2 lpw ts of other langua	nsions of TE this module rning proces of foreign/se ages (2) 357	e is theoretical, s; and (ii) the econd-language <b>Qr 4</b>					
* Requires a * Requires a This module English to covering: ( grammar a learning. ENG 357 Introductio * Requires This module major app	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the f nd sound system of E English n to Teaching English ENG 356 e extends the introduct roaches and methods	<i>ENG</i> heoretical nguages). foreign/sec english fror <b>15</b> <b>to studer</b> tion to TES s of fore	and practical dime The emphasis of ond-language lear in the perspective <b>E 2 Ipw</b> <b>its of other langua</b> OL. Its emphasis ign/second-language	nsions of TE this module rning proces of foreign/se ages (2) 357 is practical, o ge teaching;	e is theoretical, s; and (ii) the econd-language <b>Qr 4</b> covering: (i) the ; (ii) available					
* Requires a * Requires a This module English to covering: ( grammar a learning. ENG 357 Introductio * Requires a This module major app resources a	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the f nd sound system of E English m to Teaching English ENG 356 e extends the introduct roaches and method: for teaching English a	s ENG heoretical foreign/sec English fror 15 n to studer tion to TES s of foreig s a foreig	and practical dime The emphasis of ond-language lear n the perspective <b>E 2 Ipw</b> <b>its of other langua</b> GOL. Its emphasis ign/second-language	nsions of TE this module rning proces of foreign/se ages (2) 357 is practical, o ge teaching e; and (iii) th	e is theoretical, s; and (ii) the econd-language Qr 4 covering: (i) the ; (ii) available ne international					
* Requires a * Requires a This module English to covering: ( grammar a learning. ENG 357 Introductio * Requires a This module major app resources a	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the f nd sound system of E English n to Teaching English ENG 356 e extends the introduct roaches and methods	s ENG heoretical foreign/sec English fror 15 n to studer tion to TES s of foreig s a foreig	and practical dime The emphasis of ond-language lear n the perspective <b>E 2 Ipw</b> <b>its of other langua</b> GOL. Its emphasis ign/second-language	nsions of TE this module rning proces of foreign/se ages (2) 357 is practical, o ge teaching e; and (iii) th	e is theoretical, s; and (ii) the econd-language Qr 4 covering: (i) the ; (ii) available ne international					
* Requires a * Requires a This module English to covering: ( grammar a learning. ENG 357 Introduction * Requires a This module major app resources a TESOL con ENG 358	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the f nd sound system of E English on to Teaching English ENG 356 e extends the introduct roaches and method for teaching English a munity (journals, orgar English	ENG heoretical foreign/sec english fror 15 n to studer tion to TES s of foreignisations, w 15	and practical dime The emphasis of ond-language lear n the perspective <b>E 2 Ipw</b> <b>its of other langua</b> GOL. Its emphasis ign/second-language	nsions of TE this module rning proces of foreign/se ages (2) 357 is practical, o ge teaching e; and (iii) th	e is theoretical, s; and (ii) the econd-language Qr 4 covering: (i) the ; (ii) available ne international					
* Requires a * Requires a This module English to covering: ( grammar a learning. ENG 357 Introduction * Requires a This module major app resources a TESOL con ENG 358 Editing print	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the f nd sound system of E English on to Teaching English ENG 356 e extends the introduct for teaching English a munity (journals, organ English nciples and practice 3	s ENG heoretical foreign/sec English fror 15 n to studer tion to TES s of fore s a foreig hisations, w 15 58	and practical dime The emphasis of ond-language lead n the perspective <b>E 2 lpw</b> <b>its of other language</b> GOL. Its emphasis ign/second-language rebsites, examining <b>E 2 lpw</b>	nsions of TE this module rning proces of foreign/se ages (2) 357 is practical, of ge teaching a; and (iii) th authorities,	e is theoretical, s; and (ii) the econd-language Qr 4 covering: (i) the ; (ii) available he international etc.). Qr 1					
* Requires a * Requires a This modul English to covering: ( grammar a learning. ENG 357 Introductio * Requires a This modul major app resources a TESOL con ENG 358 Editing prin * Requires a	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the f and sound system of E English on to Teaching English ENG 356 e extends the introduct for teaching English a munity (journals, organ English nciples and practice 3 a minimum of 64 credits	s ENG heoretical foreign/sec foreign/sec English fror 15 to studer tion to TES s of foreignisations, w 15 58 s in ENG n	and practical dime The emphasis of ond-language lead in the perspective <b>E 2 Ipw</b> <b>its of other language</b> GOL. Its emphasis ign/second-language rebsites, examining <b>E 2 Ipw</b> modules, with a min	nsions of TE this module rning proces of foreign/se ages (2) 357 is practical, o ge teaching a; and (iii) th authorities, imum averag	e is theoretical, s; and (ii) the econd-language Qr 4 covering: (i) the ; (ii) available he international etc.). Qr 1					
* Requires a * Requires a This modul English to covering: ( grammar a learning. ENG 357 Introductio * Requires a This modul major app resources a TESOL con ENG 358 Editing prin * Requires a	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the f nd sound system of E English on to Teaching English ENG 356 e extends the introduct for teaching English a munity (journals, organ English nciples and practice 3	s ENG heoretical foreign/sec foreign/sec English fror 15 to studer tion to TES s of foreignisations, w 15 58 s in ENG n	and practical dime The emphasis of ond-language lead in the perspective <b>E 2 Ipw</b> <b>its of other language</b> GOL. Its emphasis ign/second-language rebsites, examining <b>E 2 Ipw</b> modules, with a min	nsions of TE this module rning proces of foreign/se ages (2) 357 is practical, o ge teaching a; and (iii) th authorities, imum averag	e is theoretical, s; and (ii) the econd-language Qr 4 covering: (i) the ; (ii) available he international etc.). Qr 1					
* Requires a * Requires a This module English to covering: ( grammar a learning. ENG 357 Introductio * Requires a This module major app resources a TESOL com ENG 358 Editing prii * Requires a second yea * Requires a	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the f nd sound system of E English In to Teaching English ENG 356 e extends the introduct roaches and method: for teaching English a munity (journals, orgar English noiples and practice 3 a minimum of 64 credits r ENG modules OR a p ENG 158.	ENG heoretical inguages). foreign/sec inglish fror <b>15</b> <b>15</b> <b>15</b> <b>15</b> <b>15</b> <b>15</b> <b>15</b> <b>15</b>	and practical dime The emphasis of ond-language lean in the perspective <b>E 2 lpw</b> <b>its of other language</b> <b>isOL</b> . Its emphasis ign/second-language rebsites, examining <b>E 2 lpw</b> modules, with a mining in a departmental en	nsions of TE this module rning proces of foreign/se ages (2) 357 is practical, o ge teaching ; and (iii) th authorities, imum average ntrance test.	e is theoretical, s; and (ii) the econd-language <b>Qr 4</b> covering: (i) the ; (ii) available he international etc.). <b>Qr 1</b> he of 65% in the					
* Requires a * Requires a This module English to covering: ( grammar a learning. ENG 357 Introduction * Requires a This module major app resources a TESOL con ENG 358 Editing prii * Requires a second yea * Requires a This module	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the f nd sound system of E English In to Teaching English ENG 356 e extends the introduct roaches and method: for teaching English a imunity (journals, organ English mciples and practice 3 a minimum of 64 credits r ENG modules OR a p ENG 158. e develops language-ed	ENG heoretical inguages). foreign/sec English fror 15 n to studer tion to TES s of fore s a foreig hisations, w 15 58 s in ENG n ass mark iil	and practical dime The emphasis of ond-language lean in the perspective <b>E 2 lpw</b> <b>its of other langua</b> of the cond-language rebsites, examining <b>E 2 lpw</b> modules, with a min in a departmental endor	nsions of TE this module rning proces of foreign/se ages (2) 357 is practical, o ge teaching; a; and (iii) th authorities, imum averag ntrance test.	e is theoretical, s; and (ii) the econd-language Qr 4 covering: (i) the ; (ii) available he international etc.). Qr 1 re of 65% in the ent fields and of					
* Requires a * Requires a This module English to covering: ( grammar a learning. ENG 357 Introduction * Requires a This module major app resources a TESOL con ENG 358 Editing prii * Requires a second yea * Requires a This module	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the f nd sound system of E English In to Teaching English ENG 356 e extends the introduct roaches and method: for teaching English a munity (journals, orgar English noiples and practice 3 a minimum of 64 credits r ENG modules OR a p ENG 158.	ENG heoretical inguages). foreign/sec English fror 15 n to studer tion to TES s of fore s a foreig hisations, w 15 58 s in ENG n ass mark iil	and practical dime The emphasis of ond-language lean in the perspective <b>E 2 lpw</b> <b>its of other langua</b> of the cond-language rebsites, examining <b>E 2 lpw</b> modules, with a min in a departmental endor	nsions of TE this module rning proces of foreign/se ages (2) 357 is practical, o ge teaching; a; and (iii) th authorities, imum averag ntrance test.	e is theoretical, s; and (ii) the econd-language Qr 4 covering: (i) the ; (ii) available he international etc.). Qr 1 the of 65% in the ent fields and of					
* Requires a * Requires a This module English to covering: ( grammar a learning. ENG 357 Introduction * Requires a This module major app resources a TESOL con ENG 358 Editing prin * Requires a second yea * Requires a second yea this module varying leve work, to pi	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the f nd sound system of E English In to Teaching English ENG 356 e extends the introduct for teaching English a munity (journals, organ English nciples and practice 3 a minimum of 64 credits r ENG modules OR a p ENG 158. e develops language-eo els of complexity for a roduce grammatical, ice	s ENG heoretical ∩ nguages). foreign/sec English fror 15 n to studer tion to TES s of foreignisations, w 15 58 s in ENG n ass mark ii diting skills s specific t diomatic a	and practical dime The emphasis of ond-language lean in the perspective <b>E 2 lpw</b> <b>its of other langua</b> ign/second-language rebsites, examining <b>E 2 lpw</b> indules, with a mini- in a departmental en- on a variety of text arget audience. Si and logical English	nsions of TE this module rning proces of foreign/se ages (2) 357 is practical, o ge teaching; e; and (iii) th authorities, imum averag ntrance test. ts from differe tudents are in texts, takin	e is theoretical, s; and (ii) the econd-language Qr 4 (ii) available ne international etc.). Qr 1 e of 65% in the ent fields and of required to edit g into account					
* Requires a * Requires a This module English to covering: ( grammar a learning. ENG 357 Introductio * Requires a This module major app resources a TESOL con ENG 358 Editing prii * Requires a second yea * Requires a Second yea * Requires a this module varying leve work, to pi	ENG 158 a minimum of 64 credits e introduces both the t Speakers of Other La i) the nature of the f nd sound system of E English In to Teaching English ENG 356 e extends the introduct roaches and method: for teaching English a imunity (journals, organ English mciples and practice 3 a minimum of 64 credits r ENG 158. e develops language-ed els of complexity for a	s ENG heoretical ∩ nguages). foreign/sec English fror 15 n to studer tion to TES s of foreignisations, w 15 58 s in ENG n ass mark ii diting skills s specific t diomatic a	and practical dime The emphasis of ond-language lean in the perspective <b>E 2 lpw</b> <b>its of other langua</b> isOL. Its emphasis gn/second-language rebsites, examining <b>E 2 lpw</b> <b>indules</b> , with a mini- in a departmental en- on a variety of text arget audience. Si and logical English	nsions of TE this module rning proces of foreign/se ages (2) 357 is practical, o ge teaching; e; and (iii) th authorities, imum averag ntrance test. ts from differe tudents are in texts, takin	e is theoretical, s; and (ii) the econd-language Qr 4 (ii) available ne international etc.). Qr 1 e of 65% in the ent fields and of required to edit g into account					

the needs of a specified target audience.

code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
ENG 359	English	15	E 2 lpw		Qr 2
	nciples and practice	359			
* Requires					
	e practises advanced				
	of varying levels of co				
	age editing are applied		•	•	
•	udiences, ranging from	academics	to neo-literate. A	A specialist to	cus is the editing
of translatic EOT 110	Unit for Academic	1	A&E 2 lpw	A&E 2	Sem 1
	Literacy		Tutorial 1 lpw		Semi
Acadomic	literacy (1) 110		Tutonai Tipw	ipw	
	ction to academic liter	acy that co	nsiders various	language lea	rning styles and
	and provides an initial				
•	e focuses initially on	•			0 0
	for academic tasks, a				
	e module has a focus				
initial and e	lementary academic w	riting is atte	mpted.		•
EOT 120	Unit for Academic	6	A&E 2 lpw	A&E 2	Sem 2
	Literacy		Tutorial 1 lpw	lpw	
	iteracy (2) 120				
	ning an emphasis on tl				
	o provides sustained p				
	an academic vocabul				
	ngs together academic				
	in the form of argum		•		e concentrate on
	academic discourse tha Philosophy	12	A&E 2 lpw	and precise.	Sem 1
Philosophy		12	FIL 151 + F	150	Selli I
	on to Philosophy and	Ethics		TL 152	
	le introduces learner		liscipline of Phi	losophy and	the subfield of
	al Ethics. Learners				
	number of classical p				,
	cal anthropology), the	•			•
	In the latter theme the				
interaction	will be examined. This	s will be do	ne by studying s	ome classica	I ethical theories
and then ap	oplying them to conten	nporary moi	ral issues. Throug	ghout the mo	dule there will be
	is on developing those	critical thin	king, reading and	writing skills	that are required
in Philosopl					
	Philosophy	12	A&E 2 lpw		Sem 2
Philosophy		_	FIL 153 + F	IL 254	
	y of Science and Logi				
	is on the nature of sci				
	is explored. Views on				
	nd chaos/complexity a		ated. The pheno	menon of pa	aradigm snifts in
	warminad as well as the	o rolotion h	otwoon values	torprototion -	
science is e	examined as well as th				and knowledge in
science is e the human	examined as well as th sciences. Science is his is the focus of the s	s largely a	question of corre	ect argument	and knowledge in ation and critica

