NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Office of the Registrar

Yearbook - Part 7
Faculty of Natural Resources and Spatial Sciences

2020

NAMIBIA UNIVERSITY OF SCIENCE AND TECHNOLOGY

YEARBOOK 2020

PART 7

Faculty of Natural Resources and Spatial Sciences

(**Note:** The final interpretation of all regulations in this Yearbook for the *Faculty of Natural Resources and Spatial Sciences* shall be vested in Council).

NOTE

The ***Yearbook for the Faculty of Natural Resources and Spatial Sciences*** is valid for 2020 only. Curricula and syllabi may be amended for 2020.

It is obtainable free of charge from:

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Due to the rapidly changing external environment that many programmes operate in, and the University's desire to remain constantly relevant in its offerings, some programmes may be significantly amended after publication of this Yearbook. Please consult our website for the latest versions of our curricula, syllabi and academic regulations.

The fact that particulars of a specific programme, field of study, subject, or course have been included in this Yearbook does not necessarily mean that such a programme, field of study, subject, or course will be offered in the academic year 2019.

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FACULTY OF NATURAL RESOURCES AND SPATIAL SCIENCES **FACULTY CODE 299**

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Faculty of Natural Resources and Spatial Sciences - Yearbook 2020

UNDERGRADUATE PROGRAMMES

DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES SCIENCES CODE 94

AGRICULTURE PROGRAMMES

QUALIFICATIONS OFFERED

Diploma in Agricultural Management- Full Time	27DAGR
Bachelor of Agricultural Management- Full Time with Block Learning Sessions	27BAGR
Bachelor of Agriculture (Revised Programme)	07BAGR
Bachelor of Science in Agriculture	07BAGA

DIPLOMA IN AGRICULTURAL MANAGEMENT 27DAGR
(Phasing out from 2014 until 2020)

NQF Level: 6 **NQF Credits: 250 NQF** **Qualification ID: Q0147**

Functions
The diploma section of the programme prepares students to venture into farming or agribusiness, or to become agricultural research or extension technicians to facilitate sustainable development.

Modes of Delivery
The first 5 semesters of the programme are taken through full time study, four semesters of which are at the Namibia University of Science and Technology while one semester is spent on in-service training through a work attachment.

Programme Structure
The first 5 semesters of the programme consists of 23 semester courses and a semester of in-service training, for the Diploma. The in-service training is run in partnership with establishments where the students gain work experience. The Faculty of Human Sciences presents four of the courses.

Admission Requirements
Candidates may be admitted into this qualification if they meet the general University's admission requirements of a Grade 12 certificate at NSSC with at least 25 aggregate points in 5 subjects and comply with the following additional requirements:

- A pass with at least an E-symbol in English at NSSC Ordinary level or Higher level 4 or equivalent, OR placement into an English bridging course through the placement test;
- A pass with at least an E-symbol in Mathematics at NSSC Ordinary or Higher level 4 or equivalent;
- Passes with at least an E-symbol in Agriculture, Biology or Science related subjects;
- Mature students with a grade 10 certificate or equivalent, or candidates with foreign qualifications, with a pass in Numerical and English Proficiency Tests could be considered;
- Must be medically and physically fit for field work, which forms an integral part of the programme;
- Candidates will be expected to demonstrate proficiency with computers (word processing, spreadsheets, internet use) OR complete a bridging course in basic computer use.

Examination Requirements
In line with the general requirements of Senate, the assessment of the student's academic performance will be on the basis of a semester mark and examination mark, for Diploma courses.

For determining the combined final mark of Diploma courses, the ratio of semester mark to examination mark shall be 70:30 for the agricultural courses of the Diploma programme. The semester mark is determined by continuous assessment of a student's achievement by means of tests and/or assignments/tutorials/seminars/practicals/projects. A written examination for a course consists of 1 paper of 3 hours. A candidate will gain admission to the examination of a course if s/he attains a semester mark of at least 40%.

The exception amongst the agricultural courses is Computer User Skills, which has a practical test in place of a written examination. For information about the four English and Communication courses, please see the relevant section of the Yearbook under the Faculty of Human Sciences.

Practicals
Apart from weekly practical sessions for most of the Diploma courses, there are also excursions for some of the courses. To qualify for In-service Training, a student must pass all courses from the first to the fourth semester except that a student will be allowed to go for In-service Training if s/he has failed only one course. S/he should however have been admitted to the examination in that course. Exemptions from this rule are subject to the approval of the Board of Studies, but may only be granted under exceptional circumstances.

Departmental Rule

Students who have not passed all the Diploma courses of the previous semesters may not register for a course that is scheduled for a higher year than their current year, so as to avoid conflicts with current courses when on excursions. Students who have to repeat one or more courses may consider registering for a course that is scheduled for a higher year, if it appears likely that the student will be able to cope with all the courses for which that student registers.

CURRICULUM

Course Code	Course Title	Prerequisite	NQF Level	NQF Credits
Year 1				
Semester 1				
ICA510S	Introduction to Chemistry	None	5	10
IBI510S	Introduction to General Biology	None	5	12
CUS411S	Computer User Skills	None	4	10
LBT4003	Agricultural Mechanisation	None	5	12
PLU411S	Principles of English Language Use	None	4	NCB
BAC1100	Business Accounting 1A	None	6	12
Semester 2				
SSA120S	Soil Science (Agriculture)	Introduction to Chemistry Co-requisite: Introduction to Mathematics	5	12
ITM111S	Introduction to Mathematics	None	5	12
RSC112S	Rangeland Science	Introduction to Biology	5	12
RME410S	Research Methodology (SNRT)	None	6	10
Year 2				
Semester 3				
EPR511S	English in Practice	Placement test or Language in Practice/ Principles of English Language Use	5	NCB
SRH2100	Small Ruminant Husbandry	Introduction to Biology	6	12
RMN211S	Rangeland Management	Rangeland Science	6	12
AAG2100	Agronomy	Introduction to Biology and Soil Science	6	12
AEC2100	Agricultural Economics	Introduction to Mathematics	5	10
ACS220S	Agricultural Statistics	Introduction to Mathematics Module 1	5	10
Semester 4				
LRH2200	Large Ruminant Husbandry	Introduction to Biology	6	12
LBT4001	Agricultural Extension	English in Practice	6	12
HCT3200	Horticulture	Introduction to Biology & Soil Science	6	12
EAP511S	English for Academic Purposes	English in Practice	5	14
ABM322S	Agribusiness Management	Co-requisite: Agricultural Economics Business Accounting 1A	7	12
Year 3				
Semester 5				
IAG710S	In-Service Training (Agriculture)	All courses of the first four semesters, unless only one course has been failed, for which the student obtained admission to the examination.	7	30

BACHELOR OF AGRICULTURAL MANAGEMENT **27BAGR**
(Phasing out from 2014 until 2020)

NQF Level: 7 **NQF Credits: 417** **NQF Qualification ID: Q0148**

Functions
The degree section of the programme not only provides opportunities for continued career education, but also focuses on the attributes that equip high potential entry-level employees with relevant managerial skills. In particular, it concentrates on improved productivity and effective management of agricultural and human resources, and finances.

Modes of Delivery
The Bachelor programme is offered in the block-learning mode with intensive workshops, which takes two years or possibly one year if the student is not employed.

Programme Structure
The Degree section of the programme comprises of semester courses. There are seven compulsory courses in the sixth semester, with an elective course out of Sustainable Animal Production or Sustainable Plant Production or Community-Based Natural Resource Management. The seventh semester has five compulsory courses, with an elective course out of Professional Writing or Professional Communication. There are at least three contact sessions per semester. In addition, those students who have not passed a computer course will need to take Computer User Skills (CUS411S) in order to fulfill the curriculum requirements for the programme.

Admission Requirements
Candidates for the Bachelor of Agricultural Management may be admitted into this qualification if they have received a Diploma in Agricultural Management from the Polytechnic of Namibia/Namibia University of Science and Technology or an equivalent qualification of at least 200 credits, with a pass of at least 60% overall. The final admission will be at the discretion of the Department.

Examination Requirements
In line with the general requirements of Senate, the assessment of the student's academic performance will be 100% continuous assessment for the Bachelor of Agricultural Management. The combined final mark of Degree courses is determined by continuous assessment of a student's achievement by means of tests and/or assignments/oral presentations/practical's/projects.

Promotion Policy
Students may be admitted into the Bachelor programme if they have completed the Diploma with above mentioned performance requirements.

CURRICULUM

The sequences of these courses may differ for the different cohorts.

Year 3
Semester 6

Course Code	Course Title	Prerequisite	NQF Level	NQF Credits
FTE610S	Food Technology	None	6	15
SAM721S	Strategic Agribusiness Management	None	7	15
MRI321S	Marketing Research and Market Intelligence	Agricultural Economics and Agribusiness Management	7	13
ACM720S	Agricultural Marketing	None	7	15
PWR611S	Professional Writing	English for Academic Purposes	6	14

Electives: Students must choose ONE of the following courses:

SAP721S	Sustainable Animal Production	None	7	15
	OR			
SPP721S	Sustainable Plant Production	None	7	15
	OR			
CBR410Y	Community-Based Natural Resource Management	None	7	15

Year 4

Semester 7

NRH620S	Non-Ruminant Husbandry	None	6	12
ALM620S	Agricultural Land Management	None	6	12
AGE720S	Agroecology	None	7	12
FMA711S	Financial Management (Agriculture) IV	Business Accounting 1A	7	15
RSO610S	Rural Sociology	None	6	15

Electives: Students must choose ONE of the following courses:

PCT121S*	Principles of Critical Thinking	English for Academic Purposes	6	14
PCO611S	Professional Communication	English for Academic Purposes	6	14

* This course is being discontinued effective October 2011.

BACHELOR OF AGRICULTURE **07BAGR**
(Phasing out as of 2020)

NQF Level: 7 **NQF Credits: 372** **NQF Qualification ID: Q0480**

Description
The Bachelor of Agriculture provides a systematic and coherent introduction to the knowledge, principles, concepts, data, theories and problem-solving techniques of the agriculture discipline. The programme will enable students to acquire cognitive/intellectual skills, practical skills and key transferable skills and to apply these skills in solving agricultural related problems that face the Namibian agriculture and commercial/subsistence farming sectors. This programme also intends to provide basic managerial competence through teaching, extension and research, thereby sustaining the agricultural industry, creating new employment opportunities, and contributing to Namibia's economic development.

Overall, the Bachelor of Agriculture aims at:

- Equipping students with relevant knowledge, skills and attitudes to contribute to agricultural production and sustainable resource management;
- Providing students with a sound foundation in the fundamental concepts and theories of agriculture;
- Developing the ability of students to analyse agricultural information from a wide range of sources;
- Providing graduates with basic managerial competencies for effective agricultural management, human resources and finances;
- Equipping graduates with the requisite skills to work effectively as individuals and as members of a team;
- Providing students with opportunities for continued career education.

Admission Requirements
Candidates may be admitted to the Bachelor of Agriculture if they meet the University's General Admission Requirements (GI2.1 in Part 1 of the NUST Yearbook). Candidates must also comply with the following additional requirements:

- A pass with at least an E-symbol in Mathematics at NSSC Ordinary Level or a 4 at NSSC Higher Level or equivalent;
- Passes with at least an E-symbol in Biology or Science related subjects.

Candidates who meet the Mature Age Entry requirements of the Namibia University of Science and Technology (GI2.2 in Part 1 of the NUST Yearbook) will also be considered for admission.

