

INFORMATION SYSTEMS



FACULTY OF
ACCOUNTING
& INFORMATICS

2020 HAND 2024 BOOK

ENVISION2030

Integrity • Honesty • Integrity • Respect • Accountability
Fairness • Professionalism • Commitment • Compassion • Innovation

CREATIVE. DISTINCTIVE. IMPACTFUL.

HANDBOOK FOR 2024

FACULTY of ACCOUNTING AND INFORMATICS

FACULTY VISION

Globally recognized for excellence.

FACULTY MISSION

“Developing Adaptive and Transformative Leaders for a Smart Society” through:

- Excellence in Learning, Teaching and Assessment
- Relevant Research and Creative Innovation
- Entrepreneurship and Collaboration

FACULTY VALUES

Fairness

We treat people equitably with respect. Our decisions are impartial. We embrace diversity and inclusion.

Accountability

We accept responsibility for activities, decisions, actions and disclose outcomes in a transparent way.

Integrity

We enhance our reputation with consistent trustworthy conduct.

DEPARTMENT OF INFORMATION SYSTEMS

PROGRAMMES

Diploma in Information and Communication Technology in Business Analysis
Bachelor of Information and Communications Technology in Internet of Things (IoT)
Diploma in Library and Information Studies
Advanced Diploma in Library and Information Science
Postgraduate Diploma in Library and Information Science
Master of Management Sciences in Library and Information Science
Doctor of Philosophy in Library and Information Science

DEPARTMENTAL VISION

To become a world recognised provider of Information Systems knowledge workers in a digital and information society.

DEPARTMENTAL MISSION

To strive to enrich a student-centered experience through innovative technological programmes, cutting edge research that delivers tech-savvy solutions and ongoing engagement in the digital and information sector.

DEPARTMENTAL VALUES

Innovation: To think out of the box. To strive for better. To apply cutting-edge curriculum, research and process. To be creative and exciting. To embrace collaboration.

Compassion: To care and have empathy - to consider from another's perspective. To understand our students. To be ethical - do no harm. To be committed. Ubuntu: "I am because we are".

Transformation: To embrace the digital revolution. To be the architects of change. To be adaptive. To contribute to economic and societal progress - a mix of human and technological values.

GOALS

The goals of the Department are to:

- Produce adaptive graduates through relevant ICT programmes to advance a digital society.
- Transform society through significant ICT research that generates new knowledge and solutions.
- Be engaged and establish mutually beneficial partnerships in the community.

What is a University of Technology?

A University of Technology is characterized by being research informed than research driven where the focus is on strategic and applied research that can be translated into professional practice. Furthermore, emphasis on research output is directed towards commercialization to provide an alternative source of income for the University. Learning programmes, in which the emphasis on technological capability is as important as cognitive skills, are developed around graduate profiles as supported by industry and the professions.

CONTENTS

| | Page |
|--|------|
| 1. CONTACT DETAILS | 1 |
| 2. STAFFING | 2 |
| 3. PROGRAMMES OFFERED BY THE DEPARTMENT | 5 |
| 4. PROGRAMME INFORMATION AND RULES FOR ENTRANCE REQUIREMENTS | 7 |
| 5. PROGRAMME STRUCTURE | 14 |
| 6. REGISTRATION AND RE-REGISTRATION RULES | 34 |
| 7. MODULE CONTENT | 35 |

IMPORTANT NOTICE

The departmental rules in this handbook must be read in conjunction with the University's General Rules included in the Student Handbook.

The University reserves the right to change the contents without prior notice.

NOTE TO ALL REGISTERED STUDENTS

Your registration is in accordance with all current rules of the University. If, for whatever reason, you do not register consecutively for every year of your programme, your existing registration contract with the University will cease. Your re-registration anytime thereafter will be at the discretion of the University and, if permitted, will be in accordance with the rules applicable at that time.

1. CONTACT DETAILS

All Departmental queries to:

Secretary:

Ms W Xulu

Tel No:

031 373 5446

Fax No:

Email:

winniex@dut.ac.za

Location of Department:

Block B, 2ND floor, Ritson Campus

All Faculty queries to:

Faculty Assistant:

Mr KC Mjwara

Tel No:

031-373 5544/5152

E-mail:

KhulekaniM4@dut.ac.za

Faculty Officer:

Mrs N Singh-Sakichand

Tel:

031 373 5149

Email:

nitashas@dut.ac.za

Location of Faculty office:

East Wing, Hotel School Building,
Ritson Campus

Executive Dean:

Professor O Olugbara

Tel No:

031 373 5597

Executive Dean's Secretary

Ms L Phasha

Email:

MatladiP@dut.ac.za

Location of Executive

North Wing, Hotel School Building, Ritson

Dean's office:

2. STAFFING - NAME AND QUALIFICATION

| Position | Name | Qualification |
|---|-----------------|--|
| Head of Department (Act) Associate Professor | Prof Naicker N | PhD [UKZN]; MSc; BSc (Hons) [UNISA]; BSc[UNISA]; HED [SCE] |
| Senior Lecturers | Gonsalves N | MA(OralityLiteracy Studies) [UND];BA (Hons)(Speech& Drama) [UDW]; BA (Speech&Drama, Scienceof Religion) [UDW]; ND: IT [MLST] |
| | Dr Parabanath S | PhD IS&T [UKZN] |
| | Dr Rajkoomar M | PhD (LIS) [DUT]; MIM [UNSW]; BBibl [UNISA]; BA [UNISA]; HED [UNISA] |
| | Dr Sentoo NR | DAdmin [UDW]; MBA [Buckinghamshire Chilterns University]; MIS [UN]; BA: Sociology (Hons) [UDW]; IS (Hons) [UN]; HD: LIS [UDW]; BA: Psychology & Sociology Majors [UDW] |
| Lecturers | Dr Alimi OA | PhD Elect & Elect Engineering [UJ]; MTech Elect Engineering [UJ]; BTech (Hons) Elect & Elect Engineering [LAUTECH] |

| | | |
|--|------------------------------|---|
| | Dlalisa S | MCom IS&T [UKZN]; BTech: IT [MLST]; ND: IT [MLST] |
| | Dr Govender TP | PhD [UKZN]; MEd [UKZN]; BTech: IT [MLST]; BSc [UNISA]; HED [TCE] |
| | Dyubele S | MICT [DUT]; BTech [WSU]; ND IT [WSU] |
| | Khumalo A | MMLIS [DUT]; BTech: LIS [DUT]; ND: LIS [DUT] |
| | Khomo M | MTech [DUT]; BTech: LIS [DUT]; ND: LIS [MLST] |
| | Mbangata L | MICT [DUT]; BTech IT(BA) [TUT]; ND: IT [DUT] |
| | Monyeki P | MICT [DUT] BTech IT [DUT]; ND IT [DUT] |
| | Moonsamy D | MCom IS&T [UKZN]; BSc (Hons) [UNISA]; BSc [UNISA]; Dip Data Metrics [UNISA] |
| | Naicker E | MICT [DUT]; BTech: IT [DIT]; ND: IT [MLST] |
| | Dr Patel S | PhD (Electronic Engineering) [UKZN], BScEng (Electronic) [UKZN] |
| | Dr Rajagopaul A | PhD (IS) [UKZN]; MTech [DUT]; BTech: LIS [DUT]; ND: LIS [DUT] |
| | Rakoma P | MTech [DUT]; BTech: LIS [DIT]; ND: LIS [MLST] |
| | Ramnarain A | MCom IS&T [UKZN]; BTech: IT [UNISA]; ND: IT [UNISA] |
| | Ramraj U | MBA [UDW]; BTech: Comm Ad [MLST]; ND: BA [MLST] |
| | Zincume X | MCom IS&T [UKZN]; BTech: IT [DIT]; BTech: FIS [DIT] |
| South African Sign Language Interpreters | Mngadi S | BTech: TIP [DUT]; Dip: Mngt Science [DUT]; ND: TIP [DIT] |
| | Phakathi, S | JPTD-Mpumalanga; Dip Rem Ed; BEd [Univ of Potch] |
| | Du Toit P (Deaf coordinator) | MA (Translation and Interpreting Studies) [Wits University] |

| | | |
|----------------------|----------|---|
| Administrative staff | Naidoo F | Business Administration [New Skills Academy] |
| Senior Technician | Nepaul R | BTech: IT [DUT]; ND: IT [MLST]; Computer Operations [MLST]; Certified Novell Administrator [Novell Education]; CDP [CUC]; COPE [CUC] |
| Technician | Mjoko N | BTech: BA [DUT]; ND: IT [DUT]; CompTIA A+ [Bytes]; CompTIA N+ [Bytes]; Conduct OBA [TLN Human Performance Systems Ltd]; ITIL 4 Foundation [Bytes]; Project Mngt [DUT] |

