DIPLOMA IN INFORMATICS
Qualification code: DPIF20 - NQF Level 6 (360 credits)
DPIFF0 - NQF Level 6 (360 credits) (extended curriculum with foundation provision)
SAQA ID: 103078, CHE NUMBER: H/H16/E061CAN

Campus where offered: Soshanguve South Campus

REMARKS

a. Admission requirement(s) and selection criteria:

Please take note that all completed applications received within the published due dates will be ranked. After consideration of the Departmental Student Enrolment Plan, only the top ranking applicants will be selected. Once a programme is full, a waiting list will be in place to provide an opportunity for applicants to fill places of those who did not register on time. Applicants will be informed of their status per official letter from the Office of the Registrar, alternatively, they can check their application status on the TUT website, www.tut.ac.za.

• APPLICANTS WITH A SENIOR CERTIFICATE OBTAINED BEFORE 2008:

Admission requirement(s):
A Senior Certificate or an equivalent qualification with an E symbol at Higher Grade or a D symbol at Standard Grade for English and Mathematics.

Recommended subjects:
Computer Science and Physical Science.

Selection criteria:
Swedish formula.

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>HG VALUE</th>
<th>SG VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
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<td>B</td>
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<td>C</td>
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<td>D</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>E</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Applicants who score 9 or more points according to the formula for academic merit will be invited for an interview or a risk profile test.

Applicants will be notified to make an appointment with the departmental secretary for the interview. This rule applies to all applicants, as well as to applicants who are already registered at other institutions.

• APPLICANTS WITH A NATIONAL SENIOR CERTIFICATE OBTAINED IN OR AFTER 2008:

Admission requirement(s):
A National Senior Certificate with a bachelor’s degree or a diploma endorsement, or an equivalent qualification, with an achievement level of at least 4 for English (home language or first additional language) and 5 for Mathematics or Technical Mathematics or 7 for Mathematical Literacy.

To be considered for the extended curriculum with foundation provision:
A National Senior Certificate with a bachelor’s degree or a diploma endorsement, or an equivalent qualification, with an achievement level of at least 3 for English (home language or first additional language) and 4 for Mathematics or Technical Mathematics or 6 for Mathematical Literacy.
Recommended subjects:
None.

Selection criteria:
To be considered for this qualification, applicants must have an Admission Point Score (APS) of at least 26 (with Mathematics) or 28 (with Mathematical Literacy). Applicants with a score of 23 (with Mathematics) or 25 (with Mathematical Literacy) will be considered for the extended programme.

Assessment procedures:
No further assessment will be done. Applicants who achieve the minimum APS will be considered until the programme complement is full.

Assessment procedures for extended curriculum with foundation provision:
Applicants who achieve the minimum APS of 23 will be considered. Applicants with a score of 21 (with Mathematics) or 24 (with Mathematical Literacy) will be added to a waiting list.

• APPLICANTS WITH A NATIONAL CERTIFICATE (VOCATIONAL) AT NQF LEVEL 4:

Admission requirement(s):
A National Certificate (Vocational) with a bachelor’s degree or a diploma endorsement, with at least 50% (APS of 4) for English (home language or first additional language) and 60% (APS of 5) for Mathematics or 80% (APS of 7) for Mathematical Literacy, 50% for Life Orientation (excluded for APS calculation), 50% (APS of 4) for any other three compulsory vocational subjects.

To be considered for the extended curriculum with foundation provision:
A National Certificate (Vocational) with a bachelor’s degree or a diploma endorsement, with at least 40% (APS of 3) for English (home language or first additional language) and 50% (APS of 4) for Mathematics or 70% (APS of 6) for Mathematical Literacy, 50% for Life Orientation (excluded for APS calculation), 50% (APS of 4) for any other three compulsory vocational subjects.

Selection criteria:
To be considered for this qualification, applicants must have an Admission Point Score (APS) of at least 26 (with Mathematics) or 28 (with Mathematical Literacy). Applicants with a score of 23 (with Mathematics) or 25 (with Mathematical Literacy) will be considered for the extended programme.