Holders of the University's Diploma in Agricultural Management (Level 6) will be admitted to the third year of this programme, and will be exempted from Work Integrated Learning (WIL) in semester 5, but are required to complete the following courses in order to qualify for the award of the Bachelor of Agriculture:

- Animal Health,
- Contemporary Issues,
- Non-ruminant Husbandry
- Agroecology
- Agricultural Land Management,
- Financial Management (Agriculture),
- Food Science and Technology,
- Rural Development Sociology.

Candidates must be medically and physically fit for field work, which forms an integral part of the programme.

Articulation Arrangements
Transfer of credits will be dealt with according to the University's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification.

Graduates of the Bachelor of Agriculture will be able to pursue further studies in Agriculture, or a related cognate area of learning, at NQF Level 8.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisite	NQF Level	NQF Credits
ICA511S	Introduction to Chemistry	None	5	10
CUS411S	Computer User Skills	None	4	10
ITM111S	Introduction to Mathematics	None	5	10
PLU411S	Principles of English Language Use	None	4	NCB
IBI511S	Introduction to General Biology	None	5	10
Semester 2				
AMC520S	Agricultural Mechanisation	None	5	12
AEM520S	Agricultural Economics	Introduction to Mathematics	5	10
RSC520S	Rangeland Science	Introduction to General Biology	5	12
AGS520S	Agricultural Statistics	Introduction to Mathematics	5	10
SSA520S	Soil Science	Introduction to Chemistry	5	12
EPR511S	English in Practice	Language in Practice/ Principles of English Language Use, or Language in Practice A, or Module 2, or Exemption	5	NCB
Year 2				
Semester 3				
ICT521S	Information Competence	None	5	10
SRH610S	Small Ruminant Husbandry	Introduction to General Biology	6	12
RMN610S	Rangeland Management	Rangeland Science	6	12
LRH610S	Large Ruminant Husbandry	Introduction to General Biology	6	12
AAG610S	Agronomy	Introduction to General Biology & Soil Science	6	12
EAP511S	English for Academic Purposes	English in Practice	5	14
Semester 4				
ALM621S	Agricultural Land Management	Soil Science	6	12
HCT620S	Horticulture	Introduction to General Biology & Soil Science	6	12
ANH620S	Animal Health	Introduction to Chemistry; Introduction to General Biology	6	12
RME620S	Basic Research Methodology	Agricultural Statistics; Computer User Skills	6	10
AGX620S	Agricultural Extension	English in Practice	6	12
NRH621S	Non-Ruminant Husbandry	Introduction to General Biology	6	12
Year 3				
Semester 5				
WLA710S	Work Integrated Learning (WIL)	All courses of the first four semester's, unless only one course has been failed, for which the student obtained admission to the examination.	7	60
Semester 6				
CIS610S	Contemporary Issues	None	6	12
AGE721S	Agroecology	Rangeland Science	7	12
ABM720S	Agribusiness Management	Agricultural Economics	7	12
FMA720S	Financial Management (Agriculture)	Agricultural Economics	7	14
FST720S	Food Science and Technology	Introduction to Chemistry	7	12
RDS720S	Rural Development Sociology	None	7	12

Special Arrangements

Teaching and Learning Strategies

This learning process will be facilitated both in and outside the classroom, requiring specific tasks to be carried out by the student. This facilitation will make use of, inter alia, practical's, projects, quizzes, lectures, oral presentations, assignments, excursions, presentation of audio-visual materials, problem based learning and individual and/or group work. The progress of learning embedded in such tasks will be monitored, recorded and assessed.

Assessment Strategies

In addition to the general requirements of Senate, the assessment of the student's academic performance will be on the basis of employing assessment methodologies and strategies appropriate to the learning outcomes of the different courses. For the Bachelor of Agriculture, all courses will be assessed using a combination of Continuous Assessment (CA) and an end-of semester examination. CA and the examination will contribute in a ratio of 60/40 to the Final Mark. In order to be admitted to the examination, a semester mark of at least 40% is required. To obtain a final pass mark, a student must attain at least 50% in a course, subject to a sub-minimum of 40% in the examination. Some courses may use open book tests/examinations to allow students access to their study materials at the discretion of the examiner.

The Bachelor degree student must also undertake a compulsory component of Work-Integrated Learning (WIL) during which they have to record all duties performed, do a basic research project and present their general duties and research findings. The student is also evaluated in terms of work ethics and attitude by his mentor at the duty station, as well as the tutor from the University. A minimum of 50% is required to pass the basic research project. It is recommended that students should have at least a code 8 driver's license before going on WIL.

Transition Arrangements

The Bachelor of Agricultural Management (old curriculum), currently offered over 7 semesters, will be phased out systematically until 2020 with minimal disruption to existing students' learning progression. The last intake of 1st year students for the out-phasing programme (old curriculum) was in January 2013. The last intake for the final year of the out-phasing programme (old curriculum), will be in 2018. The last cohort of students, to be registered for the final year in 2018, would have until 2020 to complete the out-phasing programme (old curriculum).

Students who were registered in 2013 for the 1st year of the out-phasing programme (old curriculum), and who failed more than 50% of the courses at the end of the year, will be required to change their registration to the new programme and will be granted credits on a course-by-course basis in accordance with information in Table 1 below. Students who were registered in 2013 for the 1st year of the out-phasing programme (old curriculum) and who meet all requirements to progress to the 2nd year in 2014 will be allowed to transition to the revised programme (new curriculum) but will lose the credits for Basic Accounting 1A.

The revised Bachelor of Agriculture (New curriculum) took effect from January 2014 with the concurrent completion of the 1st and 2nd year (2014) and the implementation of the 3rd year in 2015. Courses will only be offered based on the new/revised syllabi in 2014 (1st and 2nd year) and 2015 (3rd year). Students who are admitted into the examination but fail any of the courses on the old curriculum will only be granted two opportunities to pass such courses in accordance with the University's general rules. Students who fail any of the courses on the old curriculum will be required to repeat the failed courses based on syllabi of new/revised corresponding courses. Please refer to Table 2, below, for detailed information on the new/revised corresponding courses to be done if courses on the old curriculum are failed.

The deadline for complete phasing out of the Bzachelor of Agricultural Management (old curriculum) is 2020 after which students must automatically switch to the new programme and fulfill all requirements based of the new curriculum.

Table 1: 1st Year Courses to be Credited

Course Code	Bachelor of Agricultural Management (Old Courses)	Course Code	Bachelor of Agriculture (New/Revised Equivalent Courses)
ICA510S	Introduction to Chemistry	ICA511S	Introduction to Chemistry
CUS411S	Computer User Skills	CUS411S	Computer User Skills
ITM111S	Introduction to Mathematics	ITM111S	Introduction to Mathematics
LIP411S	Language in Practice	PLU411S	Principles of English Language Use
IBI510S	Introduction to General Biology	IBI511S	Introduction to General Biology
LBT4003	Agricultural Mechanisation	AMC520S	Agricultural Mechanisation
AEC2100	Agricultural Economics	AEM520S	Agricultural Economics
RSC112S	Rangeland Science	RSC520S	Rangeland Science
ACS220S	Agricultural Statistics	AGS520S	Agricultural Statistics
SSA120S	Soil Science	SSA520S	Soil Science
EPR511S	English in Practice	EPR511S	English in Practice

Table 2: Corresponding Courses (to be completed if courses on the old curriculum are failed) - (Please note this is not a credit table)

Course Code	Bachelor of Agricultural Management (Old Courses)	Course Code	Bachelor of Agriculture (Corresponding New/ Revised Courses to be Done, if Failed)
ICA510S	Introduction to Chemistry	ICA511S	Introduction to Chemistry
IBI510S	Introduction to General Biology	IBI511S	Introduction to General Biology
LBT4003	Agricultural Mechanisation	AMC520S	Agricultural Mechanisation
AEC2100	Agricultural Economics	AEM520S	Agricultural Economics
RSC112S	Rangeland Science	RSC520S	Rangeland Science
ACS220S	Agricultural Statistics	AGS520S	Agricultural Statistics
SSA120S	Soil Science	SSA520S	Soil Science
SRH2100	Small Ruminant Husbandry	SRH610S	Small Ruminant Husbandry
RMN211S	Rangeland Management	RMN610S	Rangeland Management
LRH2200	Large Ruminant Husbandry	LRH610S	Large Ruminant Husbandry
AAG2100	Agronomy	AAG610S	Agronomy
ALM620S	Agricultural Land Management	ALM621S	Agricultural Land Management
HCT3200	Horticulture	HCT620S	Horticulture
RME410S	Research Methodology (SNRT)	RME620S	Basic Research Methodology
LBT4001	Agricultural Extension	AGX620S	Agricultural Extension
NRH620S	Non-Ruminant Husbandry	NRH621S	Non-Ruminant Animal Husbandry
IAG710S	In-service Training (Research Project)	WLA710S	Work Integrated Learning (WIL)
AGE720S	Agroecology	AGE721S	Agroecology
ABM322S	Agribusiness Management	ABM720S	Agribusiness Management
FMA711A	Financial Management (Agriculture) IV	FMA720S	Financial Management (Agriculture)
FTE610S	Introduction To Food Technology	FST720S	Food Science Technology
RSO610S	Rural Sociology	RDS720S	Rural Development Sociology
MRI321S	Marketing Research and Market Intelligence		None
ACM720S	Agricultural Marketing		None
SAP721S	Sustainable Animal Production		None
SPP721S	Sustainable Plant Production		None
SAM721S	Strategic Agribusiness Management		None

Please Note:

- Table 2, above, only highlights new/revised courses in the Bachelor of Agriculture that should be done if courses on the Bachelor of Agricultural Management (old curriculum) are failed. Service courses from other Departments are excluded, but the rules of relevant Departments apply to this programme as well.
- Courses in the old curriculum that do not have corresponding courses in the new curriculum will be taught until the old curriculum is phased out.
- Institutional Core Courses are included in this programme.

BACHELOR OF SCIENCE IN AGRICULTURE **07BASA**
(Revised Programme) (Phasing in 2020)

Description
The Bachelor of Science in Agriculture provides a systematic and coherent introduction to the knowledge, principles, concepts, data, theories and problem-solving techniques of the agriculture discipline. The programme will enable students to acquire cognitive/ intellectual skills, practical skills and key transferable skills and to apply these skills in solving agricultural related problems that face the Namibian agriculture and commercial/subsistence farming sectors. This programme also intends to provide basic managerial competence through teaching, extension and research, thereby sustaining the agricultural industry, creating new employment opportunities, and contributing to Namibia's economic development. This programme enables students to specialise in Agribusiness Management; or Sustainable Agriculture.

Overall, the Bachelor of Science in Agriculture aims at:

- Equipping students with relevant knowledge, skills and attitudes to contribute to agricultural production and sustainable resource management;
- Providing students with a sound foundation in the fundamental concepts and theories of agriculture; developing the ability of students to analyse agricultural information from a wide range of sources;
- Providing graduates with basic managerial competencies for effective agricultural management, human resources and finances;
- Equipping graduates with the requisite skills to work effectively as individuals and as members of a team; and
- Providing students with opportunities for continued career education.

Criteria for Admission
Candidates may be admitted to the Bachelor of Science in Agriculture if they meet Namibia University of Science and Technology's General Admission Requirements (GI2.1 in Part 1 of the Yearbook). Candidates must also comply with the following additional requirements:

- A pass with at least an E-symbol in Mathematics at NSSC Ordinary Level or a 4 at NSSC Higher Level or equivalent;
- Passes with at least an E-symbol in Biology or Science related subjects.

Candidates who meet the Mature Age Entry requirements of the NUST (GI2.2 in Part 1 of the Yearbook) will also be considered for admission.