3. PROGRAMMES OFFERED BY THE DEPARTMENT

Programmes offered in this Department, which upon successful completion lead to the award of the following qualifications:

| Qualification Name | Qualification Code | SAQA NLRD No. | NQF Level | Current Status of Programme offerings | SAQA CREDITS |
|---|--------------------|---------------|-----------|---------------------------------------|--------------|
| Diploma in Information and Communication Technology in Business Analysis | DIIBA1 | 97709 | 6 | Active First intake 2017 | 360 |
| Bachelor of Information and Communications Technology in Internet of Things (IoT) | BICIOT | 119814 | 7 | Active First intake 2023 | 372 |
| Diploma in Library and Information Studies | DILIS1 | 111835 | 6 | Active First intake 2018 | 380 |
| Advanced Diploma in Library and Information Science | ADLIS1 | 116407 | 7 | Active First intake 2020 | 120 |
| Postgraduate Diploma in Library and Information Science | PGDLIS | 117723 | 8 | First intake 2024 | 120 |
| Master of Management Sciences in Library and Information Science | MMLIS1 | 96837 | 9 | Active First intake 2015 | 180 |
| PhD in Library and Information Science | DPLIS1 | 96816 | 10 | Active First intake 2015 | 360 |

PHASED-OUT PROGRAMMES

| Qualification Name | Qualification Code | SAQA NLRD No. | NQF Level | Current Status of Programme offerings | SAQA CREDITS |
|---|--------------------|---------------|-----------|--|--------------|
| ND: Library and Information Studies Four Year Extended Curriculum Programme | NDLIF2 | N/A | 6 | Last intake in 2017 - Phased-out in 2022 | 360 |
| ND: Library and Information Studies | NDLIS1 | N/A | 6 | Last intake in 2017 - Phased out in 2021 | 360 |
| BTech: Library and Information Studies | BTLIS1 | N/A | 7 | Last intake 2018 - Phased out in 2020 | 480 |

THE DEAF CENTRE

In line with DUT's ENVISION 2030, the Information Systems Department is the proud custodian of the Deaf Centre. Based on Ritson Campus, the Deaf Centre offers holistic support to facilitate the successful inclusion of the Deaf community in mainstream education. The Centre boasts three qualified South African Sign Language interpreters and a Deaf Culture liaison officer. From a collaborative perspective, they support academic staff, offer South African Sign Language interpreting and translation services, support Deaf students with Deaf-on-Deaf tutoring and promote Deaf Culture awareness. Deaf students who meet the minimum entrance requirements may be admitted to the IS Department programme offerings.

4. PROGRAMME INFORMATION AND RULES FOR ENTRANCE REQUIREMENTS

4.1. NAME OF QUALIFICATION: DIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY IN BUSINESS ANALYSIS

QUALIFICATION CODE: DIIBA1

The minimum duration for the above programme is three years of full-time study.

| MINIMUM ENTRANCE REQUIREMENTS | | | | | | |
|--|-----------------|-----------------------------------|-----|-----|--|------|
| NATIONAL SENIOR CERTIFICATE (NSC) (01 January 2009) | | SENIOR CERTIFICATE (SC)(PRE 2009) | | | NATIONAL CERTIFICATE VOCATIONAL (NCV) | |
| NSC DIPLOMA ENTRY | | SENIOR CERTIFICATE (SC) | | | (NCV) LEVEL 4 | |
| Compulsory Subjects | NSC Rating Code | Compulsory Subjects | HG | SG | Compulsory Subjects | Mark |
| English | 3 | English | E | C | English | 50% |
| English (1 st additional) | 4 | Mathematics | E | C | Mathematics | 50% |
| Mathematics OR | 3 | | | | | |
| Mathematics Literacy | 6 | | | | | |
| And Two 20 credit subjects (Life Orientation or more than one additional language is excluded) | 3 | | N/A | N/A | (a)At least 50 % in one fundamental subject, in addition to English & Mathematics. (b) At least 60 % in three compulsory vocational subjects | |

This requirement represents the minimum and students will be ranked according to a points system based on the rating code in General Rule 7.

In addition to the above, the DUT general rules will apply with regard to admission requirements based on work experience, age and maturity, and admission via Recognition of Prior Learning (RPL). The admission of International students will be according to DUT's Admission's policy for International Students and General Rules.

Selection Procedure:

Meeting the minimum entry requirements does not automatically guarantee acceptance. It depends on the number of applicants and number of places allowed by DUT. Applicants are selected in order of merit, based on the subject list above, on a first-come first-served basis.

NB: These gazetted minimum admission requirements are subject to more restrictive departmental admission requirements, if applicable.

4.2. QUALIFICATION NAME: BACHELOR OF INFORMATION AND COMMUNICATIONS TECHNOLOGY IN INTERNET OF THINGS (IOT)
QUALIFICATION CODE: BICIOT

The minimum duration for the above programme is three years of full-time study.

| MINIMUM ENTRANCE REQUIREMENTS | | | | | | |
|--|------------------------|---|-----------|-----------|--|-------------|
| NATIONAL SENIOR CERTIFICATE (NSC) (01 January 2009) | | SENIOR CERTIFICATE (SC)(PRE 2009) | | | NATIONAL CERTIFICATE VOCATIONAL (NCV) | |
| NSC DIPLOMA ENTRY | | SENIOR CERTIFICATE (SC) | | | (NCV) LEVEL 4 | |
| Compulsory Subjects | NSC Rating Code | Compulsory Subjects | HG | SG | Compulsory Subjects | Mark |
| English | 4 | English | D | B | English | 60% |
| English (1 st additional) | 4 | Mathematics And at least one of the following subjects: Physical Science OR Information Technology | D | B | Mathematics | 60 % |
| Mathematics | 4 | | D | B | | |
| And at least one of the following subjects: Physical Science OR Information Technology | 4 | | | | | |
| | | | | | (a) At least 60 % in one fundamental subject in addition to English & Mathematics. (b) At least 70 % in four compulsory vocational subjects. | |

Note: All applicants must apply through the Central Applications Office (CAO). Selection will be based on the ranking of applicants who meet the minimum requirements. Admission is subject to available space. In addition to the above, the Department of IS can apply selection and ranking criteria based on academic merits and/or work experience before granting admission.

Selection Procedure:

Meeting the minimum entry requirements does not automatically guarantee acceptance. It depends on the number of applicants and number of places allowed by DUT. A points system is used for admission to the Department of Information Systems. Applicants are selected in order of merit, based on the subject list above, on a first-come first-served basis and may include interviews and entrance tests.

NB: These gazetted minimum admission requirements are subject to more restrictive departmental admission requirements, if applicable.

4.3. QUALIFICATION NAME: DIPLOMA IN LIBRARY AND INFORMATION STUDIES
QUALIFICATION CODE: DILIS1

The minimum duration for the programme is three years of full-time study.

| MINIMUM ENTRANCE REQUIREMENTS | | | | | | |
|---|------------------------|--|--|---|--|-------------|
| NATIONAL SENIOR CERTIFICATE (NSC) (01 January 2009) | | SENIOR CERTIFICATE (SC)(PRE 2009) | | | NATIONAL CERTIFICATE VOCATIONAL (NCV) | |
| NSC DIPLOMA ENTRY | | SENIOR CERTIFICATE (SC) | | | (NCV) LEVEL 4 | |
| Compulsory Subjects | NSC Rating Code | Compulsory Subjects | HG | SG | Compulsory Subjects | Mark |
| English | 3 | English | E | D | | |
| English (1 st additional) | 4 | Mathematics | E | D | | |
| Mathematics Or | 3 | | | | | |
| Mathematics Literacy | 4 | | | | | |
| And Four 20 credit subjects(Excluding Life Orientation and, not more than two languages- | 3 | | Four best Subjects including English and one (1) additional language | Four Other Subjects Including English and one (1) Additional Language | | |
| <p>Note: All applicants must apply through the Central Applications Office (CAO). Selection will be based on the ranking of applicants who meet the minimum requirements. Admission is subject to available space. In addition to the above requirements, students will be accepted upon passing a selection test and interview.</p> | | | | | | |

Selection Procedure:

Meeting the minimum entry requirements does not automatically guarantee acceptance. It depends on the number of applicants and number of places allowed by DUT.

Suitable Candidate Selection

All applicants must apply through the **Central Applications Office (CAO)**. Ranking will be based on the students that have passed the selection test and an interview. The nature of the profession demands that the graduate be suited to work in the library and information environment. Relying solely on the ranking system will not allow the Programme to recruit the kind of students that are inclined to the library and information environment. The test used for selection is a comprehension test, an interest profile questionnaire and a one-on-one interview with an academic. The interest profile and interview provide appropriate students that would best fit the LIS profession.