•	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year				
•	nents. A further focus	s is on reco	gnising and avoidir	ng fallacies s	uch as circular				
arguments, straw man and slippery slope arguments, and appeal to fear, spite and pity. Also									
	by analogy and caus								
	on such as vaguer								
	slanders, innuendos,								
explored.	, ,		···· <b>,</b> ···	<b>J</b>					
KGK 120	Visual Arts	12	A/E 3 lpw		Sem 2				
History of A	Art 120	KGK	157	I	1				
Introductio	n to design history								
	design in the twenti	eth century	as both product an	d process F	our themes are				
	ned: the developmen	,							
	n and the impact of								
	on is given to the hist								
	al Revolution to the pr		e deeligh, repredue						
	Criminology	12	A&E 2 lpw		Sem 1				
Criminolog				1					
	tal criminology								
	to criminology, defir	nition of crim	ne crime tendencie	s classical	and positivistic				
	s of crime. Commerc								
also include									
Violent crin									
	ial and mass murder	r necklacing	and farm murders	Assault [,] th	reat of assault				
	the intent to injure.								
the aged. R		r anny viere		, who batton	ing, battoring of				
9	Criminology	12	A&E 2 lpw		Sem 2				
Criminolog				1					
Penology	,								
	attention is given to	the criminal	iustice system to e	mphasise the	e importance of				
	egrated approach in								
usinu dii lill	ality, elements of cr								
			,	0	to a theoretical				
such as leg				ulation in pris					
such as leg framework f		n to awaiting			sons is critically				
such as leg framework f evaluated.	Attention is also give		g trial offenders, th	e importance	sons is critically				
such as leg framework f evaluated. A based sente	Attention is also give ences as well as the r		g trial offenders, th	e importance	sons is critically				
such as leg framework f evaluated. A based sente Crime prev	Attention is also give ences as well as the n <i>rention and control</i>	e-integration	g trial offenders, the of offenders in the	e importance community.	sons is critically of community-				
such as leg framework f evaluated. / based sente Crime prev Responsibili	Attention is also give ences as well as the n <i>rention and control</i> ities of the police an	e-integration	g trial offenders, the of offenders in the unity in crime prev	e importance community. ention and c	sons is critically of community- ontrol. Primary,				
such as leg framework f evaluated. / based sente <i>Crime prev</i> Responsibili secondary a	Attention is also give ences as well as the n <i>rention and control</i>	e-integration	y trial offenders, th of offenders in the unity in crime prev e prevention and re	e importance community. ention and c	sons is critically of community- ontrol. Primary,				
such as leg framework f evaluated. A based sente Crime prev Responsibili secondary a KRM 251	Attention is also give ences as well as the n vention and control ities of the police an and tertiary crime prev	e-integration d the comm vention, crim	g trial offenders, the of offenders in the unity in crime prev	e importance community. ention and c	sons is critically of community- ontrol. Primary, outh Africa.				
such as leg framework f evaluated. A based sente Crime prev Responsibili secondary a KRM 251	Attention is also give ences as well as the n vention and control ities of the police and and tertiary crime prev Criminology riminalistics 251	e-integration d the comm vention, crim 10	g trial offenders, th of offenders in the unity in crime prev e prevention and re A&E 2 Ipw	e importance community. ention and c eduction in Sc	sons is critically of community- ontrol. Primary, outh Africa.				
such as leg framework f evaluated. A based sente Crime prev Responsibili secondary a KRM 251 Forensic cr Crime inve	Attention is also give ences as well as the n vention and control ities of the police and and tertiary crime prev Criminology riminalistics 251 estigation; obtainin	e-integration d the comm <u>vention, crim</u> <b>10</b> g informati	g trial offenders, th of offenders in the unity in crime prev e prevention and re <b>A&amp;E 2 Ipw</b>	e importance community. ention and c	sons is critically of community- ontrol. Primary, outh Africa.				
such as leg framework f evaluated. A based sente Crime prev Responsibili secondary a KRM 251 Forensic cr Crime inv examination	Attention is also give ences as well as the n vention and control ities of the police and and tertiary crime prev Criminology riminalistics 251 estigation; obtainin us; serological examin	e-integration d the comm vention, crim <b>10</b> g informati nations; finge	y trial offenders, th of offenders in the unity in crime prev e prevention and re <b>A&amp;E 2 Ipw</b> ion through cor rprints.	e importance community. ention and c eduction in Sc	sons is critically of community- ontrol. Primary, outh Africa. Qr 1 post-mortem				
such as leg framework f evaluated. / based sente Crime prev Responsibili secondary a KRM 251	Attention is also give ences as well as the n vention and control ities of the police and and tertiary crime prev Criminology riminalistics 251 estigation; obtainin as; serological examin Criminology	e-integration d the comm <u>vention, crim</u> <b>10</b> g informati	g trial offenders, th of offenders in the unity in crime prev e prevention and re <b>A&amp;E 2 Ipw</b>	e importance community. ention and c eduction in Sc	sons is critically of community- ontrol. Primary, outh Africa.				
such as leg framework f evaluated. / based sente Crime prev Responsibili secondary a KRM 251 Forensic cr Crime inv examination KRM 252 Youth mist	Attention is also give ences as well as the n vention and control ities of the police an- and tertiary crime prev Criminology "iminalistics 251 estigation; obtainin is; serological examin Criminology mehaviour 252	e-integration d the comm vention, crim 10 g informati nations; finge 10	g trial offenders, th of offenders in the unity in crime prev e prevention and re A&E 2 Ipw ion through con rprints. A&E 2 Ipw	e importance community. ention and c eduction in Sc nmunication;	sons is critically of community- outrol. Primary, outh Africa. <b>Qr 1</b> post-mortem <b>Qr 2</b>				
such as leg framework f evaluated. / based sente Crime prev Responsibili secondary a KRM 251 Forensic cr Crime inve examination KRM 252 Youth mist	Attention is also give ences as well as the n vention and control ities of the police an and tertiary crime prev Criminology setigation; obtainin is; serological examin Criminology behaviour 252 f the family, school a	e-integration d the comm vention, crim 10 g informati nations; finge 10	g trial offenders, th of offenders in the unity in crime prev e prevention and re A&E 2 Ipw ion through con rprints. A&E 2 Ipw	e importance community. ention and c eduction in Sc nmunication;	sons is critically of community- outh Africa. Qr 1 post-mortem Qr 2				
such as leg framework f evaluated. / based sente Crime prev Responsibili secondary a KRM 251 Forensic cr Crime inve examination KRM 252 Youth mist Influence of explanations	Attention is also give ences as well as the n vention and control ities of the police an and tertiary crime prev Criminalistics 251 estigation; obtainin is; serological examin Criminology behaviour 252 f the family, school a s.	e-integration d the comm vention, crim 10 g informati nations; finge 10 and peer gro	g trial offenders, th of offenders in the unity in crime prev e prevention and re A&E 2 Ipw ion through cor rprints. A&E 2 Ipw oup; gang behaviou	e importance community. ention and c eduction in Sc nmunication;	sons is critically of community- outh Africa. Qr 1 post-mortem Qr 2 ugs; theoretical				
such as leg framework f evaluated. / based sente Crime prev Responsibili secondary a KRM 251 Forensic cr Crime inve examination KRM 252 Youth mist Influence of explanations KRM 253	Attention is also give ences as well as the n vention and control ities of the police an and tertiary crime prev Criminalistics 251 estigation; obtainin is; serological examir Criminology behaviour 252 f the family, school a s. Criminology	e-integration d the comm vention, crim 10 g informati nations; finge 10	g trial offenders, th of offenders in the unity in crime prev e prevention and re A&E 2 Ipw ion through con rprints. A&E 2 Ipw	e importance community. ention and c eduction in Sc nmunication;	sons is critically of community- outh Africa. Qr 1 post-mortem Qr 2				
such as leg framework f evaluated. / based sente Crime prev Responsibili secondary a KRM 251 Forensic cr Crime inve examination KRM 252 Youth mist Influence of explanations KRM 253 Victimolog	Attention is also give ences as well as the n vention and control ities of the police an and tertiary crime prev Criminalistics 251 estigation; obtainin is; serological examir Criminology behaviour 252 f the family, school a s. Criminology	e-integration d the comm vention, crim 10 g informati nations; finge 10 and peer gro	y trial offenders, the of offenders in the unity in crime prevention and re A&E 2 Ipw ion through cor rprints. A&E 2 Ipw oup; gang behavior A&E 2 Ipw	e importance community. ention and c eduction in So nmunication; ur; use of dr	sons is critically of community- outrol. Primary, outh Africa. <b>Qr 1</b> post-mortem <b>Qr 2</b> ugs; theoretical <b>Qr 3</b>				

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
KRM 255	Criminology	10	A/E 2 lpw	-1	Qr 4
	fences 255				
The state a	as offender; crime dired	cted at the	state; formal and	l informal su	ppression; riots;
terrorism; a	ssassination; treason.				
	Criminology	15	A&E 2 lpw		Qr 1
Nature of h	<b>minology 351</b> uman behaviour; aggre ombings, arson, hostag		violence; mentally	disordered o	ffenders; sexual
	Criminology	15	A&E 2 lpw		Qr 3
Female cri	0,				
* Reauires	KRM 355				
	extent of female crime;	crimes co	mmitted by women	: theoretical	explanations.
	Criminology	15	A&E 2 lpw	,	Qr 2
	f crime 355		r		
	v of theories explaining	the causes	and different asp	ects of crime.	
	Criminology	15	A&E 2 lpw		Qr 4
crimes, org porary crim this attentic	ary crime phenomena anised crime, ecologica les (e.g. babies behind on is given to forensic re d restorative justice.	al crime as bars and	well as the proble HIV/AIDS) are ad	ems associat dressed. In	ed with contem- conjunction with
	Afrikaans	6	A&E 2 lpw	WebCT	Quarter 2
	on to language, culture			Weber	Quarter 2
	tion to the role of langua				
	Afrikaans	12	A&E 2 lpw	WebCT	Sem 1
-	ur en Kommunikasie				
	CC 153 Inl.tot mediagel		CC 254 Mediateks	te	
	ot mediageletterdheid				
representas kontemporé materiaal transformas soos dit vo daar gefok	de studie van eietyds sie en sosiale praktyk ère mediakultuur tans ' bied vir identiteitsvor sie. Aan die hand van 'i orkom in koerant-, tyds us op 'n kritiek van d bv. SABC, M-Net, News	e eerder n dominan ming in n genreger krif-, rolpre ie soiale l	as abstrakte teor te vorm van kultu terme van beid igte analise van v ent-, internet-, tele	ieë. Die uitg ur is wat on e sosiale erskillende tij visie- en rad	anspunt is dat s sosialiseer en reproduksie en bes mediatekste ioverband, word
LCC 120	A frikaans	12	A&E 2 lpw	WebCT	Sem 2
Taal, Kultu Ou mod.: L	ur en Kommunikasie [,] CC 151:Inleid.tot Taalst	udie+LCC	154:Inl.Kruiskult.K	ommunikasie	
Die aard v grammatika Die aard e kommunika betekenis; o verhouding	ot taal en kruiskulturel an taal en taalkennis; ateorie: fonetiek en fon n werking van die talig tiewe intensies, teksi die rol van sosio-kulture s en magsrelaies) ewe skemas, stereoties	grammatik ologie, mo je kommu nterpretasi le praktyke ; kruiski	astudie en taalge orfologie, sintaksis nikasieproses; fak e en tekskepping e (diskoersvoerings ulturele wankom	, leksikologie tore wat daa g, die onde	e en semantiek. rin 'n rol speel; rhandeling van interpersoonlike

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year			
LCC 111	Afrikaans	6	A&E 2 lpw	WebCT	1			
Taal, Kultuur en Kommunikasie 111 Ou mod.: LCC 152:Inleid.tot Taal, bedryf en kultuur								
	ur en bedrvf	<u>1</u>		,				
,	e sienings oor kultuur;	die verhou	uding tussen taal	en kultuur [,] k	ultuur en mag.			
	iterêre en korporatiev							
,	tenskap; literêre komm		,		,			
	/an kulturele kennis in v				anoolonning, alo			
	Afrikaans	10	A&E 2 lpw	WebCT	Qr 1			
-	of document design 1	-	Add 2 ipw	TTEBOT				
The design	and use of heuristics documents (paper and	for evaluation						
LCC 252	Afrikaans	10	A&E 2 lpw	WebCT	Qr 1			
	language 252	1	ľ	1	1			
politics of la and separa language sl	nship between language anguage; construction o tion; language and pow hift; language and the p	f language er; languag ublic doma	and identity; lang ge elaboration, mai in; language conta	uage and bor ntenance and ct and langua	nding; language d death/decline; age conflict.			
LCC 253	Afrikaans	10	A&E 2 lpw	WebCT	Qr 3			
	rary text studies 253 contemporary texts, wi	th referenc	e to inter alia ger	nder, ecologio	cal and political			
Media texts		10	AGE 2 IPW	WebCT	Q14			
	sed analysis of media t	exts with re	eference to newsp	apers, maga	zines, film, tele-			
LCC 255	Afrikaans	10	A&E 2 lpw	WebCT	Qr 2			
Approache	es in and to the media	255	· ·					
Critical app	roaches to the discours	e of the me	edia.					
LCC 256		10	A&E 2 lpw	WebCT	Qr 3			
word order languages.	on of the sound system system (syntax) of hu	man langu	ages, with special	reference to	South African			
LCC 257	Afrikaans	10	A&E 2 lpw	WebCT	Qr 4			
Grammar (	2) 257		•					
A description	on of linguistic meanir	ng (lexicolo	ogy and semantic	s) and conte	extual meaning			
•	s), with special reference	•	0,		5			
LCC 258	7 ·	10	A&E 2 lpw	WebCT	Qr 2			
	and development (1) 2	-						
The concept development	pt of language and de nt and use in the public nt; strategies of language	evelopment c domain; t	he South African					
LCC 321		30	A&E 2 lpw	WebCT	Qr 2			
	Culture and Commun				~~~~			
Writing for	the electronic media for creating effective tex			nternet.				

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
	Afrikaans	15	A&E 2 Ipw	WebCT	Qr 2
	design 351				
Persuasive	documents: The proce	ess of pers	suasion – a cogni	tive perspec	tive: classifying,
	and designing persuasiv				
Instructiona	al documents: Mental p	processes	playing a role in	following ar	nd remembering
verbal and	visual instructions; the	structure,	style and layout	of selected i	nstructional text
	manuals, forms, examir	ation pape	rs and patient info	rmation leafle	
LCC 352	Afrikaans	15	A&E 2 lpw	WebCT	Qr 1
	planning 352				
The nature	of language planning;	language s	stipulations of the	SA Constitut	ion; the national
language p	policy and its impleme	entation; th	ne sociolinguistic	character o	f SA; language
attitudes;	language promotion;	corpus,	status and acqu	isition plan	ning; language
manageme	nt (PANSALB), provinci	al and nati	onal language con	nmittee.	
LCC 353	Afrikaans	15	A&E 2 lpw	WebCT	Qr 3
Critical dis	course analysis 353				
Critical disc	course analysis as a so	ocially relev	vant theory of lang	guage in cor	text; the role of
language ir	n the construction of so	ocial relation	inships and social	identities (s	ubject positions,
types of se	If, etc.); the construction	n of knowle	edge systems and	social relation	onships between
individuals;	the elements of disc	ourse: text	, discursive even	t (productior	n, interpretation,
	) and social practice (e.g				
LCC 354		15	A&E 2 lpw	WebCT	Qr 4
Comparati	ve literary studies 354				
A compara	tive study of texts fron	n post-cold	nial literature, e.g	. from Africa	, the Americas,
	alia and Europe.		· · · · · · · · · · · · · · · · · · ·		, ,
LCC 355	Afrikaans	15	A&E 2 lpw	WebCT	Qr 1
Comparati	ve cultural and media	studies 35			
	tive study of cultural and			orld today.	
LCC 357		15	A&E 2 lpw	WebCŤ	Qr 2
Language	and development (2) 3	857			
	ots language and develo		d the interaction be	etween these	: multilingualism
	pment; an overview of				
	development: educatior				
LCC 358		15	A&E 1 dpw	WebCT	Qr 1/2/3/4
	nt research (1) 358				
•	ident research project:	students m	ake a choice from	the departm	ental focal areas
	tion with the head of the			and adparting	
LCC 359		15	A&E 1 dpw	WebCT	Qr 1/2/3/4
	nt research (2) 359	1.0			<b>.</b>
•	ident research project:	students m	ake a choice from	the departm	ental focal areas
	tion with the head of the			and departme	
LCC 321		30	A&E 2 lpw	WebCT	2
-	ur en Kommunikasie		nod.: LCC 356 Skr		
					lia
	ie elektroniese media			- +-le: dele	die internet
	vir die skep van effektie				
	Academic	6	A&E 2 lpw	E 2 Ipw	Quarter 3
	on to research 151				
* This mode	ule is only presented du e introduces the studen	•			