Assessment procedures:
No further assessment will be done. Applicants who achieve the minimum APS will be considered until the programme complement is full.

Assessment procedures for extended curriculum with foundation provision:
Applicants who achieve the minimum APS of 23 will be considered. Applicants with a score of 21 (with Mathematics) or 24 (with Mathematical Literacy) will be added to a waiting list.

• APPLICANTS WITH A NATIONAL N CERTIFICATE AS PUBLISHED IN NATED 191: (NQF LEVEL 4):

Admission requirement(s):
A National Senior Certificate and a National N Certificate as published in Nated 191: N3 (NQF Level 4) issued by both the Department of Higher Education and Training (DHET) and the Council for Quality Assurance in General and Further Education and Training (Umalusi), with at least 60% (or 50% for extended programme) for Mathematics.

b. Recognition of Prior Learning (RPL), equivalence and status:
See Chapter 30 of Students’ Rules and Regulations.
c. **Intake for the qualification:**
   January only.

d. **Minimum duration:**
   Three years.

e. **Presentation:**
   Day classes. Classes and assessments take place during the week and on Saturdays.

f. **Exclusion and readmission:**
   See Chapter 2 of Students’ Rules and Regulations.

g. **Work-Integrated Learning:**
   See Chapter 5 of Students’ Rules and Regulations.

### CURRICULUM

**Option 1: Diploma in Informatics (DPIF20)**

**FIRST YEAR**

<table>
<thead>
<tr>
<th>CODE</th>
<th>MODULE</th>
<th>NQF-L</th>
<th>CREDIT</th>
<th>PREREQUISITE MODULE(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COE05X</td>
<td>Communication for Academic Purpose</td>
<td>(5)</td>
<td>(10)</td>
<td></td>
</tr>
</tbody>
</table>

**FIRST SEMESTER**

- CFA115D Computing Fundamentals A (5) (15)
- COH115D Computational Mathematics (5) (15)
- INF125D Information Literacy (block module) (5) (3)
- LFS125X Life Skills (block module) (5) (2)
- PPA115D Principles of Programming A (5) (15)

**SECOND SEMESTER**

- BCM115D Business Cost Management (5) (15) Computational Mathematics
- BFA115D Business Fundamentals (5) (15) Computational Mathematics
- CFB115D Computing Fundamentals B (5) (15) Computing Fundamentals A
- PPA115D Principles of Programming B (5) (15) Principles of Programming A

**TOTAL CREDITS FOR THE FIRST YEAR:** 120

**SECOND YEAR**

<table>
<thead>
<tr>
<th>CODE</th>
<th>MODULE</th>
<th>NQF-L</th>
<th>CREDIT</th>
<th>PREREQUISITE MODULE(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUA216D</td>
<td>Business Analysis A</td>
<td>(6)</td>
<td>(15)</td>
<td></td>
</tr>
<tr>
<td>DBA216D</td>
<td>Database Management Systems A</td>
<td>(6)</td>
<td>(15)</td>
<td></td>
</tr>
<tr>
<td>SIS216D</td>
<td>Introduction to Strategic Information Systems</td>
<td>(6)</td>
<td>(15)</td>
<td></td>
</tr>
<tr>
<td>SYA216D</td>
<td>System Analysis A</td>
<td>(6)</td>
<td>(15)</td>
<td></td>
</tr>
</tbody>
</table>

**SECOND SEMESTER**

- BUA216D Business Analysis A (6) (15) Computational Mathematics
- SIS216D Introduction to Strategic Information Systems (6) (15) Business Fundamentals
- SYA216D System Analysis A (6) (15) Computational Mathematics

**TOTAL CREDITS FOR THE SEMESTER:** 60
### SECOND SEMESTER

<table>
<thead>
<tr>
<th>Code</th>
<th>Module</th>
<th>NQF-L</th>
<th>Credit</th>
<th>Prerequisite Module(s)</th>
</tr>
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<tbody>
<tr>
<td>BUB216D</td>
<td>Business Analysis B</td>
<td>(6)</td>
<td>(15)</td>
<td>Business Analysis A</td>
</tr>
<tr>
<td>DBB216D</td>
<td>Database Management Systems B</td>
<td>(6)</td>
<td>(15)</td>
<td>Database Management</td>
</tr>
<tr>
<td>ITP216D</td>
<td>IT Project Management A</td>
<td>(6)</td>
<td>(15)</td>
<td>Computational Mathematics</td>
</tr>
<tr>
<td>SYB216D</td>
<td>System Analysis B</td>
<td>(6)</td>
<td>(15)</td>
<td>System Analysis A</td>
</tr>
</tbody>
</table>