Holders of the NUST's Diploma in Agricultural Management (Level 6) will be admitted in this programme and will get exemption for the corresponding courses. They will be exempted from Work Integrated Learning (WIL), but are required to complete all the requirements of their selected strand for those courses without a corresponding course, in order to qualify for the award of the Bachelor of Science in Agriculture:

Candidates must be medically and physically fit for fieldwork, which forms an integral part of the programme.

Articulation Arrangements
Transfer of credits will be dealt with according to the NUST's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification.

Graduates of the Bachelor of Science in Agriculture will be able to pursue further studies in Agriculture, or a related cognate area of learning, at NQF level 8.

Mode of Delivery
The programme will only be offered on the full-time mode of study in accordance with NUST rules.

Requirements for Qualification Award
The Bachelor of Science in Agriculture will be awarded to students credited with a minimum of 368 NQF credits. In addition, students should meet the administrative and financial requirements spelt out in Part 1 of Namibia University of Science and Technology Yearbook.

Students specialise in either Agribusiness Management or Sustainable Agriculture, which are developed in increasing complexity across relevant NQF levels in accordance with NQF principles

Teaching and learning strategies
The requirements of the NQF underline the acquisition of cognitive skills and competencies exceeding the knowledge and understanding of subject-specific knowledge items and professional/technical competencies. Thus, the qualification focuses on the engagement of students in an interactive learning process in order to provide for the development of generic cognitive and intellectual skills, key transferable skills, and, as the case may be, subject-specific and/or professional/technical practical skills.

This learning process will be facilitated both in and outside the classroom, requiring specific tasks to be carried out by the student. This facilitation will make use of, inter alia, practical, projects, quizzes, lectures, oral presentations, assignments, excursions, presentation of audio-visual materials, problem-based learning and individual and/or group work. The progress of learning embedded in such tasks will be monitored, recorded and assessed.

Assessment strategies
In addition to the general requirements of Senate, the assessment of the student's academic performance will be on the basis of employing assessment methodologies and strategies appropriate to the learning outcomes of the different courses. For the Bachelor of Science in Agriculture, all courses will be assessed using a combination of Continuous Assessment (CA) and an end-of-semester examination. CA and the examination will contribute in a ratio of 60/40 to the Final Mark. In order to be admitted to the examination, a semester mark of at least 40% is required. To obtain a final pass mark, a student must attain at least 50% in a course, subject to a sub-minimum of 40% in the examination. Some courses may use open-book tests/examinations to allow students access to their study materials at the discretion of the examiner.

Quality Assurance requirements
Each course (please refer to the Detailed Qualification Requirements) will have one or more examiner and one moderator. Moderators will be identified both internally and externally. The required minimum qualification of the moderator should be a Bachelor Honours degree in a related field of studies or the person must be a well-respected expert in the field in more practical areas. Lecturing staff will set and mark tests and/or examinations which will, together with relevant study material of that particular course and other material containing course learning outcomes in the context of the qualification learning outcomes, be forwarded to the moderator for moderation purposes, therefore, ensuring quality of the assessment and the qualification as a whole. All exit level courses for this programme, i.e. courses at NQF level 7, will be externally moderated.

Transition Arrangements
There are significant changes to this programme, thus the Bachelor of Agriculture (old curriculum) will be phased out systematically with minimal disruption to existing students' learning progression. The revised Bachelor of Science in Agriculture will be phased in 2020. The last intake of 1st year students for the Bachelor of Agriculture (old curriculum) programme is the 2019 intake.

Students who are registered in 2019 for the 1st year of the out-phasing programme (old curriculum), and who fail more than 50% of the courses at the end of the year, will be required to change their registration to the revised Bachelor of Science in Agriculture programme and will be granted credits on a course-by-course basis in accordance with information in Table 15.1 below. Similarly, students who have completed courses on the out-phasing programme will get credits for the corresponding courses in the new revised programme in accordance with Table 15.1, fulfilling the criteria of the selected strand. Similarly, students who are registered in 2019 for the 1st year of the out-phasing programme (old curriculum) and who meet all requirements to progress to the 2ndyear of the out-phasing programme in 2020 will be allowed to transition to the revised programme (revised Bachelor of Science in Agriculture).

Students who are registered in 2019 for the 2nd year of the out-phasing programme (old curriculum), and who fail more than 50% of the courses at the end of the year, will be required to change their registration to the revised Bachelor of Science in Agriculture programme, and will be granted credits on a course-by-course basis in accordance with information in Table 15.1. Such students, however, will lose credits for Agricultural Land Management.

Students who are registered in 2019 for the 2nd year of the out-phasing programme (old curriculum) and who meet all requirements to progress to the 3rdyear in 2020 will be required to complete their studies based on the requirements of the old curriculum.

The revised Bachelor of Science in Agriculture (revised curriculum) will take effect from January 2020 with concurrent implementation of 1st and 2ndyear. Thus, courses will only be offered based on the new/revised syllabi in 2020 (1st and 2nd year), 2021 (3rd year). Students who fail any of the courses on the old curriculum will be required to repeat such courses based on syllabi of new/revised corresponding courses. Please refer to Table 15.2, below, for detailed information on the new/revised corresponding courses to be done if courses on the old curriculum are failed.

The deadline for complete phasing out of the Bachelor of Agriculture (old curriculum) is 2024 after which students must automatically switch to the new programme and fulfil all requirements based on the new curriculum.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
PLU411S	Principles of English Language Use	None	4	
CUS411S	Computer User Skills	None	4	10
ITM111S	Introduction to Mathematics	None	5	10
ICA511S	Introduction to Chemistry	None	5	10
IBI511S	Introduction to General Biology	None	5	10
AMC520S	Agricultural Mechanisation	None	5	12

Year 1 Semester 2

EPR511S	English in Practice	Principles of English Language Use, or Language in Practice (LIP411S), or a B for IGCSE English as a Second Language	5	
AEM52OS	Agricultural Economics	Introduction to Mathematics	5	10
AGE721S	Rangeland Ecology	Introduction to General Biology	5	12
AGS520S	Agricultural Statistics	Introduction to Mathematics	5	10
SSA520S	Soil Science	Introduction to Chemistry	5	12
SCP621S	Sustainable Crop Production	Introduction to General Biology	6	12

Year2
Semester 3

ICT521S	Information Competence	None	5	10
EAP511S	English for Academic Purposes	English in Practice	5	14

PLUS three of the following strand courses depending on specialisation

Sustainable Agriculture Strand:

SRH611S	Sustainable Small Ruminant Husbandry	Introduction to General Biology	6	12
RRG611S	Rangeland Regeneration	Rangeland Ecology	6	12
SLH611S	Sustainable Large Ruminant Husbandry	Introduction to General Biology	6	12

Agribusiness Management Strand:

PPE611S	Principles of Production Economics	Agricultural Economics	6	12
MTH611S	Mathematics for Agribusiness	Introduction to Mathematics	6	12

Plus one of the Strand Elective Course for Students who opt for the Agribusiness Management Strand

SLH611S	Sustainable Large Ruminant Husbandry	Introduction to General Biology	6	12
SRH611S	Sustainable Small Ruminant Husbandry	Introduction to General Biology	6	12

Year 2
Semester 4

ABM720S	Agribusiness Management	Agricultural Economics	7	12
RME620S	Basic Research Methodology	Agricultural Statistics; Computer User Skills	6	10

PLUS four of the following courses depending on specialisation:

Sustainable Agriculture Strand:

CVA621S	Conservation Agriculture	Soil Science	6	12
GRS621S	GIS and Remote Sensing Applications in Agriculture	None	6	12
ANH620S	Animal Health	Introduction to Chemistry, Introduction to General Biology	6	12
AGX620S	Agricultural Extension	English in Practice	6	12

Agribusiness Management Strand:

APT621S	Agroprocessing and Technology Introduction to Chemistry	Introduction to Biology and;	6	12
PAM621S	Principles of Agribusiness Marketing	Agricultural Economics	6	12
BEA621S	Basic Econometrics for Agriculture	Agricultural Statistics	6	12

Plus one of the Strand Elective Courses for Students who opt for the Agribusiness Management Strand

AGX620S	Agricultural Extension	English in Practice	6	12
IHR512S	Introduction to Human Resources Management	None	5	12

Year2
Semester 5

WLA710S	Work Integrated Learning (WIL)	All courses of the first four semesters	7	60

Year 2
Semester 6

SYD611S	Sustainability and Development	None	6	12
APD721S	Agricultural Policy and Rural Development	None	7	12
ENR721S	Environmental and Natural Resource Economics	Agricultural Economics	7	12

PLUS one of the following Strand Compulsory depending on specialisation

Sustainable Agriculture Strand:

SNH611S	Sustainable Non-Ruminant Husbandry	Introduction to General Biology	6	12
AGE721S	Agroecology	Rangeland Regeneration	7	12

Plus one of the Strand Elective Course for Students who opt for the Sustainable Agriculture Strand

SUA721S	Sustainable Urban Agriculture	Sustainable Crop Production	7	12
WRM721S	Water Resource Management	Conservation Agriculture	7	12

Agribusiness Management Strand:

FMA720S	Financial Management (Agriculture)	Agricultural Economics	7	12
ECT721S	Economics of Trade	Principles of Agribusiness Marketing	7	12
PJA712S	Project Management	None	7	12

BACHELOR OF HORTICULTURE **7BHOR**
New Programme (Phased in 2019)

NQF Level: 7 **NQF Credits: 382** **NQF Qualification ID:**

Description
The Bachelor of Horticulture is primarily designed to provide a systematic and coherent introduction to the knowledge, principles, concepts, theories and problem-solving techniques on production of horticultural crops, management, breeding, protection as well as soil fertility. The programme will enable students to acquire cognitive/intellectual skills (Horticulture), practical skills and key transferable skills and empower them to apply these skills in solving problems that face the Namibian horticultural sector. The Bachelor of Horticulture degree programme aims at equipping students with basic managerial competencies through teaching, excursions and research, thereby sustaining the horticultural industry, increasing the production and use of horticultural and other crops in the country, creating new employment opportunities, and contributing to Namibia's economic development. Further, this programme intends to provide students with the knowledge and skills required to plan, implement, and evaluate projects related to horticultural production, protection and management.

Admission Criteria
The Bachelor of Horticulture seeks suitably qualified candidates who are capable of benefiting from, contributing to, and successfully completing the programme. In order to be considered for admission to this programme, applicants must meet the General Admission Requirements of NUST (GI2.1 in the NUST General Year Book) and comply with the following additional requirements:

- A pass in Biology or a Biology-related subject, with at least an C-symbol at NSSC Ordinary Level;
- A pass in Mathematics with at least a D-symbol, at NSSC Ordinary Level;
- A pass in English with at least an E-symbol, at NSSC Ordinary Level.

Candidates who meet the Mature Age Entry requirements of NUST (GI2.2 in the NUST General Year Book) may be considered but will in addition be required to pass an admission test, compiled by the Department of Agriculture and Natural Resources Sciences.

Articulation Arrangements
The transfer of credits will be dealt with according to NUST's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credits that can be granted are 50% of the credits for a qualification.

Graduates of the Bachelor of Horticulture will be able to pursue further studies in Horticulture (at Honours), or in a related cognate area of learning, at NQF level 8.

Mode of Delivery
The programme will only be offered on the full-time mode in line with NUST rules and regulations.

Requirements for Award of Qualification
The Bachelor of Horticulture will be awarded to candidates credited with a minimum of 382 NQF credits. In addition, students should meet the administrative and financial requirements spelt out in the applicable NUST yearbook. This programme has one major subject/cognate area of learning, Horticulture, which is developed in increasing complexity across relevant NQF levels in accordance with NQF principles.