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
Various ap	proaches to research, p	oroblem-sol	ving strategies, inte	erpretation o	f results, critical
	d thinking skills, and				
	gathering, analysing				
	ion of scholarly efforts.	5 5	<b>J</b>		
SLK 110	Psychology	12	A&E 2 lpw		Sem 1
			1 dpw		•••••
Psycholog	v 110 SLK	( 151 + SLF			
	bry introduction module			A Sport Pava	hology) and BA
	ical perspectives	101 03003	ci (Fsychology and	I Spon Fsyc	lology) and BA
	le is a general orienta	ation to Do	vohology An intro	duction is a	iven te verieve
	approaches in Psychol				
	Selected themes from	om everyd	ay life are expl	ored and i	ntegrated with
	al principles.				
Health psy					
	le is an introduction				
	ich as the following a				
	ed illnesses, lifestyle				
· · ·	coping with emotiona		associated with	illness, and	psychological
	related to loss and deat	h.	a		P.
SLK 120	Psychology	12	A&E 2 lpw		Sem 2
			1 dpw		
Psycholog	y 120 SLK	( 152 + SLł	K 157		
* Compulso	bry introduction module			ort Psvcholo	av) & BA
Biological	basis of behaviour		( ) () ()		
This modul	e introduces the studen	t to a basic	knowledge and un	derstanding	of the biological
	uman behaviour. The				
	he biological subsyster				
	cation of the interrelated				
Cognitive			ioronic biological cy		boyotomo.
	dule, various cognitive	nrocesse	s are studied inc	ludina nerce	ntion memory
	telligence and creativit				
•	blem solving, critical, a		•		ang processes,
	Psychology	10	A&E 2 lpw	E 2 lpw	Quarter 1
Personolo		10	AGE 2 IPW		Quarter i
	57 -	ariaua tha	orion of normonality	, are studie.	including the
	lule on Personology, N			,	, 0
	ytical and social learn	•			
	c approach. An Africa				
	and critically evaluated				
	ophy of science, as			owards und	erstanding and
	numan behaviour within				• • •
	Psychology	10	A&E 2 lpw	E 2 lpw	Quarter 2
	elopment 252				
	dule human developm		conception to ado	lescence is	discussed with
reference to	o various psychological	theories.			
SLK 253	Psychology	10	A&E 2 lpw	E 2 lpw	Quarter 3
	ent Psychology 253	÷		• •	•
	ule, the areas and dete	erminants o	f early, middle and	late adulthoo	d development
	I. Incorporated are the				