**4.4 QUALIFICATION NAME: ADVANCED DIPLOMA IN LIBRARY AND INFORMATION SCIENCE
QUALIFICATION CODE: ADLIS1**

The minimum duration for the programme is one year of full-time study.

ENTRANCE REQUIREMENTS

National Diploma OR Diploma in Library and Information Studies OR;
Equivalent qualification in a cognate field at NQF level 6

**4.5. QUALIFICATION NAME: POSTGRADUATE DIPLOMA IN LIBRARY AND INFORMATION SCIENCE
QUALIFICATION CODE: PGDLIS**

ENTRANCE REQUIREMENTS

Advanced Diploma in Library and Information Science OR; Equivalent qualification in a cognate field at NQF level 7

**4.6. QUALIFICATION NAME: MASTER OF MANAGEMENT SCIENCES IN LIBRARY AND INFORMATION SCIENCE
QUALIFICATION CODE: MMLIS1**

The minimum duration for the above programme is minimum 1 year of full-time study.

ENTRANCE REQUIREMENTS

Entrance to this higher qualification is a NQF Level 8 qualification in Library and Information Science or LIS related field.

**4.7. QUALIFICATION NAME: DOCTOR OF PHILOSOPHY IN
LIBRARY AND INFORMATION SCIENCE
QUALIFICATION CODE: DPLIS1**

The minimum duration for the above programme is two years of study.

ENTRANCE REQUIREMENTS

An appropriate Masters degree or equivalent in Library and Information Science or related field. This is an advanced qualification and is based on research.

5. PROGRAMME STRUCTURE

**5.1 QUALIFICATION NAME: DIPLOMA IN INFORMATION AND
COMMUNICATIONS TECHNOLOGY IN BUSINESS ANALYSIS
QUALIFICATION CODE: DIIBA1**

Note: * denotes Major module

YEAR ONE - STUDY PERIOD ONE

| Core (C); Fundamental (F) Gen Edu. (GE) | Module Name | Module Code | NQF level | Module credits | Pre-requisite (P) Co-requisite (C) Exposure (E) | Exam\ CA |
|--|-------------|----------------|--------------|-------------------|---|-------------|
|--|-------------|----------------|--------------|-------------------|---|-------------|

SEMESTER 1

| | | | | | | |
|------------|---|---------|---|----|--|------|
| [C] | Financial Accounting I | FINA101 | 5 | 12 | | Exam |
| [GE] Inst. | Information & Communications Technology Literacy & Skills | ICTL101 | 5 | 8 | | CA |
| [GE] Fac. | Business Fundamentals I | BFND101 | 5 | 12 | | CA |
| [C] | Applications Development IA | APDA101 | 5 | 12 | | CA |
| [F] | Fundamentals of Computer Security | FCSC101 | 5 | 8 | | CA |
| [GE] Inst. | Me, My World, My Universe | MWMU101 | 5 | 8 | | CA |

SEMESTER 2

| | | | | | | |
|------------|---------------------------------|---------|---|----|--------------------------------|------|
| [GE] Inst. | Law for Life | LWLF101 | 5 | 8 | | CA |
| [C] | Applications Development IB | APDB101 | 5 | 12 | Applications DevelopmentIA [E] | CA |
| [GE] Inst. | Cornerstone 101 | CSTN101 | 5 | 12 | | CA |
| [C] | Business Analysis Project I* | BSAP101 | 5 | 16 | | CA |
| [C] | Business Information Systems I* | BSIS101 | 5 | 12 | | Exam |

YEAR TWO - STUDY PERIOD TWO

| Core (C); Fundamental (F) Gen Edu. (GE) | Module Name | Module Code | NQF level | Module credits | Pre-requisite (P) Co-requisite (C) Exposure (E) | Exam\ CA |
|--|--|----------------|--------------|-------------------|--|-------------|
| SEMESTER 1 | | | | | | |
| [GE] Fac. | Business Fundamentals II | BFND201 | 6 | 12 | Business Fundamentals I (P) | CA |
| [C] | Business Analysis IIA* | BSAA201 | 6 | 8 | Financial Accounting I (P) | Exam |
| [C] | Applications Development IIA | APDA201 | 6 | 12 | Applications Development IA [P]; Applications Development IB (P) | Exam |
| [C] | Information Management IIA | INMA201 | 6 | 8 | | Exam |
| [C] | Computer Applications in Business & Finance II | CABF201 | 6 | 12 | | Exam |
| [C] | Business Information Systems II* | BSIS201 | 6 | 8 | Business Information Systems I (P) | Exam |
| SEMESTER 2 | | | | | | |
| [C] | Theory of Internal Auditing II | THIA201 | 6 | 8 | | Exam |
| [C] | Business Analysis IIB* | BSAB201 | 6 | 8 | Business Analysis IIA [E] | Exam |
| [C] | Applications Development IIB | APDB201 | 6 | 12 | Applications Development IIA [E] | Exam |
| [C] | Information Management IIB | INMB201 | 6 | 8 | Information Management IIA [E] | Exam |
| [C] | Business Analysis Project II* | BSAP201 | 6 | 12 | Business Analysis Project I (P) Business Information Systems II [E] | CA |
| [C] | IT project Management | ITPM101 | 6 | 12 | | Exam |

YEAR THREE - STUDY PERIOD THREE

| Core (C); Fundamental (F) Gen Edu. (GE) | Module Name | Module Code | NQF Level | Module credits | Pre-requisite (P) Co-requisite (C) Exposure (E) | Exam\ CA |
|--|---|----------------|--------------|-------------------|---|-------------|
| SEMESTER 1 | | | | | | |
| [C] | Business Analysis IIIA* | BSAA301 | 7 | 16 | Business Analysis IIA (P); BusinessAnalysis IIB (P) Business Analysis Project II [E] | Exam |
| [C] | Business Information Systems IIIA* | BISA301 | 7 | 16 | Business Information Systems II [P] | Exam |
| [C] | BusinessAnalysis Project IIIA* | BAPA301 | 6 | 16 | Business Analysis IIA [P]; BusinessAnalysis IIB [P]; Business Analysis Project II [P] | CA |
| [C] | Theory of ICT Professional Practice III | TIPP301 | 6 | 12 | | Exam |
| SEMESTER 2 | | | | | | |
| [GE] Fac. | Entrepreneurial Spirit | ENSP101 | 6 | 12 | Business Fundamentals I [P]; Business Fundamentals II [P] | CA |
| [C] | Business Analysis IIIB* | BSAB301 | 7 | 16 | Business Analysis IIIA [E] | Exam |
| [C] | BusinessInformation Systems IIIB* | BISB301 | 7 | 12 | Business Information Systems IIIA [E] | Exam |
| [C] | BusinessAnalysisProject IIIB* | BAPB301 | 6 | 20 | Business Analysis Project IIIA [E]; Business Analysis IIIA [E] | CA |

5.2. **QUALIFICATION NAME: BACHELOR OF INFORMATION AND COMMUNICATIONS TECHNOLOGY IN INTERNET OF THINGS (IOT)**

QUALIFICATION CODE: BICIOT

Note: * denotes Major module

| YEAR ONE - STUDY PERIOD ONE | | | | | | |
|--|--|------------------------|----------------------|---------------------------|--|---------------------|
| Core (C); Fundamental (F) Gen Edu. (GE) | Module Name | Module Code | NQF level | Module credits | Pre-requisite (P) Co-requisite (C) Exposure (E) | Exam\ CA |
| SEMESTER 1 | | | | | | |
| [F] | Engineering Mathematics 1A | ENMA101 | 5 | 12 | | Exam |
| [GE] | Information and Communication Technology Literacy and Skills | ICLK101 | 5 | 8 | | CA |
| [C] | Principles of Computer Composition | POCC101 | 5 | 8 | | Exam |
| [C] | Introduction to Programming | INPR101 | 5 | 8 | | Exam |
| [C] | Analog & Digital Circuits | AADC101 | 5 | 12 | | Exam |
| [C] | Introduction to Operating Systems | ITOS101 | 5 | 12 | | Exam |
| SEMESTER 2 | | | | | | |
| [F] | Engineering Mathematics 1B | ENMA102 | 5 | 12 | Engineering Mathematics 1A (P) | Exam |
| [C] | Basic Application of Artificial Intelligence | BAAI102 | 5 | 12 | | Exam |
| [C] | Sensor Principle and Technology | SPAT102 | 5 | 12 | | Exam |
| [GE] | Business Fundamentals 1 | BSFN102 | 6 | 12 | | CA |
| [GE] | Cornerstone | CSTN101 | 5 | 12 | | CA |