Teaching and Learning Strategies
The requirements of the NQF underline the acquisition of cognitive skills and competencies exceeding the knowledge and understanding of subject specific knowledge items and professional/technical competencies. Thus, the qualification focuses on the engagement of students in an interactive learning process in order to provide for the development of generic cognitive and intellectual skills, key transferable skills, and, as the case may be, subject specific and/or professional/technical practical skills.

This learning process will be facilitated both in and outside the classroom, requiring specific tasks to be carried out by the student. This facilitation will make use of, *inter alia*, practical, projects, quizzes, lectures, oral presentations, assignments, excursions, presentation of audio- visual materials, problem based learning and individual and/or group work. The progress of learning embedded in such tasks will be monitored, recorded and assessed.

Assessment Strategies
Examination Requirements
In addition to the general requirements of Senate, the assessment of the student's academic performance will be on the basis of a semester mark and an examination mark. Assessment will be according to the syllabus description for the different courses. A semester mark of 40% is required for admission to the examinations and all courses require a final mark of at least 50% to pass. Continuous Assessment, for both theory and practical will contributes 60% to the final mark except where otherwise stipulated in the course syllabus. A written examination of three hours (one paper) will contribute 40% to the final mark and a subminimum of 40% is required to be admitted to the examination. All courses will require a final mark of at least 50% to pass.

Work Integrated Learning

The Bachelor degree student must undergo compulsory and credit bearing Work-integrated Learning in the 5th semester of the programme. Before deciding on a duty station, students should make sure that the duty station should be able to have activities related to the student topic of the student. A minimum overall pass of 50% is required. A minimum of 40% is required for the research project and general report. It is recommended that students should probably have at least a code 8 driver's license before conducting their Work-integrated Learning.

Promotion Policy

In addition to the general regulations of Senate, in order to pass, a student will obtain a sub-minimum of 40% to be admissible for examination and obtain an overall final mark of at least 50% per course.

Quality Assurance Requirements

The Department holds quality delivery of its programmes as a key objective in its implementation strategies. Each course (please refer to the detailed Qualification Requirements) will have one or more examiners and one moderator. Identified moderators can be either internal or external. The required minimum qualification of the moderator will be at least an Honours degree in Horticulture related field, except in the case of technical courses. The moderators must also be knowledgeable individuals who are well-respected experts in the field. Lecturing staff will set and mark tests and/or examinations in accordance with set memoranda. The examinations, memoranda and course outlines will be forwarded to moderators, approved by BoS, for moderation. This ensures quality and equity of assessments and the qualification as a whole. All courses at NQF level 7 in this programme will be externally moderated.

Transition Arrangements

This is a new programme which does not replace any existing programme, therefore no transition arrangements are required/ applicable.

CURRICULUM

Year 1

Semester 1

Course Code	Course Title	Prerequisites
CUS411S	Computer User Skills	None
GNP501S	General Physics 1A	None
PLU411S	Principles of English Language Use	None
GNB501S	General Biology 1A	None
ICA510S	Introduction to Chemistry	None
ITM111S	Introduction to Mathematics	None

Semester 2

EPR511S	English in Practice	Principles of English Language Use, or Language in Practice (LIP411S), or a B for IGCSE English as a Second Language
IHR512S	Introduction to Human Resources Management	None
ICT521S	Information Competence	None
GNB502S	General Biology 1B	General Biology 1A
SSA520S	Soil Science	Introduction to Chemistry
GNP502S	General Physics 1B	General Physics 1A
AGS520S	Agricultural Statistics	Introduction to Mathematics

Year 2

Semester 3

PTP610S	Plant Physiology	General Biology 1A & 1B
PPN610S	Plant Protection	None
AEM520S	Agricultural Economics	Introduction to Mathematics
CPN610S	Crop Production	Soil Science
CEB601S	Cell Biology	General Biology 1A
EAP511S	English for Academic Purposes	English in Practice

Semester 4

VPP620S	Vegetable Physiology and Production	Crop Production, Plant Physiology
FPP620S	Fruit Physiology and Production	Crop Production, Plant Physiology
GEN620S	Genetics	Cell Biology
RME620S	Basic Research Methodology	Agricultural Statistics, Computer User Skills
TGL620S	Turf Grass and Landscape Management	Soil Science, Plant Physiology

Year 3

Semester 5

WIH710S	Work Integrated Learning	Vegetable Physiology and Production, Fruit Physiology and Production, Basic Research Methodology

Semester 6

CEX720S	Crop Ecophysiology	Plant Physiology
AVP720S	Applied Vegetable Production	Vegetable Physiology and Production
ABM720S	Agribusiness Management	Agricultural Economics
AFP720S	Applied Fruit Production	Fruit Physiology and Production
PPT720S	Postharvest Physiology and Technology	Vegetable Physiology and Production; and Fruit Physiology and Production
CIS610S	Contemporary Issues	None

BACHELOR OF NATURAL RESOURCE MANAGEMENT **07BNRS**
(Revised Programme Phasing in 2020)

NQF Level: 7 **NQF Credits: 363** **NQF Qualification ID:**

Programme Aims/Purpose
The Bachelor of Natural Resource Management (NRM) is designed to provide students with a logical introduction to the broad knowledge, principles, concepts, data, theories and problem-solving techniques in the natural resource management sector. The programme will enable students to acquire cognitive/intellectual skills, practical skills and key transferable skills in three broad thematic areas namely NRM Science, NRM Techniques and NRM Management, and to apply these skills in solving conservation related problems that face the Namibian natural resource management sector. This programme aims to improve the effective management of Namibia's natural resources, thus contributing to the sustainable utilisation of Namibia's natural environment.

Criteria for Admission
Candidates may be admitted to this Programme if they meet the General Admission Requirements of NUST (GI2.1 in the Yearbook on General Information and Regulations, Part 1) and comply with the following additional requirements:

- A pass with at least a C symbol at NSSC Ordinary Level in one of the following subjects: Biology, Geography and Agriculture;
- A pass in Mathematics with at least a D symbol, at NSSC Ordinary Level;
- A pass in English with at least a D symbol, at NSSC Ordinary Level;

Candidates who meet the Mature Age Entry requirements of NUST (GI2.2 in the Yearbook on General Information and Regulations, Part 1) will be considered.

Candidates must be medically fit, since field and physical work form an integral part of this study programme.

Articulation Arrangements
Transfer of credits will be dealt with according to NUST regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification.

Graduates of the Bachelor programme will be able to pursue further studies in Natural Resource Management, or a related field, at NQF level 8.

Mode of Delivery
This programme will only be offered on full-time mode in accordance with NUST rules.

Requirements for Qualification Award
The Bachelor of Natural Resource Management will be awarded to students credited with a minimum of 363 NQF credits. In addition, students should meet the administrative and financial requirements as defined in the Yearbook of NUST.

Teaching and learning strategies
The requirements of the NQF underline the acquisition of cognitive skills and competencies exceeding the knowledge and understanding of subject-specific knowledge items and professional/technical competencies. Thus, the qualification focuses on the engagement of students in an interactive learning process in order to provide for the development of generic cognitive and intellectual skills, key transferable skills, and, as the case may be, subject-specific and/or professional/technical practical skills. This learning process will be facilitated both in and outside the classroom, requiring specific tasks to be carried out by students. This facilitation will make use of a variety of appropriate methods that will encourage the use of the latest, innovative technologies available, such as making use of digital library resources, E-learning Support System portal, apt scientific internet resources, the use of cell phone Apps and aerial and photographic imagery for natural resource monitoring, to transfer skills appropriate to each course. The progress of learning embedded in such tasks will be monitored, recorded and assessed.

Assessment strategies
In addition to the general requirements of Senate, the assessment of the student's academic performance will be on the basis of a semester mark and examination mark. Assessment will be according to the course specifications for the different courses. A semester mark of 40% is required for admission to the examinations and all courses require a final mark of at least 50% to pass. A ratio of 60:40 Continuous assessments: Formal examination will apply to all courses for the final mark except where stipulated otherwise in the course syllabus. A subminimum of 40% is required to pass the examination.

Work-Integrated Learning
The Bachelor degree student must undergo compulsory Work-integrated Learning in the fifth semester of the programme. Before deciding on a duty station, he/she should make sure that the activities required by the department will be available. A minimum overall pass of 50% is required. A minimum of 40% is required for the research/monitoring project. It is recommended that students should have at least a code B driver's license before going on Work Integrated Learning.

Quality Assurance requirements

Each course (please refer to the detailed Qualification Requirements) will have one or more examiners and one moderator. Identified moderators can be either internal or external. The required minimum qualification of the moderator will be at least an Honours degree, except in the case of technical courses. The moderators must also be knowledgeable individuals who are well-respected experts in the field and must be approved by Senate. Lecturing staff will set and mark tests and/or examinations in accordance with set memoranda. The examinations, memoranda and course outlines will be forwarded to moderators for moderation. This ensures the quality and equity of assessments and the qualification as a whole. All level 7 courses for this programme will be moderated externally.

Transition Arrangements

The Bachelor of Natural Resource Management (Nature Conservation) (old curriculum) will be phased out systematically until 2024, with minimal disruption to existing students' learning progression. The last intake of 1st year students for the out-phasing programme (old curriculum) was in January 2019.

CURRICULUM

Year 1 Semester 1				
Course Code	**Course Title**	**Prerequisites**	**NQF Level**	**NQF Credits**
CSE511S	Conservation Ecology 1	None	5	11
BNS511S	Biology for Natural Sciences	None	5	10
TNM511S	Techniques for Natural Resource Management	None	5	11
IGD411S	Introduction to Geospatial Data	None	4	8
MAT111S	Introduction to Mathematics	None	5	10
CUS411S	Computer User Skills	None	4	10
PLU411S	Principles of English Language use	None	4	NCB
Year 1 Semester 2				
PTS620S	Plant Studies 1	Biology for Natural Sciences	6	11
EEE621S	Environmental Education and Extension	None	6	12
ZLY520S	Zoology 1	None	5	10
LME520S	Leadership and Management for Eco-enterprises	None	5	9
LFN520S	Legal Framework for Natural Resources	None	5	9
WMH620S	Wildlife Monitoring and Handling	None	6	11
Year 2 Semester 3				
PTS710S	Plant Studies 2	Plant Studies 1	7	12
WWR711S	Water and Wetland Resources Management	None	7	12
IAS501S	Introduction to Applied Statistics	None	5	12
GES512S	Geographic Information Systems 1	Introduction to Geospatial Data	5	12
REM611S	Rangeland Ecology and Management	None	6	12
EPR511S	English in Practice	Principles of English Language use	5	NCB
Semester 4				
CSE621S	Conservation Ecology 2	Conservation Ecology 1	6	12
ZLY621S	Zoology 2	None	6	11
BRM622S	Basic Research Methods (NRM)	Introduction to Mathematics	6	12
CP621S	Community Conservation and Protected Area Management	None	6	12
EAP511S	English for Academic Purposes	English in Practice	5	14
Semester 5				
WIN710S	Work- Integrated Learning	All courses of the first 4 semesters must have been passed, or at least examination admission obtained. Exceptions may be approved by the Departmental Board.	7	60

Semester 6

BCM721S	Biodiversity Conservation and Management	Rangeland Ecology and Management; Wildlife Monitoring and Handling	7	12
EMP721S	Environmental Management Principles	None	7	12
SYD611S	Sustainability and Development	None	6	12
FMG620S	Financial Management for Natural Resources	Introduction to Mathematics	6	12
CSE721S	Conservation Ecology 3	Conservation Ecology 2	7	12

BACHELOR OF NATURAL RESOURCE MANAGEMENT IN NATURE CONSERVATION 07BNTC
(Phasing out until 2024)

NQF Level: 7 **NQF Credits: 372** **NQF Qualification ID: Q0229**

Description
NATURAL RESOURCE MANAGEMENT
The Bachelor of Natural Resource Management in Nature Conservation supports students in the field of Natural Resource Management in Nature Conservation to acquire the necessary knowledge, skills and attitudes to ensure the sustainable utilisation of Namibia's natural resources, with the focus on conservation. This will allow graduates to contribute towards the national economy of Namibia. Graduates will typically be employed in positions such as Natural Resource Managers (middle management positions), Nature Conservationists, Environmental Education Officers, Environmental Practitioners, Research Assistants, Tour Guides, etc.