emotional and social functioning of the individual and the context of work. Traditional ar contemporary theories of human development explaining and describing these stages a studied in order to address the key issues related to adulthood. SLK 254 Psychology 10 A&E 2 Ipw E 2 Ipw Quarter 4 Social Psychology 254 This module is a social-psychological perspective on interpersonal and group processe Themes that are covered include communication, pro-social behaviour, social influence ar persuasion, political transformation, violence, and group behaviour. SLK 351 Psychology 15 A&E 2 Ipw Quarter 1 Community Psychology 351 This module deals with a community psychological perspective on human behaviour ar psychological interventions. The module focuses on themes such as definitions of ke concepts, principles and aims of community psychology, and the role of the communit psychological problems are investigated from a cross-cultural perspective. SLK 352 Psychology 15 A&E 2 Ipw Quarter 3 Abnormal Behaviour 352 This module provides an introduction to psychopathology and symptomatology of adu abnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specifi mental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations. TRL 151 Translation (African 6 A/E 2 Ipw A/E ** 2 Quarter 3 Introduction to translation stills such as source text analysis, translation methods ar translation and basic translation stills such as source text analysis, translation text has translation in any two languages offered by the School of Languages, provided that th particular language combination can be accommodated during any given year. ** Flexilearning: Mode of presentation will be determined by student numbers. Equivalence in translation Still such as source text analysis, translation text has translation in any two languages offe	Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
studied in order to address the key issues related to adulthood. SLK 254 Psychology 10 A&E 2 lpw E 2 lpw Quarter 4 Social Psychology 254 This module is a social-psychological perspective on interpersonal and group processe Themes that are covered include communication, pro-social behaviour, social influence ar persuasion, political transformation, violence, and group behaviour. SLK 351 Psychology 351 This module deals with a community psychological perspective on human behaviour ar psychological interventions. The module focuses on themes such as definitions of ke concepts, principles and aims of community psychology, and the role of the communit psychologist. The application of these principles within the South African society, soci change and psychological problems are investigated from a cross-cultural perspective. SLK 352 Psychology 15 A&E 2 lpw E 2 lpw Quarter 3 Abnormal Behaviour 352 This module provides an introduction to psychopathology and symptomatology of adu abnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specif mental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations. TRL 151 Translation (African Languages) 16 A/E 2 lpw A/E ** 2 Quarter 3 lpw Introduction to translation 151 ** Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year. ** Flexilearning: Mode of presentation will be determined by student numbers. Translation and basic translation SUB Africa. Practical translations of a variety of texts - limited scope. TRL 251 Translation (African 10 A/E 2 lpw A/E ** 2 Quarter 2 lpw Equivalence in translation 251 ** Flexilearning: Mode of presentation will be determined by student numbers. Fractical translations. TRL 351 Translation (African 15 A/E 2 lpw A/E **	emotional a	and social functioning of	of the indiv	idual and the cont	ext of work.	Traditional and
SLK 254       Psychology       10       A&E 2 Ipw       E 2 Ipw       Quarter 4         Social Psychology 254       This module is a social-psychological perspective on interpersonal and group processe       Themes that are covered include communication, pro-social behaviour, social influence are persuasion, political transformation, violence, and group behaviour.       SLX 351       Psychology       15       A&E 2 Ipw       Quarter 1         Community Psychology 351       This module deals with a community psychological perspective on human behaviour ar psychologist. The application of these principles within the South African society, soci change and psychologial problems are investigated from a cross-cultural perspective.       SLK 352       Psychology       15       IA&E 2 Ipw       Quarter 3         Abnormal Behaviour 352       Psychology       15       IA&E 2 Ipw       Quarter 3         Abnormal Behaviour 352       This module provides an introduction to psychopathology and symptomatology of adu abnormal behaviour. are discussed. Neurosis as a specificantal disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations.         TRL 151       Translation (African 6       A/E 2 Ipw       A/E ** 2       Quarter 3         Introduction to translation skills such as source text analysis, translation methods ar translation aids. translation skills such as source text analysis, translation methods ar translation askills such as source text analysis, translation methods ar translation in any two languages offered by t	contempora	ary theories of human	developme	nt explaining and	describing th	ese stages are
Social Psychology 254         This module is a social-psychological perspective on interpersonal and group processes         Themes that are covered include communication, pro-social behaviour, social influence ar         persuasion, political transformation, violence, and group behaviour.         SLK 351       Psychology       15       [A&E 2 Ipw]       [E 2 Ipw]       Quarter 1         Community Psychology 351       This module deals with a community psychological perspective on human behaviour ar       psychological interventions. The module focuses on themes such as definitions of kc concepts, principles and aims of community psychology, and the role of the community psychology.         psychological interventions. The module focuses on themes such as definitions of kc concepts, principles within the South African society, soci change and psychological problems are investigated from a cross-cultural perspective.         SLK 352       Psychology       15       [A&E 2 Ipw]       Quarter 3         Abnormal Behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behavious.       TRI 151       Translation (African 6       [A/E 2 Ipw]       A/E ** 2       Quarter 3         Introduction to translation 151       "Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.       ***         *** Flexilearning: Mode of presentation will be determined by student numbers.       Translation (African 10 <td>studied in c</td> <td>order to address the key</td> <td>issues rela</td> <td>ated to adulthood.</td> <td>-</td> <td>-</td>	studied in c	order to address the key	issues rela	ated to adulthood.	-	-
This module is a social-psychological perspective on interpersonal and group processe         Themes that are covered include communication, pro-social behaviour, social influence are persuasion, political transformation, violence, and group behaviour.         SLK 351       Psychology       15       A&E 2 Ipw       Quarter 1         Community Psychology 351       This module deals with a community psychological perspective on human behaviour are psychological interventions. The module focuses on themes such as definitions of kc concepts, principles and aims of community psychology, and the role of the communi psychologist. The application of these principles within the South African society, soci change and psychological problems are investigated from a cross-cultural perspective.         SLK 352       Psychology       15       A&E 2 Ipw       Quarter 3         Abnormal Behaviour 352       This module provides an introduction to psychopathology and symptomatology of adt abnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specif mental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations.         TRL 151       Translation (African 6       A/E 2 Ipw       A/E ** 2       Quarter 3         Introduction to translation skills such as source text analysis, translation methods ar translation aids. Translation skills such as source text analysis, translation methods ar translation aids. Translation S21       Y/E 2 Ipw       A/E ** 2       Quarter 2					E 2 lpw	Quarter 4
This module is a social-psychological perspective on interpersonal and group processe         Themes that are covered include communication, pro-social behaviour, social influence are persuasion, political transformation, violence, and group behaviour.         SLK 351       Psychology       15       A&E 2 Ipw       Quarter 1         Community Psychology 351       This module deals with a community psychological perspective on human behaviour are psychological interventions. The module focuses on themes such as definitions of kc concepts, principles and aims of community psychology, and the role of the communi psychologist. The application of these principles within the South African society, soci change and psychological problems are investigated from a cross-cultural perspective.         SLK 352       Psychology       15       A&E 2 Ipw       Quarter 3         Abnormal Behaviour 352       This module provides an introduction to psychopathology and symptomatology of adt abnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specif mental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations.         TRL 151       Translation (African 6       A/E 2 Ipw       A/E ** 2       Quarter 3         Introduction to translation skills such as source text analysis, translation methods ar translation aids. Translation skills such as source text analysis, translation methods ar translation aids. Translation S21       Y/E 2 Ipw       A/E ** 2       Quarter 2	Social Psv	chology 254			•	
Themes that are covered include communication, pro-social behaviour, social influence ar persuasion, political transformation, violence, and group behaviour.       SLK 351       Psychology       15       A&E 2 Ipw       E 2 Ipw       Quarter 1         Community Psychology 351       This module deals with a community psychological perspective on human behaviour ar psychological interventions. The module focuses on themes such as definitions of ke concepts, principles and aims of community psychology, and the role of the community psychologist. The application of these principles within the South African society, soci change and psychological problems are investigated from a cross-cultural perspective.         SLK 352       Psychology       15       A&E 2 Ipw       Quarter 3         Abnormal Behaviour 352       This module provides an introduction to psychopathology and symptomatology of add abnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specific interpersonal and social-cultural explanations.         TRL 151       Translation (African 6       A/E 2 Ipw       A/E ** 2       Quarter 3         Indicular language combination can be accommodated during any given year.       ** Flexilearning: Mode of presentation will be determined by student numbers.       Translation rethods ar translation and basic translation skills such as source text analysis, translation methods ar translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         ** Flexilearning:			aical persp	ective on interpers	sonal and gr	oup processes
persuasion, political transformation, violence, and group behaviour.         SLK 351       Psychology       15       A&E 2 lpw       E 2 lpw       Quarter 1         Community Psychology 351       This module deals with a community psychological perspective on human behaviour ar psychological interventions. The module focuses on themes such as definitions of kc concepts, principles and aims of community psychology, and the role of the communi psychologist. The application of these principles within the South African society, soci change and psychological problems are investigated from a cross-cultural perspective.         SLK 352       Psychology       15       A&E 2 lpw       E 2 lpw       Quarter 3         Abnormal Behaviour 352       This module provides an introduction to psychopathology and symptomatology of adt abnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specific interpersonal and social-cultural explanations.         TRL 151       Translation (African 6       A/E 2 lpw       A/E ** 2       Quarter 3         Introduction to translation 151       "Translation and basic translation will be determined by student numbers. Translation methods as translation and basic translation in South Africa. Practical translations of a variety of texts initied scope.       A/E ** 2       Quarter 2         Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.       ** Flexilearning: Mode of presentation will be						
SLK 351     Psychology     15     A&E 2 Ipw     E 2 Ipw     Quarter 1       Community Psychology 351     This module deals with a community psychological perspective on human behaviour ar psychological interventions. The module focuses on themes such as definitions of ke concepts, principles and aims of community psychology, and the role of the communi psychologist. The application of these principles within the South African society, soci change and psychological problems are investigated from a cross-cultural perspective.     Such 2 Ipw     Quarter 3       Abnormal Behaviour 352     This module provides an introduction to psychopathology and symptomatology of add abnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specifimental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations.     Quarter 3       TRL 151     Translation (African 6     A/E 2 Ipw     A/E ** 2     Quarter 3       Introduction to translation 151     "Franslation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.     ** Flexilearning: Mode of presentation will be determined by student numbers.     Quarter 2       Imited scope.     Translation (African 10     A/E 2 Ipw     A/E ** 2     Quarter 2       Igw     Images)     Images offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.     ** Flexilearning: Mode of present	persuasion	political transformation	, violence.	and group behavio	ur.	
Community Psychology 351         This module deals with a community psychological perspective on human behaviour ar psychological interventions. The module focuses on themes such as definitions of ket concepts, principles and aims of community psychology, and the role of the communipsychologist. The application of these principles within the South African society, soci change and psychological problems are investigated from a cross-cultural perspective.         SLK 352       Psychology       15       A&E 2 lpw       E 2 lpw       Quarter 3         Abnormal Behaviour 352       This module provides an introduction to psychopathology and symptomatology of adu abnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specif intrapsychic, interpersonal and social-cultural explanations.         TRL 151       Translation (African 6       A/E 2 lpw       A/E ** 2       Quarter 3         Introduction to translation 151       *Translation and basic translation scan be accommodated during any given year.       Yee with the second of Languages, provided that the particular language combination can be accommodated during any given year.         Translation aids. Translation (African 10       A/E 2 lpw       A/E ** 2       Quarter 2         Imited scope.       Translation softered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         ** Flexilearning: Mode of presentation will be determined by student numbers.       Ipw       Quarter 2						Quarter 1
This module deals with a community psychological perspective on human behaviour ar psychological interventions. The module focuses on themes such as definitions of ke concepts, principles and aims of community psychology, and the role of the community psychologist. The application of these principles within the South African society, soci change and psychological problems are investigated from a cross-cultural perspective.         SLK 352       Psychology       15       A&E 2 lpw       E 2 lpw       Quarter 3         Abnormal Behaviour 352       This module provides an introduction to psychopathology and symptomatology of adu abnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specif mental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations.       TRL 151       Translation (African 6       A/E 2 lpw       A/E ** 2       Quarter 3         Introduction to translation 151       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.       ** Flexilearning: Mode of presentation will be determined by student numbers.       Translation in South Africa.       Practext 2       Quarter 2         TRL 251       Translation (African 10       A/E 2 lpw       A/E ** 2       Quarter 2         Imited scope.       Translation adbasic translation scills such as source text analysis, translation methods ar translation in any two languages offered by the School of Languages, provide					p.	
psychological interventions. The module focuses on themes such as definitions of ker concepts, principles and aims of community psychology, and the role of the communit psychologist. The application of these principles within the South African society, soci change and psychological problems are investigated from a cross-cultural perspective. SLK 352 Psychology 15 A&E 2 Ipw E 2 Ipw Quarter 3 Abnormal Behaviour 352 This module provides an introduction to psychopathology and symptomatology of adu abnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specif mental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations. TRL 151 Translation (African 6 A/E 2 Ipw A/E ** 2 Quarter 3 Languages) Introduction to translation 151 *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year. ** Flexilearning: Mode of presentation will be determined by student numbers. Translation aids. Translation (African 10 A/E 2 Ipw A/E ** 2 Quarter 2 Impw Quarter 2 Impw Quarter 2 Impw Quarter 2 Ipw A/E ** 2 Quarter 2 Ipw Quarter 4 Introlutions of a variety of texts. Practical translation as 1 ** Flexilearning: Mode of presentation will be determined by student numbers. Equivalence at word level and above word level. Equivalence at text level. Problems is equivalence at word level and above word level. Equivalence at text level. Problems is equivalence at avarety of texts. Practical translations. TRL 351 Translation (African 15 A/E 2 Ipw A/E ** 2 Quarter 4 Languages) Intercultural translation 351 */Requires TRL 251.			nitv psych	ological perspectiv	e on human	behaviour and
concepts, principles and aims of community psychology, and the role of the communi psychologist. The application of these principles within the South African society, soci change and psychological problems are investigated from a cross-cultural perspective. SLK 352 Psychology 15 A&E 2 lpw Quarter 3 Abnormal Behaviour 352 This module provides an introduction to psychopathology and symptomatology of adu abnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specif mental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations. TRL 151 Translation (African 6 A/E 2 lpw A/E ** 2 Quarter 3 languages) lintroduction to translation 151 *Translation in any two languages offered by the School of Languages, provided that th particular language combination can be accommodated during any given year. ** Flexilearning: Mode of presentation will be determined by student numbers. Translation and basic translation skills such as source text analysis, translation methods ar translation aids. Translation (African 10 A/E 2 lpw A/E ** 2 Quarter 2 limited scope. TRL 251 Translation (African 10 A/E 2 lpw A/E ** 2 Quarter 2 lipw Quarter 2 lpw Equivalence in translation 251 ** Flexilearning: Mode of presentation will be determined by student numbers. Equivalence at word level and above word level. Equivalence at text level. Problems is equivalence at word level and above word level. Equivalence at text level. Problems is equivalence in a variety of texts. Practical translations. TRL 151 Translation (African 15 A/E 2 lpw A/E ** 2 Quarter 4 languages) lintercultural translation 351 *Requires TRL 251.	nsvchologi	al interventions The	module for	cuses on themes	such as de	finitions of key
psychologist. The application of these principles within the South African society, soci change and psychological problems are investigated from a cross-cultural perspective. SLK 352 Psychology 15 A&E 2 Ipw E 2 Ipw Quarter 3 Abnormal Behaviour 352 This module provides an introduction to psychopathology and symptomatology of adu abnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specifi mental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations. TRL 151 Translation (African 6 A/E 2 Ipw A/E ** 2 Quarter 3 Languages) Introduction to translation 151 *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year. ** Flexilearning: Mode of presentation will be determined by student numbers. Translation and basic translation skills such as source text analysis, translation methods are translation aids. Translation (African 10 A/E 2 Ipw A/E ** 2 Quarter 2 Introduction in any two languages offered by the School of Languages, provided that the particular language) Intraslation 251 *Requires TRL 151. *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year. ** Flexilearning: Mode of presentation will be determined by student numbers. Equivalence in translation 251 *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year. ** Flexilearning: Mode of presentation will be determined by student numbers. Equivalence at word level and above word level. Equivalence at text level. Problems are equivalence in a variety of texts. Practical translations. TRL 351 Translation (African 15 A/E 2 Ipw A/E ** 2	concents i	principles and aims of	community	/ nsvchology and	the role of	the community
Change and psychological problems are investigated from a cross-cultural perspective.         SLK 352       Psychology       15       A&E 2 Ipw       E 2 Ipw       Quarter 3         Abnormal Behaviour 352       This module provides an introduction to psychopathology and symptomatology of adu abnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specific mental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations.         TRL 151       Translation (African Languages)       6       A/E 2 Ipw       A/E ** 2       Quarter 3         Introduction to translation 151       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.       ** Flexilearning: Mode of presentation will be determined by student numbers.         Translation and basic translation is South Africa. Practical translations of a variety of texts of translation in any two languages offered by the School of Languages, provided that the particular languages)         Equivalence in translation 251       *Translation (African 10       A/E ** 2       Quarter 2         Ipw       Ipw       Quarter 2       Ipw         Equivalence in translation 251       *Requires TRL 151.       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any g						
SLK 352       Psychology       15       A&E 2 lpw       E 2 lpw       Quarter 3         Abnormal Behaviour 352       This module provides an introduction to psychopathology and symptomatology of adu abnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specif mental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations.       Translation (African 6       A/E 2 lpw       A/E ** 2       Quarter 3         Introduction to translation 151       Translation (African 6       A/E 2 lpw       A/E ** 2       Quarter 3         Introduction to translation skills such as source text analysis, translation methods ar translation aids. Translation in South Africa. Practical translations of a variety of texts limited scope.       Quarter 10       A/E ** 2       Quarter 2         Equivalence in translation 251       *Requires TRL 151.       Translation (African 10       A/E 2 lpw       A/E ** 2       Quarter 2         Equivalence in translation 251       *Requires TRL 151.       Translation in any two languages offered by the School of Languages, provided that the particular languages)         Equivalence in translation 251       Translation (African 10       A/E 2 lpw       A/E ** 2       Quarter 2         Ipw       Equivalence at word level and above word level. Equivalence at text level. Problems requivalence at avariety of texts.       Ipw       Q						
Abnormal Behaviour 352         This module provides an introduction to psychopathology and symptomatology of aduatormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specific mental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations.         TRL 151       Translation (African 6       A/E 2 lpw       A/E ** 2       Quarter 3         Introduction to translation 151       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         ** Flexilearning: Mode of presentation will be determined by student numbers.         Translation and basic translation skills such as source text analysis, translation methods ar translation aids. Translation in South Africa. Practical translations of a variety of texts limited scope.         TRL 251       Translation (African 10       A/E 2 lpw       A/E ** 2       Quarter 2         Ipw       Ipw       Ipw       Quarter 2         Equivalence in translation 251       *Requires TRL 151.       Translation (African 10       A/E 2 lpw       A/E ** 2       Quarter 2         Ipw       Equivalence at word level and above word level. Equivalence at text level. Problems equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts.       Practical translations.         *Translation	-		1			
This module provides an introduction to psychopathology and symptomatology of aduabnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi         Iabelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specifimental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations.         TRL 151       Translation (African 6       A/E 2 lpw       A/E ** 2       Quarter 3         Introduction to translation 151       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.       *** Flexilearning: Mode of presentation will be determined by student numbers.         TRL 251       Translation (African 10       A/E 2 lpw       A/E ** 2       Quarter 2         Imited scope.       Translation and basic translation skills such as source text analysis, translation methods ar translation aids. Translation 251       *Requires TRL 151.       Translation (African 10       A/E 2 lpw       A/E ** 2       Quarter 2         Equivalence in translation 251       *Requires TRL 151.       Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         ** Flexilearning: Mode of presentation will be determined by student numbers.       Equivalence in translation 251         *Requires TRL 151.       *Translation in any two languages offered by the School of Languages, provided that the par			15	AGE 2 IPW		Quarter 5
abnormal behaviour. Terminology, definitions of abnormal behaviour, problems in diagnosi         labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specifimental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations.         TRL 151       Translation (African languages)       6       A/E 2 lpw       A/E ** 2       Quarter 3         Introduction to translation 151       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.       ***         *** Flexilearning: Mode of presentation will be determined by student numbers.       Translation aids. Translation in South Africa. Practical translations of a variety of texts of limited scope.         TRL 251       Translation (African languages offered by the School of Languages, provided that the particular languages)         Equivalence in translation 251       ** requires TRL 151.         *Translation in any two languages offered by the School of Languages, provided that the particular languages offered by the School of Languages, provided that the particular languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         *** Flexilearning: Mode of presentation will be determined by student numbers.         *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         *** Flexilearning: Mod			ation to n	wahanathalaay an	d overntored	tology of odul
labelling, and myths regarding abnormal behaviour are discussed. Neurosis as a specifimental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations.         TRL 151       Translation (African 6       A/E 2 lpw       A/E ** 2       Quarter 3         Introduction to translation 151       **       **       Quarter 3       Ipw       Quarter 4         Particular languages       for any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.       ***         *** Flexilearning: Mode of presentation will be determined by student numbers.       Translation aids. Translation in South Africa. Practical translations of a variety of texts of imited scope.       Quarter 2         TRL 251       Translation (African 10       A/E ** 2       Quarter 2         Imvelore in translation 251       *Requires TRL 151.       *         *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.       *         *** Flexilearning: Mode of presentation will be determined by student numbers.           *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.          *** Flexilearning: Mode of presentation will be determined by student numbers.		•				
mental disorder is studied critically from a multi-dimensional perspective, includir intrapsychic, interpersonal and social-cultural explanations.         TRL 151       Translation (African Languages)       6       A/E 2 lpw       A/E ** 2 lpw       Quarter 3         Introduction to translation 151       *       *       Translation (African particular language combination can be accommodated during any given year.       *         *** Flexilearning: Mode of presentation will be determined by student numbers.       Translation aids. Translation in South Africa. Practical translations of a variety of texts of limited scope.       A/E ** 2 lpw       Quarter 2 lpw         Equivalence in translation 251       *       *       *       *         *Translation in any two languages offered by the School of Languages, provided that the particular languages)       A/E ** 2 lpw       Quarter 2 lpw         Equivalence in translation 251       *       *       *       Quarter 2 lpw         *       Translation i any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.       *         *** Flexilearning: Mode of presentation will be determined by student numbers.           *       Translation for an be accommodated during any given year.       *         *** Flexilearning: Mode of presentation will be determined by student numbers.          Equivalence at word						
Intrapsychic, interpersonal and social-cultural explanations.       A/E ** 2       Quarter 3         TRL 151       Translation (African Languages)       6       A/E 2 lpw       A/E ** 2       Quarter 3         Introduction to translation 151       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.       ***         ** Flexilearning: Mode of presentation will be determined by student numbers.       Translation aids. Translation is South Africa. Practical translations of a variety of texts of limited scope.       Quarter 2         TRL 251       Translation (African 10       A/E 2 lpw       A/E ** 2       Quarter 2         Imited scope.       Translation (African 10       A/E 2 lpw       A/E ** 2       Quarter 2         Equivalence in translation 251       *Requires TRL 151.       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         *** Flexilearning: Mode of presentation will be determined by student numbers.       Equivalence in translation can be accommodated during any given year.         *** Flexilearning: Mode of presentation will be determined by student numbers.       Equivalence in a variety of texts.         Practical ranguage combination can be accommodated during any given year.       *** Flexilearning: Mode of presentation will be determined by student numbers.         Equivalen						
TRL 151       Translation (African Languages)       6       A/E 2 lpw       A/E ** 2 lpw       Quarter 3         Introduction to translation 151       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.       ***       ***       Flexilearning: Mode of presentation will be determined by student numbers.         Translation and basic translation is South Africa.       Practical translations of a variety of texts of texts analysis, translation methods are translation aids.       Translation (African Practical translations of a variety of texts of texts of texts analysis)       A/E ** 2       Quarter 2         Imited scope.       Translation (African 10       A/E 2 lpw       A/E ** 2       Quarter 2         Equivalence in translation 251       *Requires TRL 151.       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.       *** Flexilearning: Mode of presentation will be determined by student numbers.       Equivalence in translation can be accommodated during any given year.         *** Flexilearning: Mode of presentation will be determined by student numbers.       Equivalence in a variety of texts.       Practical translations.         TRL 351       Translation (African 15       A/E 2 lpw       A/E ** 2       Quarter 4         Ipw       Ipw       Ipw       Ipw       Ipw       Ipw       Ipw <td></td> <td></td> <td></td> <td></td> <td>onal perspe</td> <td>ctive, including</td>					onal perspe	ctive, including
Languages)       Ipw         Introduction to translation 151       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         *** Flexilearning: Mode of presentation will be determined by student numbers.         Translation and basic translation skills such as source text analysis, translation methods are translation aids. Translation in South Africa. Practical translations of a variety of texts in translation (African 10 A/E 2 lpw A/E ** 2 Quarter 2 Languages)         TRL 251       Translation (African 10 A/E 2 lpw A/E ** 2 Quarter 2 Languages)         Equivalence in translation 251         *Requires TRL 151.         *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         *** Flexilearning: Mode of presentation will be determined by student numbers.         Equivalence in translation can be accommodated during any given year.         *** Flexilearning: Mode of presentation will be determined by student numbers.         Equivalence in a variety of texts.         Practical translations.         TRL 351       Translation (African 15 A/E 2 lpw A/E ** 2 Quarter 4 Languages)         Intercultural translations.       15 A/E 2 lpw A/E ** 2 Quarter 4 Languages)         Intercultural translation 351         *Requires TRL 251.					1	1
Introduction to translation 151         *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         *** Flexilearning: Mode of presentation will be determined by student numbers.         Translation and basic translation skills such as source text analysis, translation methods are translation aids. Translation in South Africa. Practical translations of a variety of texts limited scope.         TRL 251       Translation (African 10       A/E 2 lpw       A/E ** 2 lpw       Quarter 2 lpw         Equivalence in translation 251       *Requires TRL 151.       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         *** Flexilearning: Mode of presentation will be determined by student numbers.         Equivalence in translation 251         *Requires TRL 151.         *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         *** Flexilearning: Mode of presentation will be determined by student numbers.         Equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts.         Practical translations.         TRL 351       Translation (African 15         A/E ** 2       Quarter 4         Languages)       Ipw <t< td=""><td>TRL 151</td><td></td><td>6</td><td>A/E 2 lpw</td><td>A/E ** 2</td><td>Quarter 3</td></t<>	TRL 151		6	A/E 2 lpw	A/E ** 2	Quarter 3
*Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year. ** Flexilearning: Mode of presentation will be determined by student numbers. Translation and basic translation skills such as source text analysis, translation methods and translation aids. Translation in South Africa. Practical translations of a variety of texts is limited scope. TRL 251 Translation (African 10 A/E 2 lpw A/E ** 2 Quarter 2 lpw Equivalence in translation 251 *Requires TRL 151. *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year. ** Flexilearning: Mode of presentation will be determined by student numbers. Equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts. Practical translation (African 15 A/E 2 lpw A/E ** 2 Quarter 4 Languages) Intercultural translation 351 *Requires TRL 251.					lpw	
particular language combination can be accommodated during any given year.         *** Flexilearning: Mode of presentation will be determined by student numbers.         Translation and basic translation skills such as source text analysis, translation methods ar translation aids. Translation in South Africa. Practical translations of a variety of texts of limited scope.         TRL 251       Translation (African 10       A/E 2 lpw       A/E ** 2       Quarter 2         Languages)       Languages)       Ipw       A/E ** 2       Quarter 2         Equivalence in translation 251       *Requires TRL 151.       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         ** Flexilearning: Mode of presentation will be determined by student numbers.         Equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts.         Practical translation (African 15       A/E 2 lpw       A/E ** 2       Quarter 4         Languages)       Intercultural translation 351         TRL 351       Translation (African 15       A/E 2 lpw       A/E ** 2       Quarter 4         Languages)       Ipw       Ipw       Ipw       Ipw	Introductio	on to translation 151				
** Flexilearning: Mode of presentation will be determined by student numbers.         Translation and basic translation skills such as source text analysis, translation methods ar translation aids. Translation in South Africa. Practical translations of a variety of texts of limited scope.         TRL 251       Translation (African logges)       10       A/E 2 lpw       A/E ** 2 logges)       Quarter 2 logges         Equivalence in translation 251       *Requires TRL 151.       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         ** Flexilearning: Mode of presentation will be determined by student numbers.         Equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts.         Practical translation (African 15       A/E 2 lpw         TRL 351       Translation (African 15         TRL 351       Translation (African 15         Intercultural translation 351         *Requires TRL 251.	*Translatio	ו in any two language:	s offered b	y the School of La	anguages, pi	ovided that the
Translation and basic translation skills such as source text analysis, translation methods ar translation aids. Translation in South Africa. Practical translations of a variety of texts limited scope.         TRL 251       Translation (African Languages)       10       A/E 2 lpw       A/E ** 2 lpw       Quarter 2 lpw         Equivalence in translation 251       *Requires TRL 151.       Translation can be accommodated during any given year.       ** Flexilearning: Mode of presentation will be determined by student numbers.       Equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts.         Translations.       Translation (African 15       A/E 2 lpw       A/E ** 2       Quarter 2         Image: Combination can be accommodated during any given year.       ** Flexilearning: Mode of presentation will be determined by student numbers.       Equivalence at word level and above word level. Equivalence at text level. Problems of equivalence in a variety of texts.         Practical translations.       Translation (African 15       A/E 2 lpw       A/E ** 2       Quarter 4         Intercultural translation 351       *Requires TRL 251.       Ipw       Ipw	particular la	anguage combination ca	an be accor	nmodated during a	ny given yea	r.
translation aids. Translation in South Africa. Practical translations of a variety of texts limited scope.           TRL 251         Translation (African Languages)         10         A/E 2 lpw         A/E ** 2 lpw         Quarter 2 lpw           Equivalence in translation 251         *Requires TRL 151.         *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         ** Flexilearning: Mode of presentation will be determined by student numbers.           Equivalence in a variety of texts.         Practical translations.         TRL 351         Translation (African 15         A/E 2 lpw         A/E ** 2         Quarter 4           Induction and the addition of the second of texts.         Image: text and text	** Flexilean	ning: Mode of presentat	ion will be	determined by stud	lent numbers	
Itimited scope.       Translation (African Languages)       10       A/E 2 lpw       A/E ** 2 lpw       Quarter 2 lpw         Equivalence in translation 251       *Requires TRL 151.       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         ** Flexilearning: Mode of presentation will be determined by student numbers.         Equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts.         Practical translations.         TRL 351       Translation (African 15 A/E 2 lpw A/E ** 2 lpw         N/E ** 2 lpw       A/E ** 2 lpw         Intercultural translation 351         *Requires TRL 251.	Translation	and basic translation s	kills such a	s source text analy	sis, translatio	on methods and
TRL 251       Translation (African Languages)       10       A/E 2 lpw       A/E ** 2 lpw       Quarter 2         Equivalence in translation 251       *Requires TRL 151.       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.       *** Flexilearning: Mode of presentation will be determined by student numbers.         Equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts.       Practical translations.         TRL 351       Translation (African 15       A/E 2 lpw       A/E ** 2       Quarter 4         Languages)       Intercultural translation 351       *Requires TRL 251.       **	translation	aids. Translation in Sc	outh Africa.	Practical translat	ons of a va	riety of texts o
TRL 251       Translation (African Languages)       10       A/E 2 lpw       A/E ** 2 lpw       Quarter 2         Equivalence in translation 251       *Requires TRL 151.       *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.       *** Flexilearning: Mode of presentation will be determined by student numbers.         Equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts.       Practical translations.         TRL 351       Translation (African 15       A/E 2 lpw       A/E ** 2       Quarter 4         Languages)       Intercultural translation 351       *Requires TRL 251.       **						··· <b>,</b> · ·····
Languages)       Ipw         Equivalence in translation 251       *Requires TRL 151.         *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         ** Flexilearning: Mode of presentation will be determined by student numbers.         Equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts.         Practical translations.         TRL 351       Translation (African 15         A/E 2 lpw       A/E ** 2         Languages)         Intercultural translation 351         *Requires TRL 251.			10	A/F 2 Inw	Δ/F ** 2	Quarter 2
Equivalence in translation 251         *Requires TRL 151.         *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year.         *** Flexilearning: Mode of presentation will be determined by student numbers.         Equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts.         Practical translations.         TRL 351       Translation (African 15 A/E 2 lpw A/E ** 2 Quarter 4 Languages)         Intercultural translation 351         *Requires TRL 251.						quarter 1
*Requires TRL 151. *Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year. ** Flexilearning: Mode of presentation will be determined by student numbers. Equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts. Practical translations. TRL 351 Translation (African 15 A/E 2 lpw A/E ** 2 Quarter 4 Languages) Intercultural translation 351 *Requires TRL 251.	Equivalon				ipn	
*Translation in any two languages offered by the School of Languages, provided that the particular language combination can be accommodated during any given year. ** Flexilearning: Mode of presentation will be determined by student numbers. Equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts. Practical translations. TRL 351 Translation (African 15 A/E 2 lpw A/E ** 2 Quarter 4 Languages) Intercultural translation 351 *Requires TRL 251.						
particular language combination can be accommodated during any given year. ** Flexilearning: Mode of presentation will be determined by student numbers. Equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts. Practical translations. TRL 351 Translation (African 15 A/E 2 lpw A/E ** 2 Quarter 4 Languages) Intercultural translation 351 *Requires TRL 251.			offered b	, the School of L		avidad that the
*** Flexilearning: Mode of presentation will be determined by student numbers.         Equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts.         Practical translations.         TRL 351       Translation (African 15 A/E 2 lpw A/E ** 2 Quarter 4 Languages)         Intercultural translation 351         *Requires TRL 251.	*Tranalation					
Equivalence at word level and above word level. Equivalence at text level. Problems equivalence in a variety of texts.       Practical translations.         TRL 351       Translation (African Languages)       15       A/E 2 lpw       A/E ** 2       Quarter 4         Intercultural translation 351       *Requires TRL 251.       15       15       16       16		naviore combination of		nnooaleo ounno a	riv diveri vea	1.
equivalence in a variety of texts. Practical translations. TRL 351 Translation (African 15 A/E 2 lpw A/E ** 2 Quarter 4 Languages) Intercultural translation 351 *Requires TRL 251.	particular la					
Practical translations.     TRL 351     Translation (African 15     A/E 2 lpw     A/E ** 2     Quarter 4       Languages)     Intercultural translation 351       *Requires TRL 251.	particular la ** Flexilear	ning: Mode of presentat	ion will be	determined by stud	lent numbers	
TRL 351     Translation (African Languages)     15     A/E 2 lpw     A/E ** 2 lpw     Quarter 4 lpw       Intercultural translation 351     *Requires TRL 251.     *     *	<i>particular la</i> ** <i>Flexilear</i> Equivalenc	ning: Mode of presentat e at word level and al	ion will be	determined by stud	lent numbers	
Languages)     Ipw       Intercultural translation 351     *Requires TRL 251.	particular la ** Flexilear Equivalence equivalence	ning: Mode of presentat e at word level and al e in a variety of texts.	ion will be	determined by stud	lent numbers	
Intercultural translation 351 *Requires TRL 251.	particular la ** Flexilean Equivalence equivalence Practical tra	ning: Mode of presentat e at word level and al e in a variety of texts. anslations.	tion will be bove word	determined by stud level. Equivalence	lent numbers e at text leve	el. Problems o
*Requires TRL 251.	particular la ** Flexilear Equivalence equivalence	ning: Mode of presentat e at word level and al e in a variety of texts. anslations.	tion will be bove word	determined by stud level. Equivalence	lent numbers e at text leve	el. Problems o
	particular la ** Flexilean Equivalence equivalence Practical tra	ning: Mode of presentat e at word level and al e in a variety of texts. anslations. Translation (African	tion will be bove word	determined by stud level. Equivalence	ent numbers at text leve A/E ** 2	el. Problems o
*Translation in any twe languages offered by the School of Languages, provided that th	particular la ** Flexilear Equivalence equivalence Practical tra TRL 351	ning: Mode of presentat e at word level and al e in a variety of texts. anslations. Translation (African Languages)	tion will be bove word	determined by stud level. Equivalence	ent numbers at text leve A/E ** 2	el. Problems o
	particular la ** Flexilean Equivalence equivalence Practical tra TRL 351 Intercultur	ning: Mode of presentat e at word level and al e in a variety of texts. anslations. Translation (African Languages) al translation 351	tion will be bove word	determined by stud level. Equivalence	ent numbers at text leve A/E ** 2	el. Problems c
particular language combination can be accommodated during any given year.	particular la ** Flexilean Equivalence equivalence Practical tra TRL 351 Intercultur *Requires	ning: Mode of presentat e at word level and al e in a variety of texts. anslations. Translation (African Languages) al translation 351 TRL 251.	tion will be bove word 15	determined by stud level. Equivalence A/E 2 Ipw	A/E ** 2 A/E ** 2	el. Problems o