YEAR TWO - STUDY PERIOD TWO

| Core (C); Fundamental (F) Gen Edu. (GE) | Module Name | Module Code | NQF Level | Module credits | Pre-requisite (P) Co-requisite (C) Exposure (E) | Exam\ CA |
|--|--|----------------|--------------|-------------------|---|-------------|
| SEMESTER 1 | | | | | | |
| [C] | Programming Paradigms | PRPD201 | 6 | 12 | Introduction to Programming (P) | Exam |
| [C] | Embedded Micro-Controller Technology | EMCC201 | 6 | 12 | Analog & Digital Circuits (P) | Exam |
| [C] | IoT Identification Technology | ITIT201 | 6 | 8 | | Exam |
| [GE] | Business Fundamentals 2 | BSFN211 | 6 | 12 | Business Fundamentals 1 (P) | CA |
| [C] | Discrete Structures | DSST201 | 6 | 16 | | Exam |
| [GE] | Law for Life | LWLF101 | 6 | 8 | | CA |
| SEMESTER 2 | | | | | | |
| [C] | Web Development | WBDV202 | 6 | 12 | | Exam |
| [C] | Data Management | DTMG202 | 6 | 12 | | Exam |
| [C] | Introduction to Wireless Networking Technology | IWNT202 | 6 | 8 | | Exam |
| [C] | Mobile Operating System Technology and Application | MOSA202 | 6 | 12 | | Exam |
| [C] | Narrow Band - IoT | NBIT202 | 6 | 8 | IoT Identification Technology (P) | Exam |

YEAR THREE - STUDY PERIOD THREE

| Core (C); Fundamental (F) Gen Edu. (GE) | Module Name | Module Code | NQF level | Module credits | Pre-requisite (P) Co-requisite (C) Exposure (E) | Exam\ CA |
|--|---|----------------|--------------|-------------------|--|-------------|
| SEMESTER 1 | | | | | | |
| [C] | IoT Project Planning and Implementation | ITPI301 | 7 | 12 | | Exam |
| [C] | Business Process Engineering | BSPE301 | 7 | 12 | | Exam |
| [C] | Choose 1 elective | | | | | |
| [C] | Cloud Computing or | CLCM301 | 7 | 12 | | Exam |
| [C] | Mobile Development | MBDV301 | 7 | 12 | Programming Paradigms (P) | Exam |
| [C] | IoT Data Analysis | ITDA301 | 7 | 24 | IoT Identification Technology (P) | Exam |
| [C] | Research Skills | ITRS301 | 7 | 12 | | CA |
| SEMESTER 2 | | | | | | |
| [C] | IoT Project | IOTP302 | 7 | 36 | IoT Project Planning and Implementation (P) | CA |
| [GE] | Entrepreneurial Spirit | ENSP101 | 6 | 12 | Business Fundamentals 1 (P) Business Fundamentals 2 (P) | CA |
| [C] | IoT Security | IOTS302 | 7 | 12 | | CA |

5.3. QUALIFICATION NAME: DIPLOMA IN LIBRARY AND INFORMATION STUDIES
QUALIFICATION CODE: DILIS1

| YEAR ONE - STUDY PERIOD ONE | | | | | | |
|--|---|------------------------|----------------------|---------------------------|--|-----------------|
| Core (C); Fundamental (F) Gen Edu. (GE) | Module Name | Module Code | NQF level | Module credits | Pre-requisite (P) Co-requisite (C) Exposure (E) | Exam\ CA |
| SEMESTER 1 | | | | | | |
| [GE] | Business Fundamentals 1 | BSFD101 | 6 | 12 | | CA |
| [C] | Organisation and Representation of Information 1A | ORIA101 | 6 | 16 | | Exam |
| [F] | Communication in English 1 | CENL101 | 5 | 12 | | CA |
| [F] | isiZulu | CZUL101 | 5 | 12 | | Exam |
| [C] | Library and Information Practice 1 | LIPR101 | 5 | 16 | | Exam |
| SEMESTER 2 | | | | | | |
| [C] | Organisation and Representation of Information 1B | ORIB101 | 5 | 12 | | Exam |
| [C] | Integrated Human Studies | IHST101 | 5 | 12 | | Exam |
| [GE] | Introduction to Technopreneurship (Institutional) | ITCH101 | 5 | 8 | | CA |
| [C] | Information and Communications Technology 1 | ICTC101 | 6 | 16 | | Exam |
| [GE] | Cornerstone 101 | CSTN101 | 5 | 12 | | CA |

YEAR TWO - STUDY PERIOD TWO

| Core (C); Fundamental (F) Gen Edu. (GE) | Module Name | Module Code | NQF level | Module credits | Pre-requisite (P) Co-requisite (C) Exposure (E) | Exam\ CA |
|--|---|----------------|--------------|-------------------|--|-------------|
| SEMESTER 1 | | | | | | |
| [C] | Library and Information Practice 2 | LIPR201 | 6 | 12 | Library and Information Practice 1 (P) ; Information and Communication Technology 1 (P) AND Organisation and Representation of Information 1A & 1B (P) | Exam |
| [C] | Information and Communications Technology 2A | ICTA201 | 6 | 12 | Library and Information Practice 1 (P); Information and Communication Technology 1(P) AND Organisation and Representation of Information 1A & 1B (P) | Exam |
| [C] | Organisation and Representation of Information 2A | ORIA201 | 6 | 12 | Library and Information Practice 1(C); Information and Communications Technology 1(P) AND Organisation and Representation of Information 1A (P) & 1B (P) | Exam |
| [C] | User Studies | USRS101 | 6 | 16 | | Exam |
| [C] | Library and Information Professional Practice 1A | LPPA101 | 6 | 16 | Library and Information Practice 1 (P); Information and Communications Technology 1 (P) AND Organisation and Representation of Information 1A (P) & 1B (P) | CA |

SEMESTER 2

| | | | | | | |
|------|---|---------|---|----|--|------|
| [C] | Organisation and Representation of Information 2B | ORIB201 | 6 | 8 | Library and Information Practice 1(P); Information and Communications Technology 1(P) AND Organisation and Representation of Information 1A (P) & 1B (P) | Exam |
| [C] | Organisational and Social Psychology | ORSP101 | 6 | 12 | | Exam |
| [C] | Library Marketing and Promotion | LMKP101 | 6 | 12 | | CA |
| [C] | Library and Information Professional Practice 1B | LPPB101 | 6 | 12 | Library and Information Professional Practice 1A (P) | CA |
| [GE] | Business Fundamentals 2 | BSFD201 | 6 | 12 | Business Fundamentals 1 (P) | CA |
| [C] | Information and Communications Technology 2B | ICTB201 | 6 | 8 | Library and Information Practice 1 (P); Information and Communication Technology 1(P) AND Organisation and Representation of Information 1A (P) & 1B (P) | Exam |

YEAR THREE - STUDY PERIOD THREE

| Core (C); Fundamental (F) Gen Edu. (GE) | Module Name | Module Code | NQF level | Module credits | Pre-requisite (P) Co-requisite (C) Exposure (E) | Exam\ CA |
|--|---|----------------|--------------|-------------------|--|-------------|
| SEMESTER 1 | | | | | | |
| [C] | Library and Information Practice 3A | LIPA301 | 7 | 16 | Library and Information Practice 1(P); Organisation and Representation of Information 1A (P) & 1B; Information and Communication Technology 1 (P); Integrated Human Studies (P); Communication in English 1 (P); IsiZulu (P); Cornerstone 101(P); Introduction to Technopreneurship (P); Business Fundamentals 1(P); Library and Information Practice 2 (P); Information and Communication Technology 2A (P) & 2B (P); Information and Communication Technology 2B(P); Organisation and Representation of Information 2A (P) & 2B (P); User Studies (P); Organisational and Social Psychology (P); Library and Information Professional Practice 1A (P); Library and Information Professional Practice 1B (P); Business Fundamentals 2 (P) | Exam |
| [C] | Organisation and Representation of Information 3A | ORIA301 | 7 | 8 | Library and Information Practice 1(P); Organisation and Representation of Information 1A | Exam |

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|--|--|--|--|--|---|--|
| | | | | | <p>(P) & 1B; Information and Communication Technology 1 (P); Integrated Human Studies (P); Communication in English 1 (P); IsiZulu (P); Cornerstone 101(P); Introduction to Technopreneurship (P); Business Fundamentals 1(P); Library and Information Practice 2 (P); Information and Communication Technology 2A (P) & 2B (P); Information and Communication Technology 2B (P); Organisation and Representation of Information 2A (P) & 2B (P); User Studies (P); Organisational and Social Psychology (P); Library and Information Professional Practice 1A (P); Library and Information Professional Practice 1B (P); Business Fundamentals 2 (P)</p> | |
|--|--|--|--|--|---|--|