Admission Requirements
Candidates may be admitted to the Bachelor of Natural Resource Management in Nature Conservation if they meet the General Admission Requirements of the University Senate and complies with the following additional requirements:

- A pass in Biology or a Biology-related subject, with at least a C symbol at NSSC Ordinary Level;
- A pass in Mathematics with at least an E symbol at NSSC Ordinary Level;
- A pass in English with at least a D symbol at NSSC Ordinary Level.

Candidates who meet the Mature Age Entry requirements of the Namibia University of Science and Technology (GI2.2 in Part 1 of the NUST Yearbook) will be considered, but may be required to pass an additional admission test, compiled by the Department of Nature Conservation.

Candidates must be medically fit, since field and physical work form an integral part of this study programme.

Examination Requirements (Bachelor of Natural Resource Management: Nature Conservation)
In addition to the general requirements of Senate, the assessment of the student's academic performance will be on the basis of a semester mark and examination mark. Assessment will be according to the syllabus description for the different courses. A semester mark of 40% is required for admission to the examinations and all courses require a final mark of at least 50% to pass. Continuous Assessment, for both theory and practical's, contributes 60% to the final mark of all Bachelor degree courses presented by Nature Conservation, except where stipulated otherwise in the course syllabus. A written examination of three hours (one paper) contributes 40% to the final mark and a sub minimum of 40% is required. The proportion of overall marks allocated to theory and practicals should correlate with the proportion of time allocated to each.

All core courses will be evaluated according to the evaluation criteria of those Departments.

Work-integrated Learning
The Bachelor degree student must undergo compulsory Work-integrated Learning in the fifth semester of the programme. Before deciding on a duty station, he/she should make sure that activities required by the programme will be available. A minimum overall pass of 50% is required. A minimum of 40% is required for the research/monitoring project. It is recommended that students should have at least a code 8 driver's license before going on Work-integrated Learning.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisite	NQF Level	NQF Credits
NCE510S	Nature Conservation Ecology 1	None	5	12
NCB510S	Nature Conservation Biology	None	5	12
BMS411S	Basic Mathematics	None	4	12
PLU411S	Principles for English Language Use	None	4	NCB
BSC410S	Basic Science	None	4	8
CUS411S	Computer User Skills	None	4	10

Semester 2

NCE620S	Nature Conservation Ecology 2	Nature Conservation Ecology 1 Basic Mathematics	6	13
PTS620S	Plant Studies 1	Nature Conservation Biology	6	13
ALS520S	Animal Studies 1	Nature Conservation Biology	5	12
NCT420S	Nature Conservation Techniques 1	None	4	12
EPR511S	English in Practice Principles of English Language Use	Language in Practice/	5	NCB
ICT521S	Information Competence	None	5	10

Year 2
Semester 3

ALS610S	Animal Studies 2	None	6	13
PTS710S	Plant Studies 2	Plant Studies 1	7	13
AEM610S	Aquatic Ecosystem Management	None	6	13
NRM612S	Natural Resource Management (Nature Conservation) 1 Animal Studies 2	Ecology 1 and 2 Co-requisites: Plant Studies 2	6	13
MTP612S	Management Principles	Nature Conservation Techniques 1	6	9
NCL612S	Nature Conservation Law Enforcement	Language in Practice/ Principles of English Language Use	6	9

Semester 4

MEE620S	Methodology of Environmental Education	English in Practice	6	13
NCT520S	Nature Conservation Techniques 2	Nature Conservation Techniques 1	5	12
FMN520S	Financial Management (Nature Conservation) Computer User Skills	Basic Mathematics,	5	9
ECD520S	Environmental Conservation Development	None	5	9
BRM620S	Basic Research Methodology (Nature Conservation)	Basic Mathematics, English in Practice, Computer User Skills	6	9
EAP511S	English for Academic Purposes	English in Practice	5	14

Year 3
Semester 5

WIN710S	Work-Integrated Learning (Nature Conservation)	All courses of the first 4 semesters must have been passed, or at least examination admission obtained. Exceptions may be approved by the Departmental Board.	7	60

Semester 6

NRM720S	Natural Resource Management (Nature Conservation) 2	Natural Resource Management (Nature Conservation) 1 and Techniques 2 Co-requisites: Techniques 3 Animal Studies 3	7	13
NCE720S	Nature Conservation Ecology 3	Nature Conservation Ecology 2	7	13
ALS720S	Animal Studies 3	Animal Studies 2	7	13
CIS610S	Contemporary Issues	None	6	12
NCT620S	Nature Conservation Techniques 3	Nature Conservation Techniques 2 Basic Mathematics Computer User Skills	6	13

DEPARTMENT OF LAND AND PROPERTY SCIENCES — CODE 93

QUALIFICATIONS OFFERED

Diploma in Property Studies (Revised- Phased in 2017)	06DPRS
Diploma in Property Studies (Phasing out from 2017 till 2020))	27DPRS
Diploma in Land Administration (Phasing out from 2020)	06DLAD
Bachelor of Property Studies (Revised- Phased in 2017)	08BPRS
Bachelor of Land Administration (Revised Programme) (Phasing in 2020)	07BLAM
Bachelor of Land Administration (Phasing out in 2020)	07BLAD

PROPERTY STUDIES PROGRAMMES

(Offered FULL-TIME MODE only)

Programmes Description

The primary aim of the Diploma and Bachelor of Property Studies programmes is to train and produce graduates employable respectively at the technical and professional levels of the property industry. The graduates of the programmes will be equipped with competencies in advanced property valuation methods, facilities managerial skills of buildings and be capable of making sound and well-informed judgments regarding relevant legislation. It focuses on a comprehensive and analytical understanding of property valuation, property management, property investment and finance and develops the knowledge and skills to value and manage real property.

These programmes also aims at developing capacity and human resource needs of Namibia in the real estate sector to facilitate the implementation of the Namibian Land Reform programme. Graduates are employable as property managers and assistant valuers in the central and local government property offices and a variety of private businesses.

The degree programme offers graduates who have successfully completed their Diploma in Property Studies, or any other relevant equivalent Diploma, the opportunity to pursue a degree qualification programme in the property profession at the Namibia University of Science and Technology.

DIPLOMA IN PROPERTY STUDIES (Revised) (Phased in 2017) — 06DPRS

NQF Level: 6 | **NQF Credits: 230** | **NQF Qualification ID: Q0942**

Admission Requirements

Applicants may be considered for admission to the Diploma in Property Studies programme if they meet the NUST's General Admission Requirements (Gl2.1 in Part 1 of the Yearbook). In addition, students should have at least an E in NSSC (O) for Mathematics and English Language. Candidate admitted with English Language grade other than a minimum B symbol must enroll for the appropriate English communication course at lower levels within the first year of studies in order to acquire the competencies.

Mature age applicants may be considered for admissions according to NUST's Mature Age Entry Scheme.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisite	NQF Level	NQF Credits
CUS411S	Computer User Skills	None	4	10
IGD411S	Introduction to Geospatial Data	None	4	8
BSC410S	Basic Science	None	4	8
MSS511S	Mathematics & Statistics for Spatial Sciences	None	5	12
PMI511S	Principles of Microeconomics	None	5	12
Semester 2				
BCS520S	Building Construction & Services	None	5	12
ITV521S	Introduction to Valuation	None	5	12
ICT521S	Information Competence	None	5	10
LEM621S	Land Economics	None	6	12
LTS520S	Land Tenure Systems	None	5	12
Year 2				
Semester 3				
CML111S	Commercial Law 1A	None	5	12
ILP510S	Introduction to Land Use Planning and Management	None	5	12
PMT611S	Property Maintenance	None	6	12
PMV611S	Principles and Methods of Valuation	Introduction to Valuation	6	12
PDM611S	Property Development and Marketing	None	6	12
Semester 4				
GES512S	Geographic Information Systems 1	Computer User Skills, Introduction to Geospatial Data	5	12
EAP511S	English for Academic Purposes	English in Practice, Language in Practice B, or Module 3	5 5	12 14
LLA520S	Law for Land Administration 1	Commercial Law 1A	5	12
UEN621S	Urban Economics	Principles of Microeconomics	6	12
REP621S	Real Estate Practice	Principles and Methods of Valuation, Building Construction and Services	6	12

Transition Arrangements
Credit and transition arrangements for courses which have been either amended or merged in the Diploma in Property Studies programme are as set out in the tables below.

Credit table: Courses to be credited

Diploma in Property Studies (Old Courses)		Diploma in Property Studies (Equivalent Revised Course)	
Course Code	**Course Name**	**Course Code**	**Course Name**
PPM610S	Property Management	PMT611S	Property Maintenance
PDM520S PDM610S	Property Development and Marketing 1 Property Development and Marketing 2	PDM611S	Property Development and Marketing
VAL520S	Valuation 1	ITV521S	Introduction to Valuation
VAL610S	Valuation 2	PMV611S	Principles and Methods of Valuation
PFN620S	Property Finance1	PFI721S	Property Finance and Investment
REP610S	Real Estate Practice 1	REP621S	Real Estate Practice
UBE510S	Urban Economics	UEN621S	Urban Economics

Transition table: Corresponding course(s) to enroll should a student repeat a course

Diploma in Property Studies (Old Courses)		Diploma in Property Studies (Equivalent Revised Course)	
Course Code	**Course Title**	**Course Code**	**Course Title**
LEC520S	Land Economics	LEM621S	Land Economics
PPM610S	Property Management	PMT611S	Property Maintenance
PDM520S	Property Development and Marketing 1	PDM611S	Property Development and Marketing
PDM610S	Property Development and Marketing 2	PDM611S	Property Development and Marketing
UBE510S	Urban Economics	UEN621S	Urban Economics
IDB220S	Introduction to Databases 1B	DBF5105	Database Fundamentals
VAL520S	Valuation 1	ITV521S	Introduction to Valuation
VAL610S	Valuation 2	PMV611S	Principles and Methods of Valuation
PFN620S	Property Finance 1	PFI721S	Property Finance and Investment

DIPLOMA IN PROPERTY STUDIES **27DPRS**
(Phasing out from 2017 until 2020)

NQF Level: 6 **NQF Credits: 285** **NQF Qualification ID: Q0155**

Admission Requirements
The applicant must have passed Grade 12 and must meet the general University's admission requirements of at least 25 aggregate points in five subjects and comply with the following additional requirements:

- Must have obtained good passes in English and Mathematics with minimum D symbols at NSSC (Ordinary) level.
- Candidates may be admitted into any level (module) of English Communication but would be required to advance to English for Academic Purposes by Year 3 Semester 5 if they wish to complete the Diploma in Property Studies.
- A pass in Geography with minimum D symbol is highly recommended.
- Proof of competence in basic computer usage (for exemption from taking Computer User Skills).

Mature age applicants and applicants with foreign qualifications may be considered for admission.