** Flexilearning: Mode of presentation will be determined by student numbers.

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
Translation South Afric	and language variet of culture-bound texts. a. anslations of a variety of	Translatio	n in a multilingual	0.	
TRL 352	Translation (ULD)	15	A/E 2 lpw	A/E ** 2	Quarter 3
	· · ·		•	lpw	
*Requires T *Translation particular la	Inslation 352 IRL 251. In in any two languages Inguage combination ca Ining: Mode of presentat	n be accor	, mmodated during a	ny given yea	r.
Theories of translation The source offered by t	ining: Mode of presentat of and strategies for (prose and poetry). e and target languages the School of Language loodated during any give	literary tra are chose es, provide	nslation; study of en by the student	translated from any of	texts; practical the languages
VIO 102	Visual Arts	24	1 lpw + 1 bpw + 1 ppw		Year
* Only for s Introduction Application VIO 202 Visual des * Only for s Visual anal	tudents who specialize system structures who specialize systems and interpretation.	in BIS Mult ples of des techniques <b>40</b> in BIS Mult Design fun	imedia. ign, typography and <u>s. Media characteri</u> <b>1 lpw + 1 bpw +</b> <b>1 ppw</b> <i>imedia.</i> intection and specific a	stics. The de	Year
	nt. Aesthetic, functional			n of design.	0
-	Visual Arts	12	A/E 3 lpw		Sem 1
Introduction moving ima and modes Investigatio of cultural	on to Visual Culture 11 n to visual culture stuc- igges in diverse media ( s of analysis in visual n of the relationship be icons such as the here to figures such as Barbi s.	lies; study e.g. advert culture (e tween pop o in relation	ising, music video) .g. formalism, fem ular culture and the on to cultural cod	ent and aim . Introductior inism, Marxi e mass-media es, stereotyp	s of static and to terminology sm, semiotics). a. Interpretation bes and myths.
	Visual Arts	12	A/E 3 lpw		Sem 2
Exploration modern, te photograph art and ad Theorises Positions tl	hy and the moving im of the static and movi echnocratic world pive y and film. Examines pivertising (photo journa the relationship betwee he photographic and fi udrillard and Mulvey.	ng photogr ots. Trace hotography lism, Mode een film,	VKK I58 The photo aphic image as th s the history an as: erotica/pornog ernist photography, digit	e centre poin d ideologica graphy, polition and fashion tal media a	al evolution of cal propaganda, n photography). nd advertising.

Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester		
l				_	Year		
	Visual Arts	10	A/E 2 Ipw		Qr 2		
	eology in visual cultur						
	n to gender as an ideo						
	<ul> <li>Interpretation of ima</li> </ul>	ges from th	ne mass-media and	art in terms	s of themes and		
U	ender theory.		1	1			
	Visual Arts	10	A/E 2 lpw		Qr 1		
History of							
	approach to history of				sent. Reciprocal		
	etween art movements,			n century.			
	Visual Arts	10	A/E 2 lpw		Qr 4		
	ntity and branding 258			un a ul cation a			
	and functions of vis						
	ation as foundation for vertising and promotior						
	identity. Influence of						
communica	,	larger at	ulence and medi	a characteri	SUCS OIT VISUAI		
	Visual Arts	10	A/E 2 lpw		Qr 3		
	ge and communication	-			QI J		
	le considers how type		function senarate	v and in uni	ison to facilitate		
	ate the communicatio						
	Particular emphasis i						
presentation of scientific data, way-finding systems and public information.							
VKK 352	Visual Arts				Or 1		
VKK 352 Visual ima	Visual Arts	15	A/E 2 Ipw		Qr 1		
Visual ima	ge and ideology 352	15	A/E 2 Ipw		1		
Visual ima Investigatio	ge and ideology 352 on at more advanced	15 level of the	A/E 2 Ipw	ks that can	be used in the		
Visual ima Investigatio interpretatio	ge and ideology 352 on at more advanced l on, analysis and evalu	15 level of the ation of vis	A/E 2 Ipw eoretical frameworl sual culture. Influer	ks that can	be used in the ods of analysis,		
Visual ima Investigatio interpretatio such as I	ge and ideology 352 on at more advanced l on, analysis and evalu Post-structuralism, Ma	15 level of the ation of vis rxism, and	A/E 2 Ipw eoretical frameworl sual culture. Influer d Feminism, is e	ks that can nce of metho explained in	be used in the ods of analysis, terms of the		
Visual ima Investigatio interpretatio such as I interpretatio	ge and ideology 352 on at more advanced l on, analysis and evalu Post-structuralism, Ma on of contemporary	15 level of the ation of vis rxism, and visual cu	A/E 2 Ipw eoretical frameworl sual culture. Influer d Feminism, is e ilture. Ideologies	ks that can nce of metho explained in as embodi	be used in the ods of analysis, terms of the ed in cultural		
Visual ima Investigatio interpretatio such as I interpretatio	ge and ideology 352 on at more advanced l on, analysis and evalu Post-structuralism, Ma	15 level of the ation of vis rxism, and visual cu	A/E 2 Ipw eoretical frameworl sual culture. Influer d Feminism, is e ilture. Ideologies	ks that can nce of metho explained in as embodi	be used in the ods of analysis, terms of the ed in cultural		
Visual ima Investigatio interpretatio such as I interpretatio expression	ge and ideology 352 on at more advanced l on, analysis and evalu Post-structuralism, Ma on of contemporary	15 level of the ation of vis rxism, and visual cu	A/E 2 Ipw eoretical frameworl sual culture. Influer d Feminism, is e ilture. Ideologies	ks that can nce of metho explained in as embodi	be used in the ods of analysis, terms of the ed in cultural		
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Module- code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
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	vironments of use are ts of user research and		hrough the consid	deration of the	eoretical models