TOTAL CREDITS FOR THE SEMESTER: 60

TOTAL CREDITS FOR THE SECOND YEAR: 120

### THIRD YEAR

#### FIRST SEMESTER

<table>
<thead>
<tr>
<th>Code</th>
<th>Module</th>
<th>NQF-L</th>
<th>Credit</th>
<th>Prerequisite Module(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEA316D</td>
<td>Introduction to Enterprise Architecture</td>
<td>(6)</td>
<td>(15)</td>
<td>Introduction to Strategic</td>
</tr>
<tr>
<td>ISD316D</td>
<td>Information System Deployment</td>
<td>(6)</td>
<td>(15)</td>
<td>Information Systems</td>
</tr>
<tr>
<td>ITP316D</td>
<td>IT Project Management B</td>
<td>(6)</td>
<td>(15)</td>
<td>Business Analysis B</td>
</tr>
<tr>
<td>PCT316D</td>
<td>Process Testing</td>
<td>(6)</td>
<td>(15)</td>
<td>Database Management Systems B</td>
</tr>
</tbody>
</table>

TOTAL CREDITS FOR THE SEMESTER: 60

#### SECOND SEMESTER

<table>
<thead>
<tr>
<th>Code</th>
<th>Module</th>
<th>NQF-L</th>
<th>Credit</th>
<th>Prerequisite Module(s)</th>
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<tbody>
<tr>
<td>WII316D</td>
<td>Work-Integrated Learning</td>
<td>(6)</td>
<td>(60)</td>
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TOTAL CREDITS FOR THE SEMESTER: 60

TOTAL CREDITS FOR THE THIRD YEAR: 120

TOTAL CREDITS FOR THE QUALIFICATION: 360

Option 2: Diploma in Informatics (extended curriculum with foundation provision) (DPIFF0)

### FIRST YEAR

<table>
<thead>
<tr>
<th>Code</th>
<th>Module</th>
<th>NQF-L</th>
<th>Credit</th>
<th>Prerequisite Module(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFAF05D</td>
<td>Computing Fundamentals A</td>
<td>(5)</td>
<td>(15)</td>
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</tr>
<tr>
<td>COHF05D</td>
<td>Computational Mathematics</td>
<td>(5)</td>
<td>(15)</td>
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</tr>
<tr>
<td>COEF05X</td>
<td>Communication for Academic Purpose</td>
<td>(5)</td>
<td>(10)</td>
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</tr>
<tr>
<td>INFF25D</td>
<td>Information Literacy (block module)</td>
<td>(5)</td>
<td>(3)</td>
<td></td>
</tr>
<tr>
<td>LFSF25X</td>
<td>Life Skills (block module)</td>
<td>(5)</td>
<td>(2)</td>
<td></td>
</tr>
<tr>
<td>PPAF05D</td>
<td>Principles of Programming A</td>
<td>(5)</td>
<td>(15)</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL CREDITS FOR THE FIRST YEAR: 60
## SECOND YEAR

<table>
<thead>
<tr>
<th>CODE</th>
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<tbody>
<tr>
<td>BCMF05D</td>
<td>Business Cost Management</td>
<td>(5)</td>
<td>(15)</td>
<td>Computational Mathematics</td>
</tr>
<tr>
<td>BFSF05D</td>
<td>Business Fundamentals</td>
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<td>CFBF05D</td>
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<tr>
<td>PPBF05D</td>
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<td>(5)</td>
<td>(15)</td>
<td>Principles of Programming A</td>
</tr>
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</table>