CURRICULUM

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
Year 1				
Semester 1				
CUS411S	Computer User Skills	None	4	10
MMS410S	Mathematics & Statistics	None	4	12
EPR511S	English in Practice	Language in Practice/ Principles of English Language Use	5	NCB
PMI511S	Principles of Microeconomics	None	5	12
Semester 2				
BCS520S	Building Construction & Services	None	5	12
VAL520S	Valuation 1	Principles of Microeconomics & Mathematics and Statistics	5	12
PDM520S	Property Development & Marketing 1	None	5	12
LEC520S	Land Economics	Principles of Microeconomics 1A	5	12
Year 2				
Semester 3				
PPM610S	Property Management	Building Construction & Services	6	12
CML111S	Commercial Law 1A	None	5	12
GES512S	Geographic Information Systems 1	Computer User Skills and Introduction Introduction to Geo-Spatial Data	5	12
VAL610S	Valuation 2	Valuation 1	6	12
ILP510S	Introduction to Land Use Planning and Management	None		10
Semester 4				
PFN620S	Property Finance 1	None	6	12
LLA520S	Law for Land Administration 1	Commercial Law 1A	5	12
IDB220S	Introduction to Databases 1B	Computer User Skills	5	12
UBE510S	Urban Economics	Principles of Microeconomics	5	12
Year 3				
Semester 5				
REP610S	Real Estate Practice 1	Property Management, Property Finance 1 & Valuation 2	6	36
PDM610S	Property Development & Marketing 2	Property Development & Marketing 1	6	12
EAP511S	English for Academic Purposes	English in Practice (Diploma only)	5	14
Semester 6				
IPS620S	In-Service Training	Real Estate Practice 1 Not allowed to repeat or attend classes (Full-Time) for more than 1 course while doing In-Service Training.	6	35

LAND ADMINISTRATION PROGRAMMES

(All programmes are offered on FULL-TIME mode only)

Definition

The programme provides a systematic and coherent introduction to the knowledge principles, concepts, data, theories and problem-solving techniques of the land administration sector. The programme further aims at capacitating graduates with the practical and theoretical skills necessary for successful land administration and applied technologies that can be used as decision supporting tools. The focus of the programme is on the development of essential practical skills alongside training in contemporary land administration practices, concepts and theories. Overall, the Bachelor of Land Administration aims to:

- Introducing students to subject disciplines, including theory and methods, so they acquire a broad professional knowledge and ability;
- Providing students with the academic knowledge and the theoretical skills to independently formulate, and solve problems within the field of land administration;
- Providing a structured and flexible learning framework with an appreciation for further and life-long learning;
- Providing an educational foundation for a range of land management and land administration careers;
- Developing systematic and coherent range of skills and techniques, necessary for the successful performance in the land administration work place;
- Formulating integrated and interdisciplinary solutions that relate to practical challenges in the design and operation of Land Administration Systems across a variety of tenure regimes in formal and informal sectors;
- Disseminating project results and workflows in a clearly structured, coherent, and concise manner, both in writing, graphically and orally.

On completion, of this programme graduates will be qualified to serve in a wide range of activities involving land management and administration. Graduates will be able to take up positions in public and private sectors in positions such as land administrators (of urban and rural land), land registration officers (of land rights in the different land tenure systems in place in Namibia), property officers, land technicians, social survey clerks, land project administrators, land analysts, land development administrators and advisors in the public sector (national, regional and local level) as well as in large engineering, architecture, conveyancing and town planning companies and non-governmental organisations. Due to the multi-disciplinary nature of this programme, this degree presents a gateway to academic careers in cognate areas for some students, and for others it will facilitate career advancement in their current fields of employment, in either the public or private sector

DIPLOMA IN LAND ADMINISTRATION **06DLAD**
(Phasing out in 2020)

NQF Level: 6 **NQF Credits: 222** **NQF Qualification ID: Q0738**

Admission Requirements
Applicants may be considered for admission to the Diploma in Land Administration programme if they meet the University's General Admission Requirements (GI12.1 in Part 1 of the NUST Yearbook). In addition, students should have at least an E in NSSC(O) Mathematics.

Mature age applicants and applicants with foreign qualifications, may be considered for admission according to the University's Mature Age Entry Scheme.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisite	NQF Level	NQF Credits
CUS411S	Computer User Skills	None	4	10
IGD411S	Introduction to Geo-spatial Data	None	4	8
MSS511S	Mathematics and Statistics for Spatial Science	None	5	12
PLU411S	Principles of English Language Use	None	4	NCB
CML111S	Commercial Law 1A	None	5	12
EVP510S	Environmental Planning	None	5	12

Semester 2

LLA520S	Law for Land Administration 1	Commercial Law 1A	5	12
ISM520S	Introduction to Survey and Mapping	Introduction to Geo-Spatial Data	5	12
GES512S	Geographic Information Systems 1	Computer User Skills, Intro. to Geo-Spatial Data	5	12
LTS520S	Land Tenure Systems	None	5	12
DRL520S	Deeds Registration Law 1	None	5	12
EPR511S	English in Practice	Language in Practice/Principles of English Language Use, Language in Practice A, or Module 2	5	NCB

Year 2
Semester 3

LLA610S	Law for Land Administration 2	Commercial Law 1A	6	12
ICT521S	Information Competence	None	5	10
LIS611S	Land Information Systems	Geographic Information Systems 1	6	12
DRL610S	Deeds Registration Law 2	Deeds Registration Law 1	6	12
ILP510S	Introduction to Land Use Planning and Management	None	5	12

Semester 4

GES612S	Geographic Information Systems 2	Geographic Information Systems 1	6	12
CMT620S	Conflict Management	None	6	12
EAP511S	English for Academic Purposes	English in Practice B, Module 3 or Exemption	5	14
LTM621S	Land Tenure Management	None	6	12

BACHELOR OF PROPERTY STUDIES (Revised) (Phased in 2017) **08BPRS**

NQF Level: 8 **NQF Credits: 498** **NQF Qualification ID: Q0941**

Admission Requirements

Applicants may be considered for admission to the Bachelor of Property Studies programme provided they meet the NUST's General Admission Requirements. In addition, candidates must have obtained 30 aggregate points on the evaluation scale over the best five (5) subjects.

Applicants must comply with the following additional requirements:

- Must have obtained E in Mathematics and English Language. Preference will be given to candidates with a minimum B (Ordinary level) or 4 (Higher level) in English Language. If a candidate does not have a minimum B in English, he/she must acquire the competencies within the first year of studies by enrolling for the appropriate English communication course at lower levels.

Graduates with the Diploma qualification in Land Valuation and Estate Management from the Polytechnic of Namibia (category A) may apply for "admission with advanced standing" and may be admitted into Year 3 Semester 5 of the programme offered at the discretion of the department.

Graduates with a Diploma qualification in Property Studies (NQF Level 6) 27DPRS from the NUST/Polytechnic of Namibia or equivalent qualification from recognised institutions (category B) may apply for admission into the Bachelor of Property Studies (NQF Level 8) programme. If successful these applicants may be admitted into Year 3 semester 5 of the Bachelor programme. Courses completed under the Diploma qualification will be credited, but students will be required to enroll for Land Tenure Systems (LTS520S) in Year 3 Semester 6 and Land Administration in Year 4 Semester 7.

Graduates with the revised Diploma qualification in Property Studies (NQF Level 6) 06DPRS from NUST (category C) may apply for admission into the Bachelor of Property Studies (NQF Level 8) programme. If successful these applicants may be admitted into Year 3 semester 5 of the Bachelor programme. Courses completed under the Diploma will be credited, but students will be required to complete all outstanding courses as per the requirements of the Bachelor of Property Studies programme.

With regard to Categories A, B and C, acceptance of applicants into the Bachelor degree programme would be considered on a case by case basis on the recommendation of the Departmental Board in consultation with the Registrar.

NUST students pursuing the Diploma in Property Studies (NQF Level 6) 06DPRS (category D) may be admitted, after application for transfer to the Bachelor of Property Studies (NQF Level 8) programme provided that they have obtained at least 60% in Introduction to Valuation and Building Construction and Services at the end of Year 1, Semester 2. Courses completed under the Diploma will be credited, but students will be required to complete all outstanding courses as per the requirements of the Bachelor of Property Studies NQF Level 8 programme. However, acceptance of these applicants into the Bachelor degree programme would be considered on a case by case basis on the recommendation of the Head of Department in consultation with the Registrar.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
CUS411S	Computer User Skills	None	4	10
IGD411S	Introduction to Geospatial Data	None	4	8
BSC410S	Basic Science	None	4	8
MSS511S	Mathematics & Statistics for Spatial Sciences	None	5	12
PMI511S	Principles of Microeconomics	None	5	12
BAC1100	Business Accounting 1A	None	5	10
Semester 2				
BCS520S	Building Construction & Services	None	5	12
ITV521S	Introduction to Valuation	None	5	12
ICT521S	Information Competence	None	5	10
PMA512S	Principles of Macroeconomics	None	5	12
LTS520S	Land Tenure Systems	None	5	12

Year 2
Semester 3

CML111S	Commercial Law 1A	None	5	12
ILP510S	Introduction to Land Use Planning and Management	None	5	12
PMT611S	Property Maintenance	None	6	12
PMV611S	Principles and Methods of Valuation	Introduction to Valuation	6	12
PDM611S	Property Development and Marketing	None	6	12

Semester 4

GES512S	Geographic Information Systems 1	Computer User Skills, Introduction to Geospatial Data	5	12
EAP511S	English for Academic Purposes	English in Practice, , Language in Practice B or Module 3	5	14
LLA520S	Law for Land Administration 1	Commercial Law 1A	5	12
LEM621S	Land Economics	None	6	12
UEN621S	Urban Economics	Principles of Microeconomics	6	12

Year 3
Semester 5

CIS610S	Contemporary Issues	None	6	12
LIS611S	Land Information Systems	Geographic Information Systems 1	6	12
LAD710S	Land Administration	Land Tenure Systems	7	12
PSP711S	Professional Practice (Property Studies)	Principles and Methods of Valuation, Building Construction and Services	7	12
CAR720S	Computer Applications to Real Estate	Computer User Skills	7	12

Semester 6

PQS721S	Principles of Quantity Surveying	Building Construction & Services	7	12
PLP721S	Procurement and Logistics for Property Management	None	7	12
PFI721S	Property Finance and Investment	None	7	12
REM821S	Real Estate Market Analysis	Property Development and Marketing	8	15
FMM821S	Facilities Management	Property Maintenance	8	15

Year 4
Semester 7

AVT811S	Applied Valuation	Principles and Methods of Valuation	8	15
APF811S	Advanced Property Finance and Investment	Property Finance and Investment	8	15
RMD811S	Research Methodology	None	8	15
PLM811S	Project Leadership and Management	None	8	15

Semester 8

WPS821S	Work Integrated Learning	Pass in all courses from semester 1-7 (inclusive)	8	30
MPS821S	Mini-Thesis	Research Methodology	8	42

Credit Table: Reflecting which OLD COURSE grants credit for which NEW COURSE

(OLD COURSES)		(NEW COURSES – TO BE CREDITED)	
Course Code	**Course Name**	**Course Code**	**Course Name**
PPM610S	Property Management	PMT611S	Property Maintenance
PDM610S	Property Development and Marketing 2	PDM611S	Property Development and Marketing
VAL520S	Valuation 1	ITV521S	Introduction to Valuation
VAL610S	Valuation 2	PMV611S	Principles and Methods of Valuation
VAL810S	Valuation 3	AVT811S	Applied Valuation
PFN810S	Property Finance 2	PFI721S	Property Finance and Investment
PPI820S	Property Investment	APF811S	Advanced Property Finance and Investment
REP810S	Real Estate Practice 2	PSP711S	Professional Practice (Property Studies)
LEC520S LTX520S	Land Economics Land Taxation	LEM621S	Land Economics
UBE510S	Urban Economics	UEN621S	Urban Economics
BEC620S	Building Economics	PQS721S	Principles of Quantity Surveying
RPB820S	Research Project	MPS821S	Mini-Thesis
ISB720S	In-Service Training	WPS821S	Work Integrated Learning (Property Studies)