## IT.31.5 THE FOLLOWING MODULES FALL UNDER THE FACULTY OF NATURAL AND AGRICULTURAL SCIENCES

GGY 132Geography4A/E 1 lpwSem 1Cartographic Skills 132Principles of cartography. Map reading, analysis and interpretation; introductory surv techniques.Prerequisite: [IT.2]GGY 153Geography6A&E 4 lpwQuarter 2Geography of Cities 153An introduction to the forms and functions of cities from ancient times to the 17th Centu as a basis for understanding early South African towns. The essence of the segregated a apartheid forms of the modern South African city.Prerequisite: [IT.2]GGY 154Geography6A&E 4 lpwQuarter 2Geography of Tourism 154Geography of tourism: conceptualisation; basic elements; classification; international a South African context; ecotourism: resources; urban tourism.Prerequisite: [IT.2]GGY 155Geography6E 4 lpwQuarter 1Human Geography of SADC 155Foundations for understanding contemporary human geographic processes in South Africa.Gentra including those associated with the formation of SADC.GGY 162Geography4A&E 1 ppwSem 2Remote Sensing 162Use, interpretation and analysis of satellite imagery, aerial photography and other remote sensed data.Ferequisite: [IT.2]GGY 163Geography6A&E 4 lpwQuarter 3Biogeography of SA 163Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecologic elements; resource utilisation, management and mismanagement in South Africa.	code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
Principles       of cartography. Map reading, analysis and interpretation; introductory survitechniques.         Prerequisite: [IT.2]       GGY 153       Geography       6       A&E 4 lpw       Quarter 2         Geography of Cities 153       An introduction to the forms and functions of cities from ancient times to the 17th Centu as a basis for understanding early South African towns. The essence of the segregated a apartheid forms of the modern South African city.       Prerequisite: [IT.2]         GGY 154       Geography       6       A&E 4 lpw       Quarter 2         Geography of Tourism of the modern South African city.       Prerequisite: [IT.2]       Geography of Tourism 154         Geography of tourism: conceptualisation; basic elements; classification; international a South African context; ecotourism: resources; urban tourism.       Quarter 1         Human Geography of SADC 155       Foundations for understanding contemporary human geographic processes in Southe Africa.         The module will trace the major changes in the economic, political and populati geography of Southern Africa including those associated with the formation of SADC.         GGY 162       Geography       4       A&E 1 ppw       Sem 2         Remote Sensing 162       Use, interpretation and analysis of satellite imagery, aerial photography and other remote sensed data.       Prerequisite: [IT.2]         GGY 163       Geography       6       A&E 4 lpw       Quarter 3         Biogeography of S			4	A/E 1 lpw		Sem 1
techniques.       Prerequisite: [IT.2]         GGY 153       Geography of Cities 153         An introduction to the forms and functions of cities from ancient times to the 17th Centu as a basis for understanding early South African towns. The essence of the segregated a apartheid forms of the modern South African city.         Prerequisite:       [IT.2]         GGY 154       Geography         Geography of Tourism 154       Geography of Tourism: conceptualisation; basic elements; classification; international a South African context; ecotourism: resources; urban tourism.         Prerequisite:       [IT.2]         GGY 155       Geography of SADC 155         Foundations for understanding contemporary human geographic processes in Southe Africa.         The module will trace the major changes in the economic, political and populati geography of Southern Africa including those associated with the formation of SADC.         GGY 162       Geography         GGY 163       Geography         GGY 162       Geography         geography of Southern Africa including those associated with the formation of SADC.         GGY 162       Geography         geography of SA 163         Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecological						
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Geography of Tourism 154         Geography of tourism: conceptualisation; basic elements; classification; international a South African context; ecotourism: resources; urban tourism.         Prerequisite: [IT.2]         GGY 155       Geography       6       E 4 lpw       Quarter 1         Human Geography of SADC 155         Foundations for understanding contemporary human geographic processes in Souther Africa.         The module will trace the major changes in the economic, political and populati geography of Southern Africa including those associated with the formation of SADC.         GGY 162       Geography       4       A&E 1 ppw       Sem 2         Remote Sensing 162       Use, interpretation and analysis of satellite imagery, aerial photography and other remote sensed data.       Prerequisite: [IT.2]         GGY 163       Geography       6       A&E 4 lpw       Quarter 3         Biogeography of SA 163       Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecological						
Geography of tourism: conceptualisation; basic elements; classification; international a South African context; ecotourism: resources; urban tourism.         Prerequisite: [IT.2]       GGY 155       Geography       6       E 4 lpw       Quarter 1         Human Geography of SADC 155       Foundations for understanding contemporary human geographic processes in Souther Africa.       The module will trace the major changes in the economic, political and populati geography of Southern Africa including those associated with the formation of SADC.         GGY 162       Geography       4       A&E 1 ppw       Sem 2         Remote Sensing 162       Use, interpretation and analysis of satellite imagery, aerial photography and other remote sensed data.       Prerequisite: [IT.2]         GGY 163       Geography       6       A&E 4 lpw       Quarter 3         Biogeography of SA 163       Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecological		0.7	6	A&E 4 lpw		Quarter 2
South African context; ecotourism: resources; urban tourism.         Prerequisite: [IT.2]         GGY 155       Geography       6       E 4 lpw       Quarter 1         Human Geography of SADC 155         Foundations for understanding contemporary human geographic processes in Souther Africa.         The module will trace the major changes in the economic, political and populati geography of Southern Africa including those associated with the formation of SADC.         GGY 162       Geography       4       A&E 1 ppw       Sem 2         Remote Sensing 162       Use, interpretation and analysis of satellite imagery, aerial photography and other remote sensed data.       Prerequisite: [IT.2]         GGY 163       Geography       6       A&E 4 lpw       Quarter 3         Biogeography of SA 163       Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecological	•••	5				
Prerequisite: [IT.2]       Geography       6       E 4 lpw       Quarter 1         Human Geography of SADC 155       Foundations for understanding contemporary human geographic processes in Souther Africa.       The module will trace the major changes in the economic, political and populati geography of Southern Africa including those associated with the formation of SADC.       GGY 162       Geography       4       A&E 1 ppw       Sem 2         Remote Sensing 162       Use, interpretation and analysis of satellite imagery, aerial photography and other remote sensed data.       Prerequisite: [IT.2]       GGY 163       Geography       6       A&E 4 lpw       Quarter 3         Biogeography of SA 163       Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecological       Set	Geograph	y of tourism: conceptua			sification; int	ernational and
GGY 155Geography6E 4 lpwQuarter 1Human Geography of SADC 155Foundations for understanding contemporary human geographic processes in SoutherAfrica.The module will trace the major changes in the economic, political and populatigeography of Southern Africa including those associated with the formation of SADC.GGY 162Geography4A&E 1 ppwSem 2Remote Sensing 162Use, interpretation and analysis of satellite imagery, aerial photography and other remotesensed data.Prerequisite: [IT.2]GGY 163Geography6A&E 4 lpwQuarter 3Biogeography of SA 163Introduction to the biogeography of South Africa; the environment as ecological systeecological laws and processes; natural regions and biomes; humans as ecological						
Human Geography of SADC 155         Foundations for understanding contemporary human geographic processes in Souther Africa.         The module will trace the major changes in the economic, political and populati geography of Southern Africa including those associated with the formation of SADC.         GGY 162       Geography       4       A&E 1 ppw       Sem 2         Remote Sensing 162       Use, interpretation and analysis of satellite imagery, aerial photography and other remote sensed data.       Prerequisite: [IT.2]         GGY 163       Geography       6       A&E 4 lpw       Quarter 3         Biogeography of SA 163       Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecological	South Afri		: resources; ι	urban tourism.		
Foundations for understanding contemporary human geographic processes in Souther Africa.         The module will trace the major changes in the economic, political and populati geography of Southern Africa including those associated with the formation of SADC.         GGY 162       Geography       4       A&E 1 ppw       Sem 2         Remote Sensing 162       Use, interpretation and analysis of satellite imagery, aerial photography and other remote sensed data.       Prerequisite: [IT.2]         GGY 163       Geography       6       A&E 4 lpw       Quarter 3         Biogeography of SA 163       Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecological	South Afri Prerequis	ite: [IT.2]				
Africa.         The module will trace the major changes in the economic, political and populati geography of Southern Africa including those associated with the formation of SADC.         GGY 162       Geography       4       A&E 1 ppw       Sem 2         Remote Sensing 162       Use, interpretation and analysis of satellite imagery, aerial photography and other remote sensed data.       Prerequisite: [IT.2]         GGY 163       Geography       6       A&E 4 lpw       Quarter 3         Biogeography of SA 163       Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecological	South Afri Prerequis GGY 155	ite: [IT.2] Geography	6			Quarter 1
The module will trace the major changes in the economic, political and populati geography of Southern Africa including those associated with the formation of SADC.         GGY 162       Geography       4       A&E 1 ppw       Sem 2         Remote Sensing 162       Use, interpretation and analysis of satellite imagery, aerial photography and other remote sensed data.       Prerequisite: [IT.2]         GGY 163       Geography       6       A&E 4 lpw       Quarter 3         Biogeography of SA 163       Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecological	South Afri Prerequis GGY 155 Human G	ite: [IT.2] Geography eography of SADC 155	6	E 4 Ipw		
geography of Southern Africa including those associated with the formation of SADC.         GGY 162       Geography       4       A&E 1 ppw       Sem 2         Remote Sensing 162       Use, interpretation and analysis of satellite imagery, aerial photography and other remote sensed data.       Prerequisite: [IT.2]         GGY 163       Geography       6       A&E 4 lpw       Quarter 3         Biogeography of SA 163       Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecological	South Afrie Prerequis GGY 155 Human G Foundatio	ite: [IT.2] Geography eography of SADC 155	6	E 4 Ipw	hic processe	
GGY 162       Geography       4       A&E 1 ppw       Sem 2         Remote Sensing 162       Use, interpretation and analysis of satellite imagery, aerial photography and other remote sensed data.       Prerequisite: [IT.2]         GGY 163       Geography       6       A&E 4 lpw       Quarter 3         Biogeography of SA 163       Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecological	South Afric Prerequis GGY 155 Human G Foundation Africa.	ite: [IT.2] Geography eography of SADC 155 ns for understanding c	6 5 ontemporary	<b>E 4 Ipw</b> human geograp		es in Southern
Remote Sensing 162         Use, interpretation and analysis of satellite imagery, aerial photography and other remote sensed data.         Prerequisite: [IT.2]         GGY 163       Geography         6       A&E 4 lpw         Biogeography of SA 163         Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecological	South Afric Prerequis GGY 155 Human G Foundatio Africa. The mode	ite: [IT.2] Geography eography of SADC 155 ns for understanding c ule will trace the maju	6 5 ontemporary or changes	<b>E 4 Ipw</b> human geograp in the economic	c, political a	es in Southern
Use, interpretation and analysis of satellite imagery, aerial photography and other remote sensed data. Prerequisite: [IT.2] GGY 163 Geography 6 A&E 4 lpw Quarter 3 Biogeography of SA 163 Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecological	South Afric Prerequis GGY 155 Human G Foundatio Africa. The modu geography	ite: [IT.2] Geography eography of SADC 155 ns for understanding c ule will trace the major of Southern Africa inclu	6 ontemporary or changes uding those a	<b>E 4 Ipw</b> human geograp in the economic ssociated with the	c, political a	es in Southern and population f SADC.
sensed data.         Prerequisite: [IT.2]         GGY 163       Geography         6       A&E 4 lpw         Biogeography of SA 163         Introduction to the biogeography of South Africa; the environment as ecological syste         ecological laws and processes; natural regions and biomes; humans as ecological	South Afric Prerequis GGY 155 Human G Foundatio Africa. The modu geography GGY 162	ite: [IT.2] Geography eography of SADC 155 ns for understanding c ule will trace the maju of Southern Africa inclu Geography	6 ontemporary or changes uding those a	<b>E 4 Ipw</b> human geograp in the economic ssociated with the	c, political a	es in Southern and population f SADC.
Prerequisite: [IT.2]       6       A&E 4 lpw       Quarter 3         GGY 163       Geography       6       A&E 4 lpw       Quarter 3         Biogeography of SA 163       Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecological	South Afric Prerequis GGY 155 Human G Foundatio Africa. The modu geography GGY 162 Remote S	ite: [IT.2] Geography eography of SADC 155 ns for understanding c ule will trace the maju of Southern Africa inclu Geography ensing 162	6 5 ontemporary or changes uding those a 4	E 4 lpw human geograp in the economic ssociated with the A&E 1 ppw	c, political a e formation o	es in Southern nd population f SADC. Sem 2
GGY 163Geography6A&E 4 lpwQuarter 3Biogeography of SA 163Introduction to the biogeography of South Africa; the environment as ecological systeecological laws and processes; natural regions and biomes; humans as ecological	South Africe Prerequise GGY 155 Human G Foundatio Africa. The modu geography GGY 162 Remote S Use, interp	ite: [IT.2] Geography eography of SADC 155 ns for understanding c ule will trace the maju of Southern Africa inclu Geography ensing 162 pretation and analysis o	6 5 ontemporary or changes uding those a 4	E 4 lpw human geograp in the economic ssociated with the A&E 1 ppw	c, political a e formation o	es in Southern nd population f SADC. Sem 2
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Introduction to the biogeography of South Africa; the environment as ecological syste ecological laws and processes; natural regions and biomes; humans as ecological	South Afric Prerequis GGY 155 Human G Foundatio Africa. The modu geography GGY 162 Remote S Use, inter sensed da Prerequis	ite: [IT.2] Geography eography of SADC 155 ns for understanding c ule will trace the maju of Southern Africa inclu Geography ensing 162 pretation and analysis o ta. ite: [IT.2]	6 5 ontemporary or changes uding those a 4 f satellite ima	E 4 Ipw human geograp in the economic ssociated with the A&E 1 ppw agery, aerial photo	c, political a e formation o	es in Southern ind population f SADC. Sem 2 other remotely
ecological laws and processes; natural regions and biomes; humans as ecologic	South Afric Prerequis GGY 155 Human G Foundatio Africa. The modu geography GGY 162 Use, interp sensed da Prerequis GGY 163	ite: [IT.2] Geography eography of SADC 155 ns for understanding c ule will trace the majury of Southern Africa inclu Geography ensing 162 oretation and analysis o ta. ite: [IT.2] Geography	6 5 ontemporary or changes uding those a 4 f satellite ima	E 4 Ipw human geograp in the economic ssociated with the A&E 1 ppw agery, aerial photo	c, political a e formation o	es in Southern ind population f SADC. Sem 2 other remotely
	South Afric Prerequis GGY 155 Human G Foundatio Africa. The modu geography GGY 162 Use, interp sensed da Prerequis GGY 163 Biogeography	ite: [IT.2] Geography eography of SADC 155 ns for understanding c ule will trace the majury of Southern Africa inclu Geography ensing 162 oretation and analysis o ta. ite: [IT.2] Geography aphy of SA 163	6 5 ontemporary or changes uding those a 4 f satellite ima 6	E 4 lpw human geograp in the economic ssociated with the A&E 1 ppw agery, aerial photo A&E 4 lpw	c, political a e formation o ography and	in Southern f SADC. Sem 2 other remotely Quarter 3
alamante: recource utilization, management and micmanagement in South Africa	South Afric Prerequis GGY 155 Human G Foundatio Africa. The modu geography GGY 162 Remote S Use, interp sensed da Prerequis GGY 163 Biogeogra Introductio	ite: [IT.2] Geography eography of SADC 155 ns for understanding c ule will trace the majur of Southern Africa inclu Geography ensing 162 oretation and analysis o ta. ite: [IT.2] Geography aphy of SA 163 n to the biogeography	6 5 ontemporary or changes uding those a 4 f satellite ima 6 of South Afr	E 4 Ipw human geograp in the economic ssociated with the A&E 1 ppw agery, aerial photo A&E 4 Ipw rica; the environr	c, political a e formation o ography and	es in Southern ind population f SADC. Sem 2 other remotely Quarter 3 ogical system
Prerequisite: [IT.2]	South Afric Prerequis GGY 155 Human G Foundatio Africa. The modu geography GGY 162 Remote S Use, inter sensed da Prerequis GGY 163 Biogeogr Introductic ecological	ite: [IT.2] Geography eography of SADC 155 ns for understanding c ule will trace the majury of Southern Africa inclu Geography ensing 162 oretation and analysis o ta. ite: [IT.2] Geography aphy of SA 163 In to the biogeography laws and processes;	6 5 ontemporary or changes uding those a 4 f satellite ima 6 of South Afr natural reg	E 4 lpw human geograp in the economic ssociated with the A&E 1 ppw agery, aerial photo A&E 4 lpw rica; the environr gions and biome	c, political a e formation o ography and nent as ecol es; humans	es in Southern nd population f SADC. Sem 2 other remotely Quarter 3 ogical system as ecologica
	South Afric Prerequis GGY 155 Human G Foundatio Africa. The modu geography GGY 162 Remote S Use, inter sensed da Prerequis GGY 163 Biogeogr Introductic ecological elements;	ite: [IT.2] Geography eography of SADC 155 ns for understanding c ule will trace the majury of Southern Africa inclu Geography ensing 162 oretation and analysis o ta. ite: [IT.2] Geography aphy of SA 163 n to the biogeography laws and processes; resource utilisation, main	6 5 ontemporary or changes uding those a 4 f satellite ima 6 of South Afr natural reg	E 4 lpw human geograp in the economic ssociated with the A&E 1 ppw agery, aerial photo A&E 4 lpw rica; the environr gions and biome	c, political a e formation o ography and nent as ecol es; humans	es in Southern nd population f SADC. Sem 2 other remotely Quarter 3 ogical system as ecologica
	South Afric Prerequis GGY 155 Human G Foundatio Africa. The modu geography GGY 162 Remote S Use, interp sensed da Prerequis GGY 163 Biogeogra Introductic ecological elements; Prerequis	ite: [IT.2] Geography eography of SADC 155 ns for understanding c ule will trace the major of Southern Africa inclu Geography ensing 162 oretation and analysis o ta. ite: [IT.2] Geography aphy of SA 163 n to the biogeography laws and processes; resource utilisation, mai ite: [IT.2]	6 5 6 6 6 6 6 6 6 6 6 6 6 6 6	E 4 Ipw human geograp in the economic ssociated with the A&E 1 ppw agery, aerial photo A&E 4 Ipw rica; the environr gions and biomed mismanagemen	c, political a e formation o ography and nent as ecol es; humans	es in Southern nd population f SADC. Sem 2 other remotely Quarter 3 ogical system, as ecologica frica.
Introduction to the physical geography of South Africa including climate and weath	South Afric Prerequis GGY 155 Human G Foundatio Africa. The modu geography GGY 162 Remote S Use, interp sensed da Prerequis GGY 163 Biogeogra Introductio ecological elements; Prerequis GGY 164	ite: [IT.2] Geography eography of SADC 155 ns for understanding c ule will trace the majury of Southern Africa inclu Geography ensing 162 pretation and analysis o ta. ite: [IT.2] Geography aphy of SA 163 n to the biogeography laws and processes; resource utilisation, man ite: [IT.2] Geography	6 5 ontemporary or changes uding those a 4 f satellite ima 6 of South Afr natural reg	E 4 lpw human geograp in the economic ssociated with the A&E 1 ppw agery, aerial photo A&E 4 lpw rica; the environr gions and biome	c, political a e formation o ography and nent as ecol es; humans	es in Southern nd population f SADC. Sem 2 other remotely Quarter 3 ogical system as ecologica
maduction to the physical geography of South Anica including clittlate and weath	South Afrie Prerequis GGY 155 Human G Foundatio Africa. The modu geography GGY 162 Remote S Use, interp sensed da Prerequis GGY 163 Biogeogra Introductio ecological elements; Prerequis GGY 164 Physical	ite: [IT.2] Geography eography of SADC 155 ms for understanding c ule will trace the majury of Southern Africa inclu Geography ensing 162 pretation and analysis o ta. ite: [IT.2] Geography laws and processes; resource utilisation, mani- ite: [IT.2] Geography Geography Geography Geography of SA 164	6 5 ontemporary or changes uding those a 4 f satellite ima 6 of South Afr natural reg nagement an 6	E 4 Ipw human geograp in the economic ssociated with the A&E 1 ppw agery, aerial photo A&E 4 Ipw rica; the environr jions and biome d mismanagemen E 4 Ipw	c, political a e formation o ography and nent as ecol s; humans t in South At	es in Southern nd population f SADC. Sem 2 other remotely Quarter 3 ogical system; as ecologica frica. Quarter 4