TOTAL CREDITS FOR THE SECOND YEAR: 60

## THIRD YEAR

### FIRST SEMESTER

<table>
<thead>
<tr>
<th>CODE</th>
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<tr>
<td>SIS216D</td>
<td>Introduction to Strategic Information Systems</td>
<td>(6)</td>
<td>(15)</td>
<td>Business Fundamentals</td>
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TOTAL CREDITS FOR THE SEMESTER: 60

### SECOND SEMESTER

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<tr>
<td>ITP216D</td>
<td>IT Project Management A</td>
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<td>(15)</td>
<td>Computational Mathematics</td>
</tr>
<tr>
<td>SYB216D</td>
<td>System Analysis B</td>
<td>(6)</td>
<td>(15)</td>
<td>System Analysis A</td>
</tr>
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TOTAL CREDITS FOR THE SEMESTER: 60

TOTAL CREDITS FOR THE THIRD YEAR: 120

## FOURTH YEAR

### FIRST SEMESTER

<table>
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<tr>
<th>CODE</th>
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<th>NQF-L</th>
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<th>PREREQUISITE MODULE(S)</th>
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<tbody>
<tr>
<td>IEA316D</td>
<td>Introduction to Enterprise Architecture</td>
<td>(6)</td>
<td>(15)</td>
<td>Introduction to Strategic Information Systems</td>
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<tr>
<td>ISD316D</td>
<td>Information System Deployment</td>
<td>(6)</td>
<td>(15)</td>
<td>Business Analysis B</td>
</tr>
<tr>
<td>ITP316D</td>
<td>IT Project Management B</td>
<td>(6)</td>
<td>(15)</td>
<td>IT Project Management A</td>
</tr>
<tr>
<td>PCT316D</td>
<td>Process Testing</td>
<td>(6)</td>
<td>(15)</td>
<td>Database Management Systems B</td>
</tr>
</tbody>
</table>

TOTAL CREDITS FOR THE SEMESTER: 60
SECOND SEMESTER

WII316D  Work-Integrated Learning   (6)   (60)

TOTAL CREDITS FOR THE SEMESTER:  60
TOTAL CREDITS FOR THE FOURTH YEAR:  120
TOTAL CREDITS FOR THE QUALIFICATION:  360

MODULE INFORMATION (OVERVIEW OF SYLLABUS)

The syllabus content is subject to change to accommodate industry changes. Please note that a more detailed syllabus is available at the Department or in the study guide that is applicable to a particular module. On 25 October 2019, the syllabus content was defined as follows:

B

BUSINESS ANALYSIS A (BUA216D)   1 X 3-HOUR PAPER
(Module custodian: Department of Informatics)
This module introduces the student to the concepts and principles of business analysis, communication skills, interaction skills, ethics and behaviour within an organisation, Organisational Culture and lastly individual perception, attitudes and personality. (Total tuition time: not available)

BUSINESS ANALYSIS B (BUB216D)   1 X 3-HOUR PAPER
(Module custodian: Department of Informatics)
This module prepares the students with the basic understanding of business analysis concepts thus enabling them to possess a clear understanding of the business analysis environment, knowing the projects and how to increase their value. This entails building the Business Analysis foundation, time management, how to build relationships with the clients and within the organisation. (Total tuition time: not available)

BUSINESS COST MANAGEMENT (BCM115D, BCMF05D)   1 X 3-HOUR PAPER
(Module custodian: Department of Informatics)
This module prepares the student to apply the concepts and applications of any accounting system (cost management) to the organisation structure or to a project. The student will be able to apply his/her knowledge of basic cost management concepts such as budgets and expenses to any organisation’s structure. (Total tuition time: not available)

BUSINESS FUNDAMENTALS (BFS115D, BFSF05D)   1 X 3-HOUR PAPER
(Module custodian: Department of Informatics)
This module prepares the student to apply the concepts and principles of business, management and Organisational behaviour to the organisation or to a project. The student will be able to apply his/her knowledge of basic business and management theory and Organisational behaviour concepts to either an organisation’s structure. (Total tuition time: not available)