Transition Table: Corresponding Course to be done if a course is failed (THIS IS NOT A CREDIT TABLE)

OLD COURSES FAILED		(NEW COURSES – TO BE DONE)	
Course Code	**Course Title**	**Course Code**	**Course Title**
BEC620S	Building Economics	PQS721S	Principles of Quantity Surveying
LEC520S	Land Economics	LEM621S	Land Economics
LTX520S	Land Taxation	LEM621S	Land Economics
ISB720S	In Service Training	WPS821S	Work Integrated Learning
RPB820S	Research Project	MPS821S	Mini-Thesis
VAC520S REP820S	Valuation Casework Real Estate practice 2	PSP711S	Professional Practice (Property Studies)
PPM610S	Property Management	PMT611S	Property Maintenance
PDM520S	Property Development and Marketing 1	PDM611S	Property Development and Marketing
PDM610S	Property Development and Marketing 2	PDM611S	Property Development and Marketing
UBE510S	Urban Economics	UEN621S	Urban Economics
IDB220S	Introduction to Databases 1B	DBF510S	Database Fundamentals
OMP510S	Organisational Management and Practice	PLM811S	Project Leadership and Management
VAL520S	Valuation 1	ITV521S	Introduction to Valuation
VAL610S	Valuation 2	PMV611S	Principles and Methods of Valuation
VAL810S	Valuation 3	AVT811S	Applied Valuation
PFN620S	Property Finance 1	PFI721S	Property Finance and Investment
PFN810S	Property Finance 2	APF811S	Advanced Property Finance and Investment
PPI810S	Property Investment	APF811S	Advanced Property Finance and Investment

The following courses do not have corresponding courses in the Diploma and Bachelor of Property Studies (revised curricula) and therefore will be offered until the old curricula are completely phased out in 2020 and 2021 respectively:

- In-Service Training (IPS620S)
- Introduction to Survey and Mapping (ISM520S)
- Project Leadership and Management (PLM811S)
- Innovation, Creativity and Entrepreneurship (ICE710S)

Transition Arrangements

The revised Diploma and Bachelor of Property Studies programmes are implemented incrementally (year-by-year transition) beginning with 1st year intake in 2017 academic year. The old Bachelor and Diploma qualifications will completely phase out in 2021 and 2020 respectively.

Continuing students, (second, third and final year cohorts) will all be allowed to proceed with the old curriculum.

First year students of the old curriculum who fail more than 50% of the courses at the end of 2016 academic year will have to transfer to the corresponding revised programme and thus be required to fulfill all the requirements of the new programme. They will be granted credit for courses completed under the old curriculum as set out in the table above.

BACHELOR OF LAND ADMINISTRATION **07BLAD**
(Phasing out as of 2020)

NQF Level: 7 **NQF Credits: 384** **NQF Qualification ID: Q0159**

Admission Requirements
Applicants may be considered for admission to the Bachelor of Land Administration programme provided they meet the University's General Admission Requirements. In addition, candidates must have a total of 18 points on the evaluation scale for Mathematics, English, and Geography or Physics in a combination of symbols on NSSC Higher or Ordinary Level or both. If candidates do not have a minimum B in English, he/she must acquire the competences within the first year of studies by enrolling for the appropriate English communication modules at lower levels.

Preference will be given to candidates with a minimum B in one or more of the following school subjects: English Language, Geography, Physics, Mathematics and Computer Studies.

Candidates with a National Diploma in Land Management and Registration may apply for advanced standing into Year 3 of the Bachelor of Land Administration programme.

Candidates with a Diploma in Land Administration (06DLAD/27DLAD) may apply for advanced standing into Year 2 of the Bachelor of Land Administration programme. Successful applicants have to complete the following courses in addition to courses from Year 3, Semester 5 and 6 of the Bachelor of Land Administration (07BLAD) curriculum:

First Semester Year 2	Second Semester Year 2
Environmental Planning (EVP510S)	Principles of Macroeconomics (PMA512S)
Principles of Microeconomics (PMI511S)	Urban Economics (UBE510S)
Information Competence (ICT521S)	Deeds Registration Law 3 (DRL720S)
Contemporary Issues (CIS610S)	Property Finance 1 (PFN620S)

Mature age applicants and applicants with foreign qualifications, may be considered for admission according to the University's Mature Age Entry Scheme.

The students admitted into and pursuing the Diploma in Land Administration may apply for transfer into the Bachelor of Land Administration programme during the first year of study only. In order to qualify for such transfer the student must score at least 60% in Land Tenure Systems (LTS520S), Deeds Registration Law 1 (DRL520S) and Law for Land Administration 1 (LLA520S). Courses completed under the Diploma programme will be credited, but students will be required to complete all outstanding courses as per the requirements of the Bachelor of Land Administration qualification. However, acceptance of these applicants into the Bachelor programme will be considered on a case-by-case basis on the recommendation of the Head of Department in consultation with the Registrar.

Transition Arrangement
No admission of students into the BLAD for 2020. All second year students will be transferred to the revised Bachelor of Land Administration in 2020 Students currently registered in the old Bachelor of Land Administration (07BLAD) programme will be allowed to complete the programme latest by the end of 2020. All students who have not completed all the courses in the programme by the end of 2020 will be transitioned to the new Bachelor of Land Administration programme. Courses completed under the old Bachelor programme will be credited, but students will be required to complete all outstanding courses as per the requirements of the revised Bachelor of Land Administration qualification.

Mode of Delivery
All Land Administration programmes are offered on a full-time mode of study only in accordance with the University's rules and regulations.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisite	NQF Level	NQF Credits
PMI511S	Principles of Microeconomics	None	5	12
EVP510S	Environmental Planning	None	5	12
IGD411S	Introduction to Geo-Spatial Data	None	4	8
CML111S	Commercial Law 1A	None	5	12
ILP510S	Introduction to Land Use Planning and Management	None	5	12
CUS411S	Computer User Skills	None	4	10

Semester 2

GES512S	Geographic Information Systems 1	Computer User Skills, Intro to Geo-Spatial Data	5	12
PMA512S	Principles of Macroeconomics	None	5	12
ISM520S	Introduction to Survey & Mapping	Introduction to Geo-Spatial Data	5	12
LTS520S	Land Tenure Systems	None	5	12
LLA520S	Law for Land Administration 1	Commercial Law 1A	5	12
DRL520S	Deeds Registration Law 1	None	5	12

Year 2

Semester 3

ICT521S	Information Competence	None	5	10
LLA610S	Law for Land Administration 2	Commercial Law 1A	6	12
DBF510S	Database Fundamentals	None	5	10
DRL610S	Deeds Registration Law 2	Deeds Registration Law 1	6	12
LIS611S	Land Information Systems	Geographic Information Systems 1	6	12
EAP511S	English for Academic Purposes	English in Practice, English in Practice B Module 3 or exemption	5	14

Semester 4

UEN621S	Urban Economics	Principles of Microeconomics	6	12
GES612S	Geographic Information Systems 2	Geographic Information Systems 1	6	12
LTM621S	Land Tenure Management	None	6	12
CMT620S	Conflict Management	None	6	12
DRL720S	Deeds Registration Law 3	Deeds Registration Law 1, Law for Land Administration 2	7	12
PFN620S	Property Finance 1	None	6	12

Year 3

Semester 5

MNL711S	Management and Leadership	None	7	12
CIS610S	Contemporary Issues	None	6	12
LAD710S	Land Administration	Land Tenure Systems	7	12
STL620S	Sectional Title Legislation	Land Tenure Systems	6	6

Plus one of the following electives

CAR720S	Computer Applications to Real Estate	Geographic Information-Systems 1 and Land Information Systems	7	12
GES711S	Geographic Information Systems 3	Geographic Information Systems 2	7	12
DRM721S	Disaster Risk Management	None	7	14
DMA111S	Development Management	None	7	14

Semester 6

ISL720S	Information Systems Law	None	7	12
GMN621S	Geo-information Management	Geographic Information Systems 1	6	12
WLA721S	Work Integrated Learning: Land Administration	Pass in all courses from Sem 1 – 5 (incl.)	7	38

BACHELOR OF LAND ADMINISTRATION **07BLAM**
(Revised) (Phased in 2020)

Definition

The programme provides a systematic and coherent introduction to the knowledge principles, concepts, data, theories and problem-solving techniques of the land administration sector. The programme further aims at capacitating graduates with the practical and theoretical skills necessary for successful land administration and applied technologies that can be used as decision supporting tools. The focus of the programme is on the development of essential practical skills alongside training in contemporary land administration practices, concepts and theories. Overall, the Bachelor of Land Administration aims to:

- Introducing students to subject disciplines, including theory and methods, so they acquire a broad professional knowledge and ability;
- Providing students with the academic knowledge and the theoretical skills to independently formulate, and solve problems within the field of land administration;
- Providing a structured and flexible learning framework with an appreciation for further and life-long learning;
- Providing an educational foundation for a range of land management and land administration careers;
- Developing systematic and coherent range of skills and techniques, necessary for the successful performance in the land administration work place;
- Formulating integrated and interdisciplinary solutions that relate to practical challenges in the design and operation of Land Administration Systems across a variety of tenure regimes in formal and informal sectors;
- Disseminating project results and workflows in a clearly structured, coherent, and concise manner, both in writing, graphically and orally.

On completion, of this programme graduates will be qualified to serve in a wide range of activities involving land management and administration. Graduates will be able to take up positions in public and private sectors in positions such as land administrators (of urban and rural land), land registration officers (of land rights in the different land tenure systems in place in Namibia), property officers, land technicians, social survey clerks, land project administrators, land analysts, land development administrators and advisors in the public sector (national, regional and local level) as well as in large engineering, architecture, conveyancing and town planning companies and non-governmental organisations. Due to the multi-disciplinary nature of this programme, this degree presents a gateway to academic careers in cognate areas for some students, and for others it will facilitate career advancement in their current fields of employment, in either the public or private sector.

Admission Requirements

Applicants may be considered for admission to the Bachelor of Land Administration programme provided they meet the Namibia University of Science and Technology's General Admission Requirements. In addition, candidates must have passed at least five subjects and have obtained a total score of at least 25 points on the evaluation scale. Where candidates offer more than five subjects, the best five, including English language, will be counted. Applicants must comply with the following additional requirements:

- Must have obtained an E symbol in Mathematics and English Language. Preference, however, will be given to candidates with a minimum B (Ordinary level) or 4 (Higher level) in English Language. If applicants do not have minimum B in English, such candidates must acquire the competencies within the first year of studies by enrolling for the appropriate English communication courses at lower levels.
- Candidates with a National Diploma in Land Management and Registration (27DLMR) may apply for advanced standing into Year 3 of the Bachelor of Land Administration programme.

Candidates with a Diploma in Land Administration (27DLAD or 06DLAD) may apply for advanced standing into Year 2 of the Bachelor of Land Administration programme on condition that they take the following first year courses to make up for the deficiencies:

- Environmental Planning (EVP510S), (to be taken by 27DLAD holders):
- Principles of Microeconomics (PMI511S);
- Introduction of Valuation (ITV521S);
- Database Fundamentals (DBF510S);
- Legal and Institutional Framework (LIF511S), (to be taken by 06DLAD holders).

Mature age candidates will be considered provided they meet the requirements and pass the mature age entrance examinations of the NUST (GI2.2 in Part 1 of the NUST Yearbook).