Module	Department	Credits	Full-time	Flexi-	Quarter
code				learning	Semester Year
arid sem	i-arid and coastal envir	onments: f	luvial systems ar	nd nrocess	
environme		onnento, i	iuviai systemis ai	ia process	cs, mountain
	Geography	12	E 4 lpw + 2 ppw		Qaurter 2
	Geomorphology 252				Quarter 2
Physical processes that influence the earth's surface and management. Specific processes					
	nteraction in themes suc				
	processes		ening, een ereelen	, elepe, lie	
	Geography	12	E 4 lpw + 2 ppw		Quarter 3
	delling 263	1			
	of existing models for urb	an planning	a for cities in deve	lopina cour	tries. and the
	presented by urban real				
	planning in Africa. The				
	, tenure insecurity, and th				
	the aforementioned factor				
models wil	I be considered.				•
GGY 264	Geography	12	E 4 lpw + 2 ppw		Quarter 4
Urban So	cial Morphology 264				
The struc	ture and spatial distrib	ution of c	class, income, et	hnicity, ag	e and other
demograp	hic variables in urban env	ironments i	n South Africa and	other parts	s of the world.
Qualitative	and quantitative analy	ses of soo	cial change and	transformat	tion in cities,
	egregation, desegregatior				
	mes include urban perce	ption, urba	n living, social ar	ea analysis	s, and spatial
	for social integration.	-			1
	Geography	12	E 4 lpw + 2 ppw		Sem 1
	ory GIS 283				
	n to Geographic Informa				
	nd associated technolog				
	comprise concepts prese				
•	ed rather than mastering s	software. II	his module is also	presented	in the second
semester.	0	40			0
	Geography	18	E 4 lpw + 2 ppw		Quarter 2
	velopment Studies 353				<b>66 1</b> - <b>1</b> - <b>1</b>
	ips between land values		0	0	,
	ns, super corporations, pe			aumonues	with selected
	from London, Paris, and J	0nannesbui 18			Quarter 1
	Geography ent Geography 354	10	E 4 lpw + 2 ppw		Quarter
•	0.1.2	ivee on dev	alanmant Aanaata	of dovelop	mont strates
	of development, perspect opulation growth, urbanis				
	neworks for development		•	elopment i	
	Geography	18	E 4 lpw + 2 ppw		Quarter 3
	ental Geomorphology 36		r + ihm + 7 hhm		
	s of geomorphic process		a physical and bu	ilt onvironn	ante: thomas
	eomorphology and enviror				
•	ic risks and hazards,		• • •		
	ntal management, weather				
	oration and preservation of				
	nt laboratory analysis.	or margenou			
Sabsequel	it iaboratory analysis.				

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
GGY 362	Geography	18	E 4 lpw + 2 ppw		Quarter 4
Natural R	esource Management 36	2			
	phere as an environm				
mismanag	ement; principles and	approaches	to sustainable	resource	management;
ecosystem	n management in South .	Africa; solut	tions to environme	ental degra	dation; terrain
potential a	nd impact assessment.				
Special en	nphasis is placed on touris				
GIS 220	Geography	12	E 3 lpw + 1 ppw		Sem 2
	ic Data Analysis 220				
Collection,	management, analysis a	and represe	ntation of geograp	hic data; d	ata sampling,
and prepa	ration; geographic referen	cing; interpo	plation; data integra	ation; prese	ntation.
GIS 310	Geography	24	E 3 lpw + 1 ppw		Sem 1
	ic Information Systems				
Advanced	theory and practice of	Geographi	c Information Sys	stems; GIS	applications;
design and	d implementation of GIS a	pplications.			
Prerequis	ite: [GGY283] or [LP]				
GIS 320	Geography	24	E 3 lpw + 1 ppw		Sem 2
Spatial Ar	nalysis 320		· • •		·
Introductio	n to spatial analysis tech	iniques clas	sification, interpola	ation, extra	polation, geo-
referencing	g, kriging, topology, visua	lisation, ne	tworks, spatial inte	eraction, sp	atial statistics
and gener	al spatial systems analysis	S.			
	al spatial systems analysis ite: [GIS 310] or [LP]	6.			
		s. 16	A&E 4 lpw + 1		Sem 1
Prerequis	ite: [GIS 310] or [LP]		A&E 4 lpw + 1 ppw		Sem 1
Prerequis WST 111	ite: [GIS 310] or [LP] Mathematical		•		Sem 1
Prerequis WST 111 Mathemat	ite: [GIS 310] or [LP] Mathematical Statistics	16	ppw	ls, element	
Prerequis WST 111 Mathemat	ite: [GIS 310] or [LP] Mathematical Statistics ical Statistics 111 ry statistical concepts: Sa	16	ppw descriptive method		ary probability
Prerequis WST 111 Mathemat Introductor theory an	ite: [GIS 310] or [LP] Mathematical Statistics ical Statistics 111	<b>16</b> mpling and n theory.	<b>ppw</b> descriptive method Special statistical	distributio	ary probability
Prerequis WST 111 Mathemat Introductor theory an inference:	ite: [GIS 310] or [LP] Mathematical Statistics ical Statistics 111 ry statistical concepts: Sa d elementary distributio	<b>16</b> mpling and n theory. Stion. Identifi	descriptive method Special statistical cation, use, evalua	distributio	ary probability
Prerequis WST 111 Mathemat Introductor theory an inference:	ite: [GIS 310] or [LP] Mathematical Statistics ical Statistics 111 ry statistical concepts: Sa d elementary distributio Point and interval estimat computer packages and si	<b>16</b> mpling and n theory. Stion. Identifi	descriptive method Special statistical cation, use, evalua	distributio	ary probability
Prerequis WST 111 Mathemat Introductor theory an inference: statistical of	ite: [GIS 310] or [LP] Mathematical Statistics ical Statistics 111 ry statistical concepts: Sa d elementary distributio Point and interval estimat computer packages and si	<b>16</b> mpling and n theory. Stion. Identifi	descriptive method Special statistical cation, use, evalua	distributio	ary probability ns. Statistical
Prerequis WST 111 Mathemat Introductor theory an inference: statistical of Prerequis	ite: [GIS 310] or [LP] Mathematical Statistics ical Statistics 111 ry statistical concepts: Sa d elementary distributio Point and interval estimat computer packages and st ite: [IT.2]	<b>16</b> mpling and n theory. Stion. Identifi tatistical tec	ppw descriptive method Special statistical cation, use, evalua hniques.	distributio	ary probability ns. Statistical terpretation of
Prerequis WST 111 Mathemat Introductor theory an inference: statistical of Prerequis WST 121	ite: [GIS 310] or [LP] Mathematical Statistics ical Statistics 111 ry statistical concepts: Sa d elementary distributio Point and interval estimation computer packages and states ite: [IT.2] Mathematical	<b>16</b> mpling and n theory. Stion. Identifi tatistical tec	ppw descriptive method Special statistical cation, use, evalua hniques. A&E 4 lpw + 1	distributio	ary probability ns. Statistical terpretation of
Prerequis WST 111 Mathemat Introductor theory an inference: statistical of Prerequis WST 121 Mathemat	ite: [GIS 310] or [LP] Mathematical Statistics ical Statistics 111 ry statistical concepts: Sa d elementary distributio Point and interval estimal computer packages and si ite: [IT.2] Mathematical Statistics	16 mpling and n theory. S tion. Identifi tatistical tec 16	ppw descriptive method Special statistical cation, use, evalua hniques. A&E 4 lpw + 1 ppw	distribution tion and in	ary probability ns. Statistical terpretation of Sem 2
Prerequis WST 111 Mathemat Introductor theory an inference: statistical of Prerequis WST 121 Mathemat Distribution	ite: [GIS 310] or [LP] Mathematical Statistics ical Statistics 111 ry statistical concepts: Sa d elementary distributio Point and interval estimal computer packages and si ite: [IT.2] Mathematical Statistics ical Statistics 121 n theory: Expectation and	16 mpling and n theory. 3 tion. Identifi tatistical tec 16 generating	ppw descriptive method Special statistical cation, use, evalua hniques. A&E 4 lpw + 1 ppw g functions. Statist	distribution and in ical inferen	ary probability ns. Statistical terpretation of Sem 2 ce: Point and
Prerequis WST 111 Mathemat Introductor theory an inference: statistical of Prerequis WST 121 Mathemat Distribution interval es	ite: [GIS 310] or [LP] Mathematical Statistics ical Statistics 111 ry statistical concepts: Sa d elementary distributio Point and interval estimal computer packages and si ite: [IT.2] Mathematical Statistics ical Statistics 121 n theory: Expectation and stimation. Hypothesis tes	16 mpling and n theory. 3 tion. Identifi tatistical tec 16 d generating ting with a	ppw         descriptive method         Special statistical         cation, use, evalua         hniques.         A&E 4 lpw + 1         ppw         g functions. Statist         oplications in one	distribution ation and in ical inferen and two-s	ary probability ns. Statistical terpretation of Sem 2 ce: Point and ample cases.
Prerequis WST 111 Mathemat Introductor theory an inference: statistical of Prerequis WST 121 Mathemat Distribution interval es Analysis of	ite: [GIS 310] or [LP] Mathematical Statistics ical Statistics 111 ry statistical concepts: Sa d elementary distributio Point and interval estimal computer packages and si ite: [IT.2] Mathematical Statistics ical Statistics 121 n theory: Expectation and	16 mpling and n theory. S tion. Identifi tatistical tec 16 d generating ting with a free testing	ppw descriptive method Special statistical cation, use, evalua hniques. A&E 4 lpw + 1 ppw g functions. Statist oplications in one methods. Curve	distribution tion and in ical inferen and two-s fitting. Co	ary probability ns. Statistical terpretation of Sem 2 ce: Point and ample cases. prrelation and
Prerequis WST 111 Mathemat Introductor theory an inference: statistical of Prerequis WST 121 Mathemat Distribution interval es Analysis of regression	ite: [GIS 310] or [LP] Mathematical Statistics ical Statistics 111 ry statistical concepts: Said d elementary distributio Point and interval estimar computer packages and si ite: [IT.2] Mathematical Statistics ical Statistics 121 n theory: Expectation and stimation. Hypothesis tess of variance. Distribution- Introductory categorical	16 mpling and n theory. S tion. Identifi tatistical tec 16 generating ting with a free testing data analy	ppw descriptive method Special statistical cation, use, evalua hniques. A&E 4 lpw + 1 ppw g functions. Statist pplications in one methods. Curve vsis. Indices. Ident	distribution tion and in ical inferen and two-s fitting. Co iffication, us	ary probability ns. Statistical terpretation of Sem 2 ce: Point and ample cases. prrelation and se, evaluation
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Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
Definite a	nd indefinite integrals, the	ne fundame	ental theorem of C	alculus, the	e mean value
	or integrals, integration te				
Prerequis					
WTW	Mathematics and	16	A&E 4 lpw + 1		Sem 1
114	Applied Maths		tutorial of 3 hrs		
Calculus	114				
calculus of mean val fundament niques. Th serves as intend to e one of the <b>Prerequis</b> <b>WTW</b> <b>115</b> <b>Discrete \$</b> Proposition induction a	ebra with applications to f single variable function ue theorem, the rule tal theorem of Calculus, his module also includes preparation for students enrol for WTW 218 and following modules for the ite: [IT.2] Mathematics and Applied Maths Structures 115 nal logic: truth tables, log and well-ordering principl d addition rules, permut	ns, rate of of L'Hospi the mean v a formal te s majoring WTW 220). ir degree: v 8 gical equiva e. Counting	change, graph ske ital. Definite and value theorem for ir chnique-mastering in Mathematics (in Students will not b NTW 114, WTW 15 2 lpw + 1 tutorial of 1½ hrs lence, implication, i techniques: eleme	etching, app indefinite ntegrals, int programme cluding all be credited 8 and WTW arguments.	Jications. The integrals, the egration tech- this module students who for more than / 134. Sem 1 Mathematical ability, multipli-
		ations and	combinations, bind	omiai theor	em, inclusion-
exclusion					
Prerequis	ite: [IT.2]	0		1	0
		8	A&E 2 lpw + 1 tutorial of 1½ hrs		Sem 2
Prerequis WTW 123	ite: [IT.2] Mathematics and	8	tutorial of 1 ¹ / ₂		Sem 2
Prerequis WTW 123 Numerica Non-linear	ite: [IT.2] Mathematics and Applied Maths I Analysis 123 equations, numerical int	egration, ini	tutorial of 1½ hrs		tial equations,
Prerequis WTW 123 Numerica Non-linear	ite: [IT.2] Mathematics and Applied Maths I Analysis 123	egration, ini	tutorial of 1½ hrs		tial equations,
Prerequis WTW 123 Numerica Non-linear systems o	ite: [IT.2] Mathematics and Applied Maths I Analysis 123 equations, numerical int	egration, ini ithms for el	tutorial of 1½ hrs itial value problems lementary numerica	al technique	tial equations, as are derived
Prerequis WTW 123 Numerica Non-linear systems o and imple treated.	ite: [IT.2] Mathematics and Applied Maths I Analysis 123 equations, numerical int f linear equations. Algor mented in computer pro	egration, ini ithms for el ograms. Err	tutorial of 1½ hrs itial value problems lementary numerica ror estimates and	al technique	tial equations, as are derived
Prerequis WTW 123 Numerica Non-linear systems o and imple treated. Prerequis	ite: [IT.2] Mathematics and Applied Maths I Analysis 123 equations, numerical int f linear equations. Algor mented in computer pro- ite: [WTW 114 GS or WT	egration, in ithms for el ograms. Err W 101 GS]	tutorial of 1½ hrs itial value problems lementary numerica ror estimates and	al technique	tial equations, es are derived ce results are
Prerequis WTW 123 Numerica Non-linear systems o and imple treated.	ite: [IT.2] Mathematics and Applied Maths I Analysis 123 equations, numerical int f linear equations. Algor mented in computer pro	egration, ini ithms for el ograms. Err	tutorial of 1½ hrs itial value problems lementary numerica ror estimates and	al technique	tial equations,
Prerequis WTW 123 Non-linear systems o and imple treated. Prerequis WTW 126 Linear Alg	ite: [IT.2] Mathematics and Applied Maths I Analysis 123 equations, numerical int of linear equations. Algor mented in computer pro- ite: [WTW 114 GS or WT Mathematics and Applied Maths gebra 126	egration, ini ithms for el ograms. Err W 101 GS] 8	tutorial of 1½ hrs itial value problems lementary numerica ror estimates and A&E 2 lpw + 1 tutorial of 1½ hrs	al technique convergend	tial equations, as are derived be results are Sem 2
Prerequis WTW 123 Non-linear systems o and imple treated. Prerequis WTW 126 Linear Alg	ite: [IT.2] Mathematics and Applied Maths I Analysis 123 equations, numerical int of linear equations. Algor mented in computer pro- ite: [WTW 114 GS or WT Mathematics and Applied Maths	egration, ini ithms for el ograms. Err W 101 GS] 8	tutorial of 1½ hrs itial value problems lementary numerica ror estimates and A&E 2 lpw + 1 tutorial of 1½ hrs	al technique convergend	tial equations, as are derived be results are Sem 2
Prerequis WTW 123 Numerica Non-linear systems o and imple treated. Prerequis WTW 126 Linear Alg Vector alg space R ⁿ	ite: [IT.2] Mathematics and Applied Maths I Analysis 123 equations, numerical int of linear equations. Algor mented in computer pro- ite: [WTW 114 GS or WT Mathematics and Applied Maths gebra 126 jebra with applications, r bases, and determina	egration, ini ithms for el ograms. Err W 101 GS] 8 matrix alget ints. Mathe	tutorial of 1½ hrs itial value problems lementary numerica ror estimates and A&E 2 lpw + 1 tutorial of 1½ hrs ora, systems of line ematical induction.	al technique convergend ear equatio Complex	tial equations, as are derived be results are <b>Sem 2</b> ns, the vector numbers and
Prerequis WTW 123 Numerica Non-linear systems o and imple treated. Prerequis WTW 126 Linear Alg Vector alg space R ⁿ , factorisatio	ite: [IT.2] Mathematics and Applied Maths I Analysis 123 equations, numerical int f linear equations. Algor mented in computer pro- ite: [WTW 114 GS or WT Mathematics and Applied Maths gebra 126 gebra with applications, r , bases, and determina- on of polynomials. Con	egration, ini ithms for el ograms. Err W 101 GS] 8 matrix alget ints. Mathe- ic sections	tutorial of 1½ hrs itial value problems lementary numerica ror estimates and A&E 2 lpw + 1 tutorial of 1½ hrs ora, systems of line ematical induction. 5. This module se	al technique convergend ear equatio Complex rves as p	tial equations, es are derived ce results are Sem 2 ns, the vector numbers and reparation for
Prerequis WTW 123 Numerica Non-linear systems o and imple treated. Prerequis WTW 126 Linear Alg Vector alg space R ⁿ , factorisatic students n	ite: [IT.2] Mathematics and Applied Maths I Analysis 123 equations, numerical int f linear equations. Algor mented in computer pro- ite: [WTW 114 GS or WT Mathematics and Applied Maths gebra 126 jebra with applications, r bases, and determina on of polynomials. Com najoring in Mathematics (	egration, ini ithms for el ograms. Err W 101 GS] 8 matrix alget ints. Mathe ic sections including al	tutorial of 1½ hrs itial value problems lementary numerica ror estimates and A&E 2 lpw + 1 tutorial of 1½ hrs ora, systems of line ematical induction. 5. This module se I students who inter	al technique convergend ear equatio Complex rves as p nd to enrol f	tial equations, as are derived be results are <b>Sem 2</b> ns, the vector numbers and reparation for for WTW 211).
Prerequis WTW 123 Numerica Non-linear systems o and imple treated. Prerequis WTW 126 Linear Alg Vector alg space R ⁿ , factorisatio students n Students N	ite: [IT.2] Mathematics and Applied Maths I Analysis 123 equations, numerical int f linear equations. Algor mented in computer pro- ite: [WTW 114 GS or WT Mathematics and Applied Maths gebra 126 gebra with applications, r , bases, and determination on of polynomials. Com- majoring in Mathematics ( will not be credited for m	egration, ini ithms for el ograms. Err W 101 GS] 8 natrix alget ints. Mathe ic sections including al ore than or	tutorial of 1½         hrs         itial value problems         iementary numerica         ror estimates and         A&E 2 lpw + 1         tutorial of 1½         hrs         ora, systems of line         ematical induction.         a. This module set         students who inter         to of the following in	al technique convergend ear equatio Complex rves as p ad to enrol f modules for	tial equations, as are derived be results are <b>Sem 2</b> ns, the vector numbers and reparation for for WTW 211).
Prerequis WTW 123 Numerica Non-linear systems o and imple treated. Prerequis WTW 126 Linear Alg Vector alg space R ⁿ , factorisatic students n Students n WTW 126	ite: [IT.2] Mathematics and Applied Maths I Analysis 123 equations, numerical int f linear equations. Algor mented in computer pro ite: [WTW 114 GS or WT Mathematics and Applied Maths gebra 126 gebra with applications, r , bases, and determination on of polynomials. Com hajoring in Mathematics ( will not be credited for m , WTW 161. This module	egration, ini ithms for el ograms. Err W 101 GS] 8 natrix alget ints. Mathe ic sections including al ore than or	tutorial of 1½         hrs         itial value problems         iementary numerica         ror estimates and         A&E 2 lpw + 1         tutorial of 1½         hrs         ora, systems of line         ematical induction.         a. This module set         students who inter         to of the following in	al technique convergend ear equatio Complex rves as p ad to enrol f modules for	tial equations, as are derived be results are <b>Sem 2</b> ns, the vector numbers and reparation for for WTW 211).
Prerequis WTW 123 Non-linear systems o and imple treated. Prerequis WTW 126 Linear Alg Vector alg space R ⁿ , factorisatio students n Students n WTW 126. Prerequis	ite: [IT.2] Mathematics and Applied Maths equations, numerical int f linear equations. Algor mented in computer pro- ite: [WTW 114 GS or WT Mathematics and Applied Maths gebra 126 Jebra with applications, r bases, and determina on of polynomials. Com najoring in Mathematics ( will not be credited for m , WTW 161. This module ite: [IT.2]	egration, ini ithms for el ograms. Err W 101 GS] 8 matrix alget ints. Mathe ic sections including al ore than or also include	tutorial of 1½ hrs itial value problems lementary numerica ror estimates and A&E 2 lpw + 1 tutorial of 1½ hrs ora, systems of line ematical induction. 5. This module se I students who inter te of the following i es a formal techniqu	al technique convergend ear equatio Complex rves as p ad to enrol f modules for	tial equations, as are derived be results are <b>Sem 2</b> ns, the vector numbers and reparation for for WTW 211). r their degree: g programme.
Prerequis WTW 123 Numerica Non-linear systems o and imple treated. Prerequis WTW 126 Linear Alg Vector alg space R ⁿ , factorisatio students n Students n WTW 126 Prerequis WTW	ite: [IT.2] Mathematics and Applied Maths I Analysis 123 equations, numerical int of linear equations. Algor mented in computer pro- ite: [WTW 114 GS or WT Mathematics and Applied Maths gebra 126 lebra with applications, n bases, and determina on of polynomials. Com hajoring in Mathematics ( will not be credited for m WTW 161. This module ite: [IT.2] Mathematics and	egration, ini ithms for el ograms. Err W 101 GS] 8 natrix alget ints. Mathe ic sections including al ore than or	tutorial of 1½ hrs itial value problems lementary numerica ror estimates and A&E 2 lpw + 1 tutorial of 1½ hrs ora, systems of line ematical induction. S. This module se I students who inter ne of the following ne es a formal techniqu	al technique convergend ear equatio Complex rves as p ad to enrol f modules for	tial equations, as are derived be results are <b>Sem 2</b> ns, the vector numbers and reparation for for WTW 211).
Prerequis WTW 123 Numerica Non-linear systems o and imple treated. Prerequis WTW 126 Linear Alg Vector alg space R ⁿ , factorisatio students n Students n WTW 126. Prerequis	ite: [IT.2] Mathematics and Applied Maths equations, numerical int f linear equations. Algor mented in computer pro- ite: [WTW 114 GS or WT Mathematics and Applied Maths gebra 126 Jebra with applications, r bases, and determina on of polynomials. Com najoring in Mathematics ( will not be credited for m , WTW 161. This module ite: [IT.2]	egration, ini ithms for el ograms. Err W 101 GS] 8 matrix alget ints. Mathe ic sections including al ore than or also include	tutorial of 1½ hrs itial value problems lementary numerica ror estimates and A&E 2 lpw + 1 tutorial of 1½ hrs ora, systems of line ematical induction. 5. This module se I students who inter ne of the following n es a formal techniqu A&E 2 lpw + 1 tutorial of 1½	al technique convergend ear equatio Complex rves as p ad to enrol f modules for	tial equations, as are derived ce results are Sem 2 ns, the vector numbers and reparation for for WTW 211). r their degree: g programme.
Prerequis WTW 123 Non-linear systems o and imple treated. Prerequis WTW 126 Linear Alg Vector alg space R ⁿ , factorisatic students N WTW 126 Prerequis WTW 126 Prerequis WTW	ite: [IT.2] Mathematics and Applied Maths I Analysis 123 equations, numerical int if linear equations. Algor mented in computer pro- ite: [WTW 114 GS or WT Mathematics and Applied Maths gebra 126 gebra 26 gebra with applications, n , bases, and determina on of polynomials. Com najoring in Mathematics ( will not be credited for m , WTW 161. This module ite: [IT.2] Mathematics and Applied Maths	egration, ini ithms for el ograms. Err W 101 GS] 8 matrix alget ints. Mathe ic sections including al ore than or also include	tutorial of 1½ hrs itial value problems lementary numerica ror estimates and A&E 2 lpw + 1 tutorial of 1½ hrs ora, systems of line ematical induction. S. This module se I students who inter ne of the following ne es a formal techniqu	al technique convergend ear equatio Complex rves as p ad to enrol f modules for	tial equations, as are derived be results are <b>Sem 2</b> ns, the vector numbers and reparation for for WTW 211). r their degree: g programme.
Prerequis WTW 123 Numerica Non-linear systems o and imple treated. Prerequis WTW 126 Linear Alg Vector alg space R ⁿ , factorisatic students n Students n Students n MTW 126 Prerequis WTW 126 Prerequis WTW 128	ite: [IT.2] Mathematics and Applied Maths I Analysis 123 equations, numerical int if linear equations. Algor mented in computer pro- ite: [WTW 114 GS or WT Mathematics and Applied Maths gebra 126 gebra 26 gebra with applications, n , bases, and determina on of polynomials. Com najoring in Mathematics ( will not be credited for m , WTW 161. This module ite: [IT.2] Mathematics and Applied Maths	egration, ini ithms for el ograms. En W 101 GS] 8 matrix alget ints. Mathe ic sections including al ore than or also include 8	tutorial of 1½         hrs         itial value problems         iementary numerication         ror estimates and         A&E 2 lpw + 1         tutorial of 1½         hrs         ora, systems of line         ematical induction.         a. This module set         I students who inter         ne of the following new         a A&E 2 lpw + 1         tutorial of 1½         hrs	ear equatio Complex rves as p ad to enrol f modules fou ue-masterin	tial equations are derived be results are Sem 2 Sem 2 ns, the vector numbers and reparation for for WTW 211). r their degree: g programme. Sem 2