C

COMPUTING FUNDAMENTALS A (CFA115D, CFAF05D)   1 X 3-HOUR PAPER
(Module custodian: Department of Computer Science)
The focus of this module is to lay the foundation for the design and implementation of computer programming solutions on different platforms, including the web and mobile devices by enabling students to gain basic computer professional skills in the area of computer structure, operating systems, security and computer professional practice. (Total tuition time: not available)
COMPUTING FUNDAMENTALS B (CFB115D, CFBF05B)  1 X 3-HOUR PAPER  
(Module custodian: Department of Computer Science)  
This module prepares the student to apply programming and software engineering principles to provide solutions to a range of problems emanating from the IT industry. The focus of this module is to lay the foundation for the design and implementation of computer programming solutions on different platforms, including the web and mobile devices. The student will be able to apply his/her knowledge of concepts and principles relating to information systems, databases, systems analysis, system’s requirements, IT project justification and internet (web). (Total tuition time: not available)

COMMUNICATION FOR ACADEMIC PURPOSE (COE105X, COEF05X)  1 X 3-HOUR PAPER  
(Module custodian: Department of Applied Languages)  
This module applies a variety of listening and note taking skills for academic and professional purposes, different reading strategies appropriate to the purpose for reading in both an academic and professional environment, composes a selection of written texts related to a specific field of study. Plan, draft, revise and edit written work for clarity, coherence, style and appropriateness. (Total tuition time: not available)

COMPUTATIONAL MATHEMATICS (COH115D, COHF05D)  1 X 3-HOUR PAPER  
(Module custodian: Department of Computer Science)  
The focus of this module is to teach students mathematical reasoning which will be necessary to solve complex programming problems in later courses. The theoretical knowledge obtained from this module is expected to develop students to solve real world computer systems challenges by applying logic from a mathematical perspective relating to computer applications. (Total tuition time: not available)

DATABASE MANAGEMENT SYSTEMS A (DBA216D)  1 X 3-HOUR PAPER  
(Module custodian: Department of Informatics)  
In this module, students will gain an understanding of the process of handling database management so that they can use this knowledge to create a new object-orientated database. Students will also learn the various tools and techniques that can be used for Database Management. (Total tuition time: not available)

DATABASE MANAGEMENT SYSTEMS B (DBB216D)  1 X 3-HOUR PAPER  
(Module custodian: Department of Informatics)  
In this module, students will gain an ability to create and manipulate object-orientated databases. Candidates completing this module will be able to apply database management techniques, what is involved in the databases management process, be able to use databases utilising various techniques, attention will be given to the various techniques of manipulating databases. Students will also learn how to use MySQL as a tool within the project to reach a successful solution of the problem and the various manipulations of data. (Total tuition time: not available)

INFORMATION LITERACY (INF125D, INFF25D)  CONTINUOUS ASSESSMENT  
(Module custodian: Directorate of Library and Information Services)  
The purpose for this module is to provide students with an introduction to the competencies required to be an effective student at university. It aims to empower students with the skills, knowledge, abilities and attitudes required to address academic challenges in a proactive and meaningful way. (Total tuition time: not available)

INFORMATION SYSTEM DEPLOYMENT (ISD316D)  PROJECT ASSESSMENT  
(Module custodian: Department of Informatics)  
The student will be able to apply his/her knowledge of basic cost management, business theory, project management and Organisational performance with business analysis, system analysis and database management to deploy an Information System. Upon completion of the module, the student will be able to research, identify, analyse, and design; propose expansion, test, maintain and deploy an Organisational IT system. (Total tuition time: not available)
INTRODUCTION TO ENTERPRISE ARCHITECTURE (IEA316D) 1 X 3-HOUR PAPER  
(Module custodian: Department of Informatics)  
This module prepares the student to apply their individual knowledge and skill to identify the enterprise architecture of an organisation. The focus is to introduce students to Enterprise Architecture - contexts (Zachman), methodologies, frameworks (TOGAF) and handling of policies and procedures for an organisation. (Total tuition time: not available)

INTRODUCTION TO STRATEGIC INFORMATION SYSTEMS (SIS216D) 1 X 3-HOUR PAPER  
(Module custodian: Department of Informatics)  
This module prepares the student to apply the concepts and principles to determine the actual output or results of an organisation measured against the intended outputs (goals and objectives), therefore the strategic information systems. (Total tuition time: not available)