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|-----|--|---------|---|----|--|------|
| [C] | Information and Communications Technology 3A | ICTA301 | 6 | 12 | Library and Information Practice 1(P); Organisation and Representation of Information 1A (P) & 1B; Information and Communication Technology 1 (P); Integrated Human Studies (P); Communication in English 1 (P); IsiZulu (P); Cornerstone 101(P); Introduction to Technopreneurship (P); Business Fundamentals 1(P); Library and Information Practice 2 (P); Information and Communication Technology 2A (P) & 2B (P); Information and Communication Technology 2B(P); Organisation and Representation of Information 2A (P) & 2B (P); User Studies (P); Organisational and Social Psychology (P); Library and Information Professional Practice 1A (P); Library and Information Professional Practice 1B (P); Business Fundamentals 2 (P) | Exam |
|-----|--|---------|---|----|--|------|

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|------|--|---------|---|----|--|------|
| [C] | Library and Information Professional Practice 2A | LPPA201 | 6 | 16 | Library and Information Practice 1(P); Organisation and Representation of Information 1A (P) & 1B; Information and Communication Technology 1 (P); Integrated Human Studies (P); Communication in English 1 (P); IsiZulu (P); Cornerstone 101(P); Introduction to Technopreneurship (P); Business Fundamentals 1(P); Library and Information Practice 2 (P); Information and Communication Technology 2A (P) & 2B (P); Information and Communication Technology 2B(P); Organisation and Representation of Information 2A (P) & 2B (P); User Studies (P); Organisational and Social Psychology (P); Library and Information Professional Practice 1A (P); Library and Information Professional Practice 1B (P); Business Fundamentals 2 (P) | Exam |
| [GE] | Community Engagement | CENG101 | 6 | 8 | | CA |

SEMESTER 2

| | | | | | | |
|-----|-------------------------------------|---------|---|---|---|------|
| [C] | Library and Information Practice 3B | LIPB301 | 7 | 8 | <p>Library and Information Practice 1(P); Organisation and Representation of Information 1A (P) & 1B; Information and Communication Technology 1 (P); Integrated Human Studies (P); Communication in English 1 (P); IsiZulu (P);</p> <p>Cornerstone 101(P); Introduction to Technopreneurship (P); Business Fundamentals 1(P); Library and Information Practice 2 (P); Information and Communication Technology 2A (P) & 2B (P); Information and Communication Technology 2B (P); Organisation and Representation of Information 2A (P) & 2B (P); User Studies (P); Organisational and Social Psychology (P); Library and Information Professional Practice 1A (P); Library and Information Professional Practice 1B (P); Business Fundamentals 2 (P)</p> | Exam |
|-----|-------------------------------------|---------|---|---|---|------|

| | | | | | | |
|-----|---|---------|---|----|--|------|
| [C] | Organisation and Representation of Information 3B | ORIB301 | 7 | 12 | <p>Library and Information Practice 1(P); Organisation and Representation of Information 1A (P) & 1B; Information and Communication Technology 1 (P); Integrated Human Studies (P); Communication in English 1 (P); IsiZulu (P); Cornerstone 101(P); Introduction to Technopreneurship (P); Business Fundamentals 1(P); Library and Information Practice 2 (P); Information and Communication Technology 2A (P) & 2B (P); Information and Communication Technology 2B (P); Organisation and Representation of Information 2A (P) & 2B (P); User Studies (P); Organisational and Social Psychology (P); Library and Information Professional Practice 1A (P); Library and Information Professional Practice 1B (P); Business Fundamentals 2 (P)</p> | Exam |
|-----|---|---------|---|----|--|------|

| | | | | | | |
|-----|--|---------|---|----|---|------|
| [C] | Information and Communications Technology 3B | ICTB301 | 6 | 12 | Library and Information Practice 1(P); Organisation and Representation of Information 1A (P) & 1B; Information and Communication Technology 1 (P); Integrated Human Studies (P); Communication in English 1 (P); IsiZulu (P); Cornerstone 101(P); Introduction to Technopreneurship (P); Business Fundamentals 1(P); Library and Information Practice 2 (P); Information and Communication Technology 2A (P) & 2B (P); Information and Communication Technology 2B (P); Organisation and Representation of Information 2A (P) & 2B (P); User Studies (P); Organisational and Social Psychology (P); Library and Information Professional Practice 1A (P); Library and Information Professional Practice 1B (P); Business Fundamentals 2 (P) | Exam |
| [C] | Library and Information Professional Practice 2B | LPPB201 | 6 | 16 | Library and Information Practice 1(P); Organisation and Representation of Information 1A (P) & 1B; Information and Communication | CA |

| | | | | | | |
|------|--------------------------------------|---------|---|----|---|----|
| | | | | | <p>Technology 1 (P); Integrated Human Studies (P); Communication in English 1 (P); IsiZulu (P); Cornerstone 101(P); Introduction to Technopreneurship (P); Business Fundamentals 1(P); Library and Information Practice 2 (P); Information and Communication Technology 2A (P) & 2B (P); Information and Communication Technology 2B (P); Organisation and Representation of Information 2A (P) & 2B (P); User Studies (P); Organisational and Social Psychology (P); Library and Information Professional Practice 1A (P); Library and Information Professional Practice 1B (P); Business Fundamentals 2 (P)</p> | |
| [GE] | Innovation and Emerging Technologies | INET101 | 6 | 12 | | CA |

**5.4. QUALIFICATION NAME: ADVANCED DIPLOMA IN
LIBRARY AND INFORMATION SCIENCE
QUALIFICATION CODE: ADLIS1**

| YEAR ONE - STUDY PERIOD ONE | | | | | | |
|--|--|------------------------|----------------------|---------------------------|--|---------------------|
| Core (C); Fundamental (F) Gen Edu. (GE) | Module Name | Module Code | NQF level | Module credits | Pre-requisite (P) Co-requisite (C) Exposure (E) | Exam\ CA |
| SEMESTER 1 | | | | | | |
| [C] | Information and Communication Technology 4 | INCT401 | 7 | 12 | | Exam |
| [C] | Organization & Representation of Information 4 | OROI401 | 7 | 16 | | Exam |
| [C] | Records Management | RMAN401 | 7 | 16 | | Exam |
| [C] | Preservation and Conservation in Libraries | PACL401 | 7 | 16 | | Exam |
| SEMESTER 2 | | | | | | |
| [C] | Advanced Literature Studies | ADLS401 | 7 | 16 | | Exam |
| [C] | Digitization in Libraries | DILI401 | 7 | 16 | | Exam |
| [C] | Knowledge Management | KNMA401 | 7 | 12 | | Exam |
| [C] | Research Methodology | RMHD401 | 7 | 16 | | Exam |

**5.5. QUALIFICATION NAME: POSTGRADUATE DIPLOMA
IN LIBRARY AND INFORMATION SCIENCE
QUALIFICATION CODE: PGDLIS**

| YEAR ONE - STUDY PERIOD ONE | | | | | | |
|--|--|------------------------|----------------------|---------------------------|--|---------------------|
| Core (C); Fundamental (F) Gen Edu. (GE) | Module Name | Module Code | NQF level | Module credits | Pre-requisite (P) Co-requisite (C) Exposure (E) | Exam\ CA |
| SEMESTER 1 | | | | | | |
| [C] | Advanced Research Methodology | ARML801 | 8 | 24 | | Exam |
| [C] | Advanced Library and Information Practice | ALIP801 | 8 | 20 | | Exam |
| [C] | Advanced Knowledge Management | AVKM802 | 8 | 24 | | Exam |
| SEMESTER 2 | | | | | | |
| [C] | Research Project | RIPL802 | 8 | 32 | | Exam |
| [C] | Advanced User Studies | AVUS801 | 8 | 20 | | Exam |

6. DEPARTMENT SPECIFIC REGISTRATION RULES

Progression Rules

Diploma in Information and Communication Technology in Business Analysis (DIIBA1)

In addition to General Rules G14, G16, G17 and G21(b) the student shall pass and accumulate the minimum number of credits at the end of each year, as indicated in the table below. This gives the student five years to complete the three-year qualification without intervention. Should a student not achieve the minimum credit indicated in the table below, he/she will not be permitted to register in the subsequent year.

| END OF YEAR | MINIMUM CREDITS |
|-------------|-----------------|
| 1 | 50 |
| 2 | 120 |
| 3 | 200 |
| 4 | 280 |

For DIIBA1: A student will be able to register for third-year modules if they have passed all first-year majors (2), and 2 out of 4 second-year majors.

Bachelor of Information and Communications Technology in Internet of Things (IoT)

In addition to Rules G14, G16, G17 and G23(b) the student shall pass and accumulate the minimum number of credits at the end of each year of registration, as indicated in the table below. This gives the student five years to complete the three-year qualification without intervention. Should a student not achieve the minimum credit indicated in the table below, he/she will not be permitted to register in the subsequent year.

| END OF YEAR | MINIMUM CREDITS |
|-------------|-----------------|
| 1 | 60 |
| 2 | 120 |
| 3 | 200 |
| 4 | 260 |

7. MODULE CONTENT

Students must read this section in conjunction with the relevant module guides.