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
space curv This modu students w more than module also	equations. Elementary ves and arc lengths. Quac ule serves as preparation who intend to enrol for WT one of the following n so includes a formal techr ite: [WTW 114 GS or WT	dric surfaces on for stude IW 218 and nodules for nique-maste	and multivariable onts majoring in M WTW 220). Stude their degree: WT	functions. lathematics nts will not	(including al be credited fo
WTW 152	Mathematics and Applied Maths	8	A&E 2 lpw and 1 tutorial of 1 ¹ / ₂ hrs		Sem 1 (also offered in Sem 2)
	,,				
eigenvalue problems,	nd linear equations, line es, eigenvectors, diago linear transformations. ite: [WTW 126] Mathematics and Applied Maths				
multipliers. the theore	218 of multivariable functic Multiple integrals, polar, em of Green. Surface ites: [WTW 114 or WTW	cylindrical a integrals a	onal derivatives. and spherical coord nd the theorems	dinates. Line of Gauss	e integrals and
WTW 220	Mathematics and Applied Maths	12	A&E 2 lpw + 1 tutorial of 1 ¹ / ₂ hrs	-	Sem 2
series an intermedia Analysis o	of real numbers. Analy of theorems of conver te value theorem. f real-valued functions o ' 128 or WTW 102]	gence. The	ences and series e Bolzano-Weiers	trass theor	rem and the
WTW 221	Mathematics and Applied Maths	12	A&E 2 lpw + 1 tutorial of 1 ¹ / ₂ hrs		Sem 2
orthogonal	<b>Jebra 221</b> basis, diagonalisability c transformations, canonic <b>ite:</b> [WTW 211]		sformations, orthog	gonal vecto	rs, unitary and

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
WTW 285	Mathematics and Applied Maths	12	A&E 2 lpw + 1 tutorial of 1 ¹ / ₂ hrs		Sem 2
Discrete	Structures 285				

Counting techniques: combinations with repetition, functions. Pigeon-hole principle. Countability and computability. Setting up and solving recurrence relations. Graphs: paths, cycles, trees, isomorphism. Graph algorithms: Kruskal, Prim, Fleury, loop invariants. **Prerequisite:** [WTW 115]

## IT.31.6THE FOLLOWING MODULE FALLS UNDER THE FACULTY OF LAW

Module code	Department	Credits	Full-time	Flexi- learning	Quarter Semester Year
BER 410	Mercantile Law		4 lpw		
Mercantile Law 410 Introduction to law; general principles of contract law; specific contracts: purchase contracts, employment contracts, job contracting, representative law; general aspects of business law; dispute resolution – mediation and arbitration.					

## IT.32 PRIZES AND MEDALS IN THE FACULTY OF ENGINEERING, BUILT ENVIRONMENT AND INFORMATION TECHNOLOGY

Name	Donor	Award
General		
Medal of the Vice-Chancellor and Principal	University of Pretoria	A silver medal as well as a cash prize awarded to candidates for outstanding academic achievement during the undergraduate years of study for any first Bachelor's degree in a faculty.
S ₂ A ₃ Bronze Medal	The South African Society for the Promotion of Science	The medal is awarded to a student who has completed an exceptionally meritorious Master's study in a field traditionally linked to the activity of the South African Society for the Promotion of Science $(S_2A_3)$
Nokia Best MSc/MEng Dissertation Award on ICT	Nokia	For the best MSc/MEng dissertation awarded at the first graduation ceremony following the year in which the dissertation has been completed (R10 000).
Nokia Distinguished PhD/PhD(Eng) Thesis Award in ICT	Nokia	For the best PhD/PhD(Eng) thesis, awarded at the first graduation ceremony follow- ing the year in which the thesis has been completed (R20 000).

## PRIZES AND MEDALS IN THE SCHOOL OF INFORMATION TECHNOLOGY

Name	Donor	Award			
School of Information Technology					
Accenture Second Year BIT Award	Accenture	For the best student in BIT on second year level R1 500			
Accenture Third Year BIT Award	Accenture	For the best student in BIT on third year level R2 000			
Accenture Fourth Year BIT Award	Accenture	For the best student in BIT on fourth year level R3 000			

Accenture BIT/CS Project Award	Accenture	For the best project in COS 301 with at least one BIT student as a group member R1500
Accenture BIT/Informatics Project Award	Accenture	For the best project in INF 370 with at least one BIT student as a group member R1500

Department of Computer Science				
Roelf van den Heever/	EPIUSE	For the best student in		
EPIUSE Prize		Computer Science at		
		honours level		
Microsoft Third-Year	Microsoft	For the best female student		
Computer Science Prize		in Computer Science at 300		
		level		
The Microsoft Second Year	Microsoft	For the best student in the		
Operating Systems Prize		module Operating Systems		
		at 200 level		
The Microsoft First-Year	Microsoft	For the best student in		
Computer Science Prize		Computer Science at 100		
		level		

Department of Informatics	5	
AST Prize	AST	Best achievement in
		Informatics on 100 level
AST Prize	AST	Best achievement in
		Informatics on 200 level
AST Prize	AST	Best achievement in
		Informatics on 300 level
Inbekon Prize	Inbekon Pty Ltd	For the best project in
		Informatics 370
ABSA Bank Prize	ABSA	For the best achievement
		over the three years of study
		in BCom with specialisation
		in Informatics
Future Enterprise Prize	Gerrie Lewies	For the best honours student
		in Informatics
Informatics Prize	Department of Informatics	For the best honours project
		in Informatics