Overview and Programme Structure

The Bachelor of ICT generally adheres to the following structure and allows full year and mid-year intakes (full-time programme of study will require four papers to be taken in each semester – with the exception of semester two in Year Three):

|  |  |
| --- | --- |
| **Level 5** | * Eight compulsory 15 credit courses (i.e. a common first year) |
| **Level 6** | * One compulsory 15 credit course (I202 IT Project Management) * Three 15 credit elective courses relating to the chosen Major * Four 15 credit non-Major electives |
| **Level 7** | * One compulsory 15 credit course (I301 Professional Practice) * One compulsory 45 credit course (I302 Industry Project) relating to Major * Two 15 credit elective courses relating to the chosen Major * Two 15 credit non-Major electives |

Compulsory courses highlighted in green, all courses 15 credits except the 45 credit I302

|  |  |  |
| --- | --- | --- |
| ***Year 1 (Level 5)*** | D101 Programming Fundamentals | I111 Web Fundamentals |
| D111 Data Fundamentals | I121 Systems Analysis Fundamentals |
| I101 Information Systems Fundamentals | T101 Network Fundamentals |
| I102 Technical Support Fundamentals | T111 Computer Fundamentals |
| ***Year 2 (Level 6)*** | I202 IT Project Management | I212 Enterprise Data Management |
| D211 Database Development | I213 Dynamic Web Solutions |
| I221 Analysis and Design | T201 Network Services |
| D201 Advanced Programming | T206 Networks (CISCO RSE) |
| D202 Software Process | T211 Systems Security |
| I203 Digital Multimedia | I263 (IF603) Introduction to Finance |
| I209 Industry Placement |  |
| ***Year 3 (Level 7)*** | I301 Professional Practice | I321 Advanced Systems Analysis |
| I302 Industry Project  (45 Credits) | I309 Special Topic |
| T301 Network Design |
| D301 Software Engineering | T302 CISCO Scaling and Connecting |
| D303 Java Mobile and Web | T311 Systems Administration |
| D311 Advanced Database Concepts | I304 Data Analytics and Intelligence |
| I303 Managerial Practice | I311 Advanced Web Solutions |
| T312 Network Security (CCNA Security) | I367 (PM700) Advanced Project Management |
|  |  |

|  |  |  |
| --- | --- | --- |
| **KEY** | | |
| Compulsory | Major Elective | Non-Major Elective |
| Bachelor of Applied Management paper | | |

**Software Engineering Major**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| July | D101 | I202 | I301 |
| I111 | D202 | D303 |
| I102 | Elective | Elective |
| T101 | Elective | Elective |

**Focus:** Software engineering, programming, and development

**Employment:** Software Engineer, Programmer, Software Developer

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| Feb | D111 | D211 | D301 |
| I121 | D201 | I302  (Software  Engineering) |
| I101 | Elective |
| T111 | Elective |

\* Six major elective 15 Credit Courses + a 45 Credit Software Engineering Project or Internship

**Business & Systems Analysis Major**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| July | I102 | I202 | I301 |
| D101 | I221 | I303 |
| I111 | D202 | Elective |
| T101 | Elective | Elective |

**Focus:** Business and systems analysis, requirements elicitation, process modelling

**Employment:** Business Analyst, Systems Analyst

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| Feb | I121 | D211 | I321 |
| D111 | Elective | I302  (Systems Analysis) |
| I101 | Elective |
| T111 | Elective |

\* Seven major elective 15 Credit Courses + a 45 Credit Systems Analysis Project or Internship

**Systems Administration Major**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| July | I102 | I202 | I301 |
| D101 | T211 | T311 |
| I111 | Elective | Elective |
| T101 | Elective | Elective |

**Focus:** System administration, server and database administration

**Employment:** System Administrator, Systems Engineer

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| Feb | T111 | T201 | D311 |
| I121 | D211 | I302  (Systems Admin) |
| D111 | Elective |
| I101 | Elective |

\* Seven major elective 15 Credit Courses + a 45 Credit Systems Administration Project or Internship

**Network Engineering Major**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| July | T101 | I202 | I301 |
| D101 | T211 | T302 |
| I102 | Elective | Elective |
| I111 | Elective | Elective |

**Focus:** Networking and ICT infrastructure

**Employment:** Network Engineer, Infrastructure Engineer, Network Analyst/Engineer

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| Feb | T111 | T201 | T301 |
| I121 | T206 | I302 (Networking) |
| I101 | Elective |
| D111 | Elective |

\* Six major elective 15 Credit Courses + a 45 Credit Networking Project or Internship

**Web & Mobile Development Major**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| July | D101 | I202 | I301 |
| I111 | I213 | D303 |
| I102 | Elective | I311 |
| T101 | Elective | Elective |

**Focus:** Web and mobile platform development

**Employment:** Web Developer, Mobile Developer, Programmer

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| Feb | D111 | D211 | Elective |
| I121 | I203 | I302  (Web/Mobile) |
| I101 | Elective |
| T111 | Elective |

\* Seven major elective 15 Credit Courses + a 45 Credit Web or Mobile Project or Internship

**Data Management & Analytics Major**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| July | D101 | I202 | I301 |
| I111 | Elective | I304 |
| I102 | Elective | Elective |
| T101 | Elective | Elective |

**Focus:** Data analytics, data warehousing, database development, business intelligence

**Employment:** Data Analyst, Database Administrator

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| Feb | I121 | I212 | D311 |
| D111 | D211 | I302  (Data Analytics) |
| I101 | D201 |
| T111 | Elective |

\* Six major elective 15 Credit Courses + a 45 Credit Data Analytics Project or Internship

**Project Management Major**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| July | I102 | I202 | I301 |
| D101 | D202 | I303 |
| I111 | Elective | Elective |
| T101 | Elective | Elective |

**Focus:** IT project management, agile projects

**Employment:** Project Manager, Scrum Master, Project Lead

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| Feb | D111 | I263 (IF603) | I367 (PM700) |
| I121 | I212 | I302 (project management) |
| I101 | Elective |
| T111 | Elective |

\* Seven major elective 15 Credit Courses (2 from BAM) + a 45 Credit ICT Project

**Security Major**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| July | T101 | I202 | I301 |
| D101 | T211 | T311 |
| I102 | Elective | Elective |
| I111 | Elective | Elective |

**Focus:** ICT systems and network security

**Employment:** Security Analyst, Security Engineer, Security Specialist

\* Six major elective 15 Credit Courses + a 45 Credit Security Project or Internship

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 |
| Feb | T111 | T201 | T312 |
| I121 | T206 | I302  (Security) |
| I101 | Elective |
| D111 | Elective |

(Unendorsed)

An unendorsed graduate option will be available within the curriculum allowing student to complete the degree without a Major

Double Majors

Students will also have the ability to complete a double Major through careful course selection. A double Major will be achieved when all courses for both Majors are completed. A double Major will also necessitate that final I302 Industry Projects will need to adequately cover both Major focus areas.