7.1 DIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY IN BUSINESS ANALYSIS (DIIBA1)

| MODULE CODE | MODULE NAMES | NQF LEVEL\ CREDITS |
|--------------------|--|---------------------------|
| APDA101 | Applications Development IA Introduce students to programming concepts that will enable them to implement a solution to a problem using a current/relevant programming paradigm. | NQF: 5 CREDITS: 12 |
| APDA201 | Applications Development 2A To design web applications using a current development methodology and tools | NQF: 6 CREDITS:12 |
| APDB101 | Applications Development 1B To develop, debug and deploy applications using the advanced concepts of the chosen programming paradigm. | NQF: 5 CREDITS:12 |
| APDB201 | Applications Development 2B To design and deploy robust applications using advanced concepts in a current methodology. | NQF: 6 CREDITS: 12 |
| BAPA301 | Business Analysis Project 3A To complete a research-based project proposal for an industry-based problem in Kwa-Zulu Natal (KZN) | NQF: 6 CREDITS: 16 |
| BAPB301 | Business Analysis Project 3B To complete a research-based project for an industry-based problem in Kwa-Zulu Natal (KZN) | NQF:6 CREDITS: 20 |

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| BFND101 | Business Fundamentals I <p style="text-align: right;">NQF: 5 CREDITS: 12</p> <p>This module is designed to introduce students to basic business numeracy concepts and to develop critical skills required for effective business communication</p> |
| BFND201 | Business Fundamentals 2 <p style="text-align: right;">NQF: 6 CREDITS: 12</p> <p>To develop research skills that will cultivate in FAI students an awareness of the environment and the ability to adopt sustainable business practices. It will also expose students to core elements of the business plan while managing professional and academic life within a diverse and technologically advanced society.</p> |
| BISA301 | Business Info Systems 3A <p style="text-align: right;">NQF: 7 CREDITS: 16</p> <p>Make students aware of the issues involved with the management of an Information System within an organization.</p> |
| BISB301 | Business Information System 3B <p style="text-align: right;">NQF: 7 CREDITS: 12</p> <p>To provide information of how a management information system supports the functioning of a business</p> |
| BSAA201 | Business Analysis 2A <p style="text-align: right;">NQF: 6 CREDITS: 8</p> <p>To teach students how to analyze financial statements which is a basis for Business Analysis.</p> |
| BSAA301 | Business Analysis 3A <p style="text-align: right;">NQF: 7 CREDITS: 16</p> <p>To allow students to use Business Analysis tools and methodologies to produce a business case for a business problem.</p> |
| BSAB201 | Business Analysis 2B <p style="text-align: right;">NQF: 6 CREDITS: 8</p> <p>To provide students with Business Analysis tools and methodologies to solve business related problems</p> |
| BSAB301 | Business Analysis 3B <p style="text-align: right;">NQF: 7 CREDITS: 16</p> <p>Ability to solve business problems using an ERP software tool</p> |

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| BSAP101 | Business Analysis Project 1 To develop and present a detailed business plan for a new/existing business in Kwa-Zulu Natal (KZN) | NQF: 5 CREDITS:16 |
| BSAP201 | Business Analysis Project 2 To complete a research based project using a case study from industries in Kwazulu Natal to deliver detailed requirements for a business solution | NQF: 6 CREDITS: 12 |
| BSIS101 | Business Information Systems 1 To introduce students to the basic concepts of Business Information Systems (BIS) and focus on the technology that forms BIS | NQF: 5 CREDITS:12 |
| BSIS201 | Business Information Systems 2 To provide students with an understanding of how a Business Information System (BIS) is acquired and built | NQF: 6 CREDITS: 8 |
| CABF201 | Comp Apps in Bus & Finance 2 To introduce students to computer applications that are currently used as solutions in business and finance for Small, Medium and Micro Enterprises (SMME's). | NQF: 6 CREDITS:12 |
| CSTN101 | Cornerstone 101 The purpose of this module is to induct students into the community of higher education, with values and practices that promote self-awareness, social justice and environmental awareness. | NQF: 5 CREDITS: 12 |
| ENSP101 | Entrepreneurial Spirit To enhance the spirit of creativity/innovation, inter-disciplinary teamwork, project management, and research in the creation of entrepreneurial artefacts that address current social and economic issues. | NQF: 6 CREDITS: 12 |
| FCSC101 | Fundamentals of Comp Security To introduce students to the threats associated with the use of computers and to equip them with security measures to combat these threats | NQF: 5 CREDITS: 8 |

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| FINA101 | <p>Financial Accounting 1</p> <p style="text-align: right;">NQF: 5 CREDITS:12</p> <p>To introduce students to financial statements in accounting to improve their understanding of business processes.</p> |
| ICTL101 | <p>Info & Comm Tech Lit & Skills</p> <p style="text-align: right;">NQF: 5 CREDITS: 8</p> <p>The purpose of this module is to equip students with the skills and knowledge needed for an effective and innovative use of Information and Communication Technologies in their academic, professional, and personal activities.</p> |
| INMA201 | <p>Information Management 2A</p> <p style="text-align: right;">NQF: 6 CREDITS: 8</p> <p>To provide students with a sound theoretical and practical knowledge of designing databases</p> |
| INMB201 | <p>Information Management 2B</p> <p style="text-align: right;">NQF: 6 CREDITS: 8</p> <p>To provide students with advanced theoretical and practical knowledge to implement and manage databases.</p> |
| ITPM101 | <p>IT Project Management</p> <p style="text-align: right;">NQF: 6 CREDITS:12</p> <p>To equip students with the project management skills and methodology when completing a project</p> |
| LWLF101 | <p>Law for Life</p> <p style="text-align: right;">NQF: 5 CREDITS: 8</p> <p>The aim of this module is to make the law relevant to everyday life. It is based on the idea of combining theory and practice. In each section an everyday life experiences will be introduced and discussed. Subject specific terminology will be explained and an understanding of key concepts will be developed. Each scenario will include a focus on the development of skills by developing the student's capacity for research, independent critical thinking and debate.</p> |
| MWMU101 | <p>Me, My World, My Universe</p> <p style="text-align: right;">NQF: 5 CREDITS: 8</p> <p>The module inducts students at level 5 across all Programmes into the awareness of the role of quantitative reasoning in critical, insightful and meaningful reasoning applied to self, world and universe. The module is designed to enable learners in a quantitative and data-dense world to extend and develop their ability to solve quantitative problems, understand and construct valid arguments supported by quantitative evidence and analysis, and to communicate arguments in a variety of</p> |

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| | appropriate mathematical and verbal formats. 3. The module will contribute to the development of “knowledge, attitudes and values” within the themes indicated thereby contributing to the purpose of General Education. |
| THIA201 | Theory of Internal Auditing 2 To provide students with a specialist interest in governance, risk and control issues for organizations the professional competence required of internal auditors. NQF: 6 CREDITS: 8 |
| TIPP301 | Theory of ICT Prof Practice 3 An understanding of how the ICT practitioner functions in the work place NQF: 6 CREDITS: 12 |

7.2. BACHELOR OF INFORMATION AND COMMUNICATIONS TECHNOLOGY IN INTERNET OF THINGS (BICIOT)

| MODULE CODE | MODULE NAMES | NQF LEVEL\ CREDITS |
|--------------------|---|---------------------------|
| AADC101 | Analog & Digital Circuits To introduce the fundamentals of analogue electronics and basic circuit design. | NQF: 5 CREDITS:12 |
| BAAI101 | Basic Application of Artificial Intelligence To provide a basic understanding of artificial intelligence and its role in business. | NQF: 5 CREDITS: 12 |
| BSFN102 | Business Fundamentals I To develop critical skills required for effective business communication and business numeracy concepts. | NQF: 6 CREDITS: 12 |
| BSFN211 | Business Fundamentals II To develop research skills that will cultivate in FAI students an awareness of the environment and the ability to adopt sustainable business practices | NQF: 6 CREDITS: 12 |