IT PROJECT MANAGEMENT A (ITP216D) 1 X 3-HOUR PAPER  
(Module custodian: Department of Informatics)  
This module prepares the student to apply their individual knowledge and skill to administer the management of a project related to the organisation and the Information System environment. The focus of this module is to expose the graduate to the fundamentals of project management. (Total tuition time: not available)

IT PROJECT MANAGEMENT B (ITP316D) 1 X 3-HOUR PAPER  
(Module custodian: Department of Informatics)  
This module prepares to apply the student’s advanced individual knowledge and skill to administer the management of agile project related to the organisation and the Information System environment. The focus of this module is to expose the student to the strategies on management of time through all the project phases. (Total tuition time: not available)

LIFE SKILLS (LFS125X, LFSF25X) CONTINUOUS ASSESSMENT  
(Module custodian: Directorate of Student Development and Support)  
The purpose for this module is to provide students with an introduction to the competencies required to be an effective student at university. It aims to empower students with the skills, knowledge, abilities and attitudes required to address academic challenges in a proactive and meaningful way. (Total tuition time: not available)

PRINCIPLES OF PROGRAMMING A (PPA115D, PPAF05D) 1 X 4-HOUR COMPUTER BASED  
(Module custodian: Department of Computer Science)  
The focus of this module is to introduce students to the basic object-oriented programming (OOP) concepts in VB.NET such as the importance of OOP in the software industry, identification of objects from problem statements, relationship between objects and classes, usage of predefined classes in programs, arithmetic operators, data types and their conversion. (Total tuition time: not available)

PRINCIPLES OF PROGRAMMING B (PPB115D, PPBF05D) 1 X 4-HOUR COMPUTER BASED  
(Module custodian: Department of Computer Science)  
This module introduces students to intermediate object-oriented programming concepts in VB.NET such as selection control structures, iteration control structures; and manipulation of strings, characters and primitive arrays. (Total tuition time: not available)

PROCESS TESTING (PCT316D) 1 X 3-HOUR PAPER  
(Module custodian: Department of Informatics)  
In this module, students will gain the fundamentals of process testing skills so that they can effectively use this knowledge to bridge the gap between business modelling and system deployment. Students that have completed this module will be able to conduct fundamental testing on Information systems, also within the Information Technology environment. (Total tuition time: not available)
<table>
<thead>
<tr>
<th>Module Code</th>
<th>Title</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYA216D</td>
<td>SYSTEM ANALYSIS A (SYA216D) 1 X 3-HOUR PAPER</td>
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<tr>
<td></td>
<td>(Module custodian: Department of Informatics)</td>
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<tr>
<td></td>
<td>This module prepares the student to apply the concepts and principles of a predictive system structured approach to system analysis and design. Upon completion of the module, the student will be able to identify and explain a structured approach concept and principles, and be able to design a system based on the System Development Life Cycle (SDLC). (Total tuition time: not available)</td>
<td></td>
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<tr>
<td>SYB216D</td>
<td>SYSTEM ANALYSIS B (SYB216D) 1 X 3-HOUR PAPER</td>
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<td>(Module custodian: Department of Informatics)</td>
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<tr>
<td></td>
<td>Upon completion of the module the student will be able to identify and explain an object-orientated approach concept and principles, know the difference between object-orientated and structured approaches and be able to design a system based on a best practice modelling technique (such as UML). (Total tuition time: not available)</td>
<td></td>
</tr>
<tr>
<td>WII316D</td>
<td>WORK-INTEGRATED LEARNING (WII316D) WORK INTEGRATED LEARNING</td>
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<tr>
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<td>(Module custodian: Department of Informatics)</td>
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<td>This module prepare the student to integrate the application of the concepts and principles learned through the theoretical learning of all the modules in the qualification. The student will be able to apply his/her knowledge of theory aquired in the qualification. Upon completion of the module, the student will be able to analyse and behave professionally in the working environment. (Total tuition time: not available)</td>
<td></td>
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