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| BSPE301 | Business Process Engineering To apply the concept, methodologies, models, and tools needed for business process re-engineering, management techniques and solutions of Enterprise resource planning. | NQF: 7 CREDITS:12 |
| CLCM301 | Cloud Computing Build secure cloud-based applications using SQL Databases | NQF: 7 CREDITS:12 |
| CSTN101 | Cornerstone 101 To participate in the community of higher education, with values and practices that promote self-awareness, social justice and environmental awareness. | NQF: 5 CREDITS: 12 |
| DSST201 | Discrete Structures The purpose of this module is to provide its students with the ability to construct a fundamental and basic understanding of set theories in relation to the integer system. | NQF: 6 CREDITS: 16 |
| DTMG202 | Data Management To construct a clear understanding of data and information storage, data modelling, storage, analysis and presentation of big data. processing and management concepts. | NQF: 6 CREDITS:12 |
| EMCC201 | Embedded Micro-Controller Technology To demonstrate the ability to understand Kernel architecture, to Install, and configure various function modules of the Huawei LiteOS, SDK. | NQF: 6 CREDITS: 12 |
| ENMA101 | Engineering Mathematics 1A To think and reason mathematically, pose and solve mathematical problems, model mathematically, represent mathematical entities, handle mathematical symbols and formalism. | NQF: 5 CREDITS: 12 |
| ENMA102 | Engineering Mathematics 1B To apply mathematical concepts to analyze and solve ICT-related problems. | NQF: 5 CREDITS: 12 |

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| ENSP101 | <p>Entrepreneurial Spirit</p> <p style="text-align: right;">NQF: 6 CREDITS: 12</p> <p>To enhance the spirit of creativity/innovation, inter-disciplinary teamwork, project management, and research in the creation of entrepreneurial artefacts that address current social and economic issues.</p> |
| ICLK101 | <p>Information and Communication Technology Literacy and Skills</p> <p style="text-align: right;">NQF: 5 CREDITS: 8</p> <p>To understand the overview of ICTs Hardware, Software, Users Internet Search; Word Processing; Spreadsheets; Presentations; Referencing; Security, Legal, Ethical, and Societal Issues & Economics of ICTs.</p> |
| INPR101 | <p>Introduction to Programming</p> <p style="text-align: right;">NQF: 5 CREDITS:</p> <p>To construct a computer program using a 3GL programming language.</p> |
| IOTP302 | <p>IoT Project</p> <p style="text-align: right;">NQF: 7 CREDITS: 36</p> <p>To develop a solution for a real-world problem using ICT and IoT.</p> |
| IOTS302 | <p>IoT Security</p> <p style="text-align: right;">NQF: 7 CREDITS:12</p> <p>To apply information security techniques in a computing application.</p> |
| ITDA301 | <p>IoT Data Analysis</p> <p style="text-align: right;">NQF: 7 CREDITS: 24</p> <p>To develop the processing techniques for IoT data analytics software tools.</p> |
| ITIT201 | <p>IoT Identification Technology</p> <p style="text-align: right;">NQF: 6 CREDITS: 8</p> <p>To demonstrate the use of automatic recognition technology in the design of an IoT application</p> |
| ITOS101 | <p>Introduction to Operating Systems</p> <p style="text-align: right;">NQF: 5 CREDITS :12</p> <p>To fully understand the characteristics of the linux operating system with network configuration.</p> |

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| ITPI301 | IoT Project Planning and Implementation To use appropriate project management tools, techniques and methodologies in managing an IoT project | NQF: 7 CREDITS:12 |
| ITRS301 | Research Skills To develop skills to conduct academic research within the field of ICT | NQF:7 CREDITS:12 |
| IWNT202 | Introduction to Wireless Networking Technology To develop the overview of wireless AD hoc networks, mobility management, topology discovery and communication network perception | NQF: 6 CREDITS: 8 |
| LWLF101 | Law for Life To learn the law relevant to everyday life. | NQF: 6 CREDITS: 8 |
| MBDV301 | Mobile Development To provide students with basic skills necessary to develop a mobile application | NQF: 7 CREDITS:12 |
| MOSA202 | Mobile Operating System Technology and Application To identify the components of a mobile operating system and describe their role in the execution of a mobile application. | NQF: 6 CREDITS:12 |
| NBIT202 | Narrow Band - IoT To describe the components of an NB-IoT system and to use AT commands for communication between the terminal and platform. | NQF: 6 CREDITS: 8 |
| POCC101 | Principles of Computer Composition To identify the hardware and software components of a computer and describe how they relate to each other. | NQF: 5 CREDITS:8 |
| PRPD201 | Programming Paradigms To develop an understanding of the different programming paradigms used in software development. | NQF: 6 CREDITS:12 |

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| SPAT102 | Sensor Principle and Technology To understand and master the design of sensor application circuit, sensor interface technology and sensor comprehensive testing | NQF: 5 CREDITS:12 |
| WBDV202 | Web Development To create websites and webpages. Mastering the design of web applications | NQF: 6 CREDITS: 12 |

7.3. DIPLOMA IN LIBRARY AND INFORMATION STUDIES (DILIS1)

| MODULE CODE | MODULE NAMES | NQF LEVEL \ CREDITS |
|--------------------|---|----------------------------|
| BSFD101 | Business Fundamentals 1 (FGE) This module is designed to introduce students to basic business numeracy concepts and to develop critical skills required for effective business communication. | NQF: 6 CREDITS:12 |
| BSFD201 | Business Fundamentals 2 (FGE) To develop research skills that will cultivate in FAI students an awareness of the environment and the ability to adopt sustainable business practices. It will also expose students to core elements of the business plan while managing professional and academic life within a diverse and technologically advanced society. | NQF: 6 CREDITS: 12 |
| CENG101 | Community engagement (IGE) To cultivate social responsibility by engaging students in the planning, implementation and evaluation of a community engagement project. | NQF: 6 CREDITS: 8 |
| CENL101 | Communication in English Development of the five critical Communication Skills: Listening, Thinking, Reading, Writing and Speaking | NQF:5 CREDITS:12 |

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| CSTN101 | <p>Cornerstone 101 (IGE)</p> <p style="text-align: right;">NQF: 5 CREDITS:12</p> <p>The purpose of this module is to induct students into the community of higher education, with values and practices that promote self-awareness, social justice and environmental sustainability</p> |
| CZUL101 | <p>Communication in Zulu or Communication</p> <p style="text-align: right;">NQF: 5 CREDITS: 12</p> <p>Izincwadi (Literature).Imibhalo ecabangisayo (Creative writing).Uhlelo Lolimi (Grammatical Aspects of Language).Ubuciko Bomlomo (Folklore).Incazelo-magama (Semantics).Izingcezu Zenkulumo (Parts of Speech).</p> |
| ICTA201 | <p>Information and Communications Technology 2A</p> <p style="text-align: right;">NQF:6 CREDITS:12</p> <p>The purpose of this module is to provide learning opportunities so that the learner's competencies established in the second year of Library and Information Technology is harnessed and applied within the contexts of computer systems, databases, telecommunications and networks, the Internet and ICT's in library and information providing agencies.</p> |
| ICTA301 | <p>Information and Communications Technology 3A</p> <p style="text-align: right;">NQF: 7 CREDITS:12</p> <p>Historical development of digital libraries. Strategic management of digital libraries. Hardware and software used in digital libraries.</p> |
| ICTB201 | <p>Information and Communications Technology 2B</p> <p style="text-align: right;">NQF:6 CREDITS: 8</p> <p>The purpose of this module is to provide learning opportunities so that the learner's competencies established in the second year: Semester 2 of Library and Information Technology 2 is harnessed and applied within the contexts of computer systems, computer crime, telecommunications and networks, the Internet and ICT's in library and information providing agencies.</p> |
| ICTB301 | <p>Information and Communications Technology 3B</p> <p style="text-align: right;">NQF: 6 CREDITS: 12</p> <p>Legislation impacting on digital libraries. Designing digital libraries for optimum use.Promotion of and fundraising for digital libraries.</p> |
| ICTB301 | <p>Organization and representation of information 3B</p> <p style="text-align: right;">NQF: 6 CREDITS: 12</p> <p>This module is intended for staff employed in information-supplying agencies or services. Persons completing this module will be competent at applying information organization, information retrieval and information dissemination strategies effectively and consistently in the process of managing the provision of an information service in response to a specific user population's needs.</p> |

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| ICTC101 | <p>Information and Communications Technology 1</p> <p style="text-align: right;">NQF: 5 CREDITS:16</p> <p>The purpose of the module is to equip students with the competence to apply their knowledge of information and communication technologies in different contexts in the library and information sector. Further, the purpose is to learn to interpret, evaluate and apply the concepts, principles of operation, uses and latest trends of information and communication technologies, and indicates its influence on society.</p> |
| IHST101 | <p>Integrated Human Studies</p> <p style="text-align: right;">NQF: 5 CREDITS:12</p> <p>This module is intended to introduce students to general education in various disciplines or fields of study. The successful completion of this instructional offering equips students with the necessary knowledge to organize information in order to provide an effective basic information service. Knowledge gained from this module will assist students in the classification of materials as well as in the providing a reference service</p> |
| INET101 | <p>ICT Innovation and Emerging Technologies (FGE)</p> <p style="text-align: right;">NQF: 6 CREDITS: 12</p> <p>To familiarise students with the current and future communications technologies and trends in ICT so that they are kept abreast of the developments in the ICT industry</p> |
| ITCH101 | <p>Introduction to Technopreneurship (IGE)</p> <p style="text-align: right;">NQF:5 CREDITS: 8</p> <p>Students will be exposed to the excitement of potentially starting their own technically related businesses, and will be able to explain the difference between small business and entrepreneurship. The current SA need for SMMEs, and the related supporting organisations will be introduced. The module scope is designed to provide breadth rather than depth. Students would be advised to seek the depth necessary for the success of their potential small businesses in subsequent modules.</p> |
| LIPA301 | <p>Library and information practice 3A</p> <p style="text-align: right;">NQF: 7 CREDITS: 16</p> <p>Library and Information Practice 3 A introduces students to research methodology as well management principles including financial control.</p> |
| LIPB301 | <p>Library and information practice 3B</p> <p style="text-align: right;">NQF: 7 CREDITS: 8</p> <p>Library and Information Practice 3 B introduces students to readership so that they are able to contribute to the provision of information services in a wide range of contexts in the field.</p> |

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| LIPR101 | <p>Library and Information Practice 1</p> <p style="text-align: right;">NQF: 5 CREDITS:16</p> <p>Provides a knowledge base of the wide range of library and Information agencies and the services offered by these agencies and enables students to understand the library and information profession and become familiar with the legislation affecting the provision of library and information services.</p> |
| LIPR201 | <p>Library and Information Practice 2</p> <p style="text-align: right;">NQF:6 CREDITS:12</p> <p>The instructional offering Library and Information Practice 2 provides the learner with theoretical knowledge of technical and user services in libraries.</p> |
| LMPK101 | <p>Library Marketing and Promotion</p> <p style="text-align: right;">NQF: 6 CREDITS: 12</p> <p>The purpose of this module is intended for support staff employed in information supplying agencies or services. Persons achieving this qualification will be competent at applying information organisation, information retrieval and information dissemination strategies effectively and consistently in the process of providing an information service to a general user population. The purpose of the instructional offering Library Promotion specifically, is that it is intended to allow learners to develop appropriate knowledge and skills that will enable them to assist in promoting library services.</p> |
| LPPA101 | <p>Library and Information Professional Practice 1A</p> <p style="text-align: right;">NQF: 6 CREDITS:16</p> <p>Prepare students for Public library work environment. Communication skills (oral and written). Behaviour and dress code in the work place.</p> |
| LPPA201 | <p>Library and Information Professional Practice 2A</p> <p style="text-align: right;">NQF: 6 CREDITS: 16</p> <p>Library and Information Professional Practice 2B aims to place students within a variety library and information providing agencies for work integrated learning.</p> |
| LPPB101 | <p>Library and Information Professional Practice 1B</p> <p style="text-align: right;">NQF: 6 CREDITS: 12</p> <p>This module provides the learner with the opportunity to apply their theoretical knowledge and in the process acquire the skills and attitudes necessary for working in an information environment.</p> |
| LPPB201 | <p>Library and Information Professional Practice 2B</p> <p style="text-align: right;">NQF: 6 CREDITS:16</p> <p>Work integrated learning (WIL) Placements in academic or special information providing agencies. Writing and presentation of a WIL reflective essay.</p> |
| ORIA101 | <p>Organization and representation of information 1A</p> <p style="text-align: right;">NQF: 6 CREDITS:16</p> |

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| | <p>The module offering Organisation and Representation of Information 1A introduces students to basic information organisation for retrieval purposes. This module provides students with the theoretical knowledge and practical skills needed in the organisation and retrieval of information in a wide variety of information providing agencies.</p> |
| ORIA201 | <p>Organization and Representation of Information 2A NQF: 6 CREDITS: 12</p> <p>This is a major subject and allows students to have an in-depth knowledge of core library technical functions (theory and practical). Students will be able to analyze the subject content of an item, understand authority control, catalogue, and classify different formats of information resources.</p> |
| ORIA301 | <p>Organization and Representation of information 3A NQF:6 CREDITS:12</p> <p>Provide appropriate information in line with users' needs; Employ different search strategies to retrieve relevant information for users; and Bibliographic control</p> |
| ORIB101 | <p>Organization and representation of information 1B NQF: 5 CREDITS: 12</p> <p>Introduction to classification and the DDC. Introduction and application of MARC21 Information sources in information providing agencies. The reference interview</p> |
| ORIB201 | <p>Organization and Representation of Information 2B NQF: 6 CREDITS: 8</p> <p>This is a major subject and allows students to have an in-depth knowledge of core library technical functions (theory and practical). Students will be able to catalogue, classify, assign subject headings and indexing terms and write abstracts</p> |
| ORSP101 | <p>Organizational and Social Psychology NQF: 6 CREDITS: 12</p> <p>This is an auxiliary subject that prepares students for the library as a workplace. The indicative content includes: Schools of thought, personality, communication in the workplace, motivation, culture and religion, attitudes and values in the workplace, conflict in the workplace, stress in the workplace, work ethics</p> |
| USRS101 | <p>User Studies NQF: 6 CREDITS:16</p> <p>The purpose of literature studies is to introduce students to the appreciation of a variety of literature genres available in a large public library and to introduce them to activities designed to promote reading to children</p> |

7.4. ADVANCED DIPLOMA IN LIBRARY AND INFORMATION SCIENCE (ADLIS1)

| MODULE CODE | MODULE NAMES | NQF LEVEL \ CREDITS |
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| ADLS401 | Advanced Literature Studies The purpose of this module is to provide its students with the ability to develop an understanding of literature in public libraries for children and young adults. | NQF: 7 CREDITS: 16 |
| DILI401 | Digitization in libraries The purpose of this module is to provide its students with the ability to construct a clear understanding of digitization of library collections | NQF: 7 CREDITS: 16 |
| INCT401 | Information and Communication Technologies 4 The purpose of this module is to equip students with the skills and knowledge to make appropriate decisions in using information and communication technologies effectively and efficiently for managing information. | NQF: 7 CREDITS: 12 |
| KNMA401 | Knowledge Management The purpose of this module is to provide students with relevant knowledge management principles so that they are able to create, share, use and manage information and knowledge within an organization. | NQF: 7 CREDITS: 12 |
| OROI401 | Organization and Representation of Information 4 Persons completing this module will be competent in indexing, abstracting and constructing thesaurus. | NQF: 7 CREDITS: 16 |
| PACL401 | Preservation and Conservation in Libraries The purpose of this module is to provide its students with the ability to conceptualize the preservation and conservation in libraries | NQF: 7 CREDITS: 16 |

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| RMAN401 | Records Management The purpose of this module is to provide its students with the ability to master the concepts of managing records in library and information providing agencies | NQF: 7 CREDITS: 16 |
| RMHD401 | Research Methodology The purpose of this module is to provide its students with research methodology theory to enable them to undertake basic research in various information and knowledge environments. | NQF: 7 CREDITS: 16 |

7.5. POSTGRADUATE DIPLOMA IN LIBRARY AND INFORMATION SCIENCE (PGDLIS)

| MODULE CODE | MODULE NAMES | NQF LEVEL \ CREDITS |
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| ALIP801 | Advanced Library and Information Practice 4 This module prepares students for higher-level managerial posts in libraries and information-supplying agencies. The qualifying student will be able to manage staff in response to the specific needs of the personnel and functions within an LIS environment. What is strategic management? · Types of strategic planning · The process · SWOT Analysis · PEST Analysis · Scenario planning · Porter five forces analysis · Growth-share matrix · Balanced scorecards and strategy maps · Responsive evaluation · Importance and need for strategic planning · Drawing up a strategic plan | NQF: 8 CREDITS: 12 |
| AVKM801 | Advanced Knowledge Management This module prepares students for effectively managing the creation, interpretation, analysis and application of knowledge within a library and information services context | NQF: 8 CREDITS: 24 |
| ARML801 | Advanced Research Methodology The purpose of this module is to provide students with advanced research methodology theory and help develop corresponding analytical skills to enable them to undertake research in various information and knowledge environments. | NQF: 8 CREDITS: 24 |

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| AVUS801 | Advanced User Studies <p style="text-align: right;">NQF: 8 CREDITS: 20</p> <p>The purpose of this module is to provide students with integrated theoretical knowledge and applications thereof on user needs and service delivery to varied library users.</p> |
| RPLI802 | Research Project <p style="text-align: right;">NQF: 8 CREDITS: 32</p> <p>This module builds on the skills acquired in the Advanced Research Methodology module and requires students to embark on independent, in-depth research that demonstrates a high level of competence. The student will prepare a formal report for the project that will be assessed for its relevance and extent to which it shows the student's grasp of research methodology in library and information science.</p> |

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