Articulation Arrangements

Transfer of credits will be dealt with according to NUST's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification.

Graduates of the Bachelor of Land Administration programme will ordinarily be able to pursue further studies in land administration, or a related cognate area of learning, at NQF level 8.

Mode of Delivery

The programme will be offered on a full-time mode of study in accordance with NUST rules and regulations.

CURRICULUM

Course Code	Course Title	Prerequisite	NQF Level	NQF Credits
Year 1				
Semester 1				
MSS511S	Mathematics and Statistics for Spatial Science		5	12
CUS411S	Computer User Skills	None	4	10
DBF510S	Database Fundamentals	None	5	10
EVP510S	Environmental Planning	None	5	12
IGD411S	Introduction to Geo-Spatial Data	None	4	8
ILP510S	Introduction to Land Use Planning and Management	None	5	12
PMI511S	Principles of Microeconomics	None	5	12
Semester 2				
GES512S	Geographic Information Systems 1	Computer User Skills, Intro to Geo-	5	12
LIF511S	Legal and Institutional Framework		5	12
	English in Practice			
ISM520S	Introduction to Survey & Mapping	Introduction to Geo-Spatial Data	5	12
ITV521S	Introduction to Valuation	None	5	12
LTS520S	Land Tenure Systems	None	5	12
Year 2				
Semester 3				
ICT521S	Information Competence	None	5	10
EAP511S	English for Academic Purposes	English in Practice, English in Practice B Module 3 or exemption	5	14
EVP510S	Environmental Planning	None	5	12
LIS611S	Land Information Systems	Geographic Information Systems 1	6	12
LLR611S	Law for Land Registration	None	6	12
Semester 4				
ISL720S	Information Systems Law	None	7	12
IAL620S	Innovative Approaches to Land Administration	None	6	12
LEM621S	Land Economics	None	6	12
CMT620S	Conflict Management	None	6	12
MLR62OS	Mortgages and Other Land Rights			
Elective				
PFI721S	Property Finance and Investment			
Year 3				
Semester 5	None			
MNL711S	Management and Leadership	None	7	12
LAT710S	Land Administration Theory and Practice	Land Tenure Systems	7	12
GSI720S	Governance and Spatial Information Management	None	7	12
LUP610S	Land Use Planning 2	Introduction to Land Use Planning and Management	6	12
GSI720S	Governance and Spatial Information Management	None	7	12
Plus one of the following electives:				
CAR720S	Computer Applications to Real Estate	Geographic Information-Systems 1 and Land Information Systems	7	12

GES711S	Geographic Information Systems 3	Geographic Information Systems 2	7	12
DRM721S	Disaster Risk Management	None	7	14
DMA111S	Development Management	None	7	14

Semester 6

SYD611S	Sustainability and Development	None	6	12
PML720S	Project Management for Land Administration	Geographic Information Systems 1	7	12
WLA721S	Work Integrated Learning: Land Administration	Pass in all courses from Sem 1 – 5 (incl.)	7	38

Teaching and learning strategies

The requirements of the NQF underline the acquisition of cognitive skills and competencies exceeding the knowledge and understanding of subject specific knowledge items and professional/technical competencies. Thus, the qualification focuses on the engagement of students in an interactive learning process in order to provide for the development of generic cognitive and intellectual skills, key transferable skills, and, as the case may be, subject specific and/or professional, technical as well as practical skills.

The programme espouses a socio-constructivist approach to learning in which learning is viewed as an active, constructive process rather than a passive, reproductive process. This learning process will be facilitated both in and outside the classroom, requiring specific tasks to be carried out by the student. The learning facilitation will make use of student-centred, engaging and active learning methods which include lectures, seminars, practical assignments, workshops, study visits, discussions and debates, as well as problem based learning and structured (unsupervised) self-study and/or group work, case studies, lecturer feedback, projects and guest lectures. The progress of learning will be monitored, recorded and assessed.

Assessment strategies

Students will be assessed through formative and summative assessment. These assessments will focus on the achievement of qualification outcomes, take the form of problem-solving exercises, individual and group assignments and presentations, case studies, essay, and report writing, practical application of skills and competencies and questioning (tests and/or examinations). The use of validating end of term assessments may be minimised in order to free students' intellectual capacity for broader cognitive development.

Assessment by means of tests and/or examinations will, therefore, be restricted to situations where it is necessary to establish that a previous specific performance can be repeated or a specific skill can be transferred. In accordance with NUST policy on diversified continuous assessment, each course will have a minimum of four assessment events, unless otherwise specified in the course syllabus. Courses that are assessed using a combination of continuous assessment and end-of-term examination will have at least two assessments.

Quality Assurance requirements

Each course will have one or more examiner and one moderator. Moderators will be identified both internally and externally. The required minimum qualification of the moderator should be a Bachelor Honours degree in a related field of studies or the person must be a well-respected specialist in the field. Lecturing staff will set and mark assessments which will, together with relevant study material of that particular course and other material containing course learning outcomes in the context of the qualification learning outcomes, be forwarded to the moderator for moderation purpose, thereby, ensuring quality of the assessment and the qualification as a whole. Courses at NQF level 7 and above will be quality assured by a person external to the institution.

Transition Arrangements

The revised Bachelor of Land Administration programme will be implemented in the academic year 2020 and will be effective for all new students admitted. The existing Bachelor of Land Administration programme curriculum will phase-out latest by the end of 2020.

Students currently registered in the first year of studies of the old Bachelor of Land Administration (07BLAD) programme will, by the implementation of the revised Bachelor of Land Administration programme in 2020, be transferred on mass to the revised Bachelor programme. Students currently registered in the old Bachelor of Land Administration (07BLAD) programme will be allowed to complete the programme latest by the end of 2020. All students who have not completed all the courses in the programme by the end of 2020 will be transitioned to the new Bachelor of Land Administration programme.

Courses completed under the old Bachelor programme will be credited, but students will be required to complete all outstanding courses as per the requirements of the revised Bachelor of Land Administration qualification. Students will be credited for courses completed in the old curriculum as per Table 15.1 below. For outstanding courses they have to do corresponding courses as per Table 15.2 below. The short transition period is due to human resource constraints.

Students currently registered in the Diploma in Land Administration (06DLAD) programme will be allowed to complete the programme latest by the end of 2020. All students who have not completed all the courses in the programme by the end of 2020 will be transitioned to the new Bachelor of Land Administration programme. Courses completed under the Diploma programme

will be credited, but students will be required to complete all outstanding courses as per the requirements of the revised Bachelor of Land Administration qualification.

Courses not covered in the Diploma in Land Administration programme such as Database Fundamentals (DBF510S) and Introduction to Microeconomics (PMI511S) should be taken by students transferred to the Bachelor of Land Administration programme. Students will be credited for courses completed in the Diploma in Land Administration curriculum as per Table 15.1 below. For outstanding courses they have to do corresponding courses as per Table 15.2

Table 15.1 Courses to be credited

Bachelor of Land Administration (07BLAD) (Old Courses)		**Bachelor of Land Administration (New/revised Courses)**	
Course Code	**Course Title**	**Course code**	**Bachelor of Land Administration (Equivalent New/Revised Courses)**
PFI721S	Property Finance and Investment	ITV521S	Introduction to Valuation
DRL520S	Deeds Registration Law 1	LLR611S	Law for Land Registration
LLA520S	Law for Land Administration 1		
LTS520S	Land Tenure Systems	LTS520S	Land Tenure Systems
UEN621S	Urban Economics	LEM621S	Land Economics
DRL620S	Deeds Registration Law 2	MLR620S	Mortgages and Other Land Rights
LTM621S	Land Tenure Management	LIF511S	Legal and Institutional Framework
CMT620S	Conflict Management	CMT620S	Conflict Management
MNL711S	Management and Leadership	MAL710S	Management and Leadership
ISL720S	Information Systems Law	ISL720S	Information Systems Law
LAD710S	Land Administration	LAT710S	Land Administration Theory and Practice
GMN621S	Geo-information Management	GSI720S	Governance and Spatial Information Management
WLA721S	Work Integrated Learning: Land Administration	WLA721S	Work Integrated Learning: Land Administration

Table 15.2 Corresponding Courses (if Failed). This is not a credit table

Bachelor of Land Administration (07BLAD) (Old Courses)		**Bachelor of Land Administration (New/revised Corresponding Courses)**	
Course Code	**Course Title**	**Course code**	**Bachelor of Land Administration (Equivalent New/Revised Courses)**
PFI721S	Property Finance and Investment	PFI721S	Property Finance and Investment
LTS520S	Land Tenure Systems	LTS520S	Land Tenure Systems
CMT620S	Conflict Management	CMT620S	Conflict Management
LLA520S	Law for Land Administration 1	LLR611S	Law for Land Registration
DRL520S	Deeds Registration Law 1		
UEN621S	Urban Economics	UEN621S	Urban Economics
DRL620S	Deeds Registration Law 2	MLR620S	Mortgages and Other Land Rights
LTM621S	Land Tenure Management	LIF511S	Legal and Institutional Framework
LAD710S	Land Administration	LAT710S	Land Administration Theory and Practice
ISL720S	Information Systems Law	ISL720S	Information Systems Law
MNL711S	Management and Leadership	MAL710S	Management and Leadership
GMN621S	Geo-information Management	GSI720S	Governance and Spatial Information Management
WLA721S	Work Integrated Learning: Land Administration	WLA721S	Work Integrated Learning: Land Administration

Please Note:

The following old courses do not have corresponding courses in the Bachelor of Land Administration programme (new curriculum) and will be offered for such further period depending on the need of the students and at the discretion of the Department of Land and Property Sciences.

- Law for Land Administration 2 (LLA610S);
- Sectional Titles Legislation (STL620S);
- Deeds Registration Law 3 (DRL720S).

Table 15.2 above highlights core courses in the Bachelor of Land Administration programme that should be done if courses are failed. Service courses and elective courses delivered by other Faculties and Departments are excluded, but the rules of relevant Faculties and Departments apply to this programme as well. All old courses have corresponding courses in the Bachelor of Land Administration (revised curriculum) and are included in Table 15.2 above.

DEPARTMENT OF GEO-SPATIAL SCIENCES & TECHNOLOGY **Code 92**

QUALIFICATIONS OFFERED
(Offered FULL-TIME only)

Diploma in Geomatics (Revised Programme) (Phased in 2020) 06DGEO
Diploma in Geomatics (Old Curriculum – Phasing out until 2022).....06DGEM
Bachelor of Geomatics (Revised Programme) (Phased in 2020) 07BGEO
Bachelor of Geomatics (Old Curriculum – Phasing out until 2022) 07BGEM
Bachelor of Geoinformation Technology (Revised Programme) (Phased in 2020) 07BGEI
Bachelor of Geoinformation Technology (Old Curriculum- Phasing out until 2022) 07GITB

GEOMATICS PROGRAMMES

Main Features and Structure of the Geomatics Programmes
Most students will register for the Diploma in Geomatics in Year 1, and may be allowed to transfer to the Bachelor of Geomatics in Year 2, if they passed the necessary bridging courses and/or meet the admission requirements for the Bachelor programme. These students will take a minimum period of four years to complete the Bachelor of Geomatics.

Exceptional candidates may apply for exemption from the bridging courses, which will allow them to complete the Bachelor of Geomatics in a minimum period of three years.

The progression rules for transfer from the Diploma to the Bachelor of Geomatics are as follows:

- If the first year courses Computer User Skills, Introduction to Mathematics B, Introduction to Physics B, and English in Practice are passed, students can register for the Bachelor of Geomatics programme in Year 2.
- Students who pass all the above courses except Introduction to Physics B and Introduction to Mathematics B, will be allowed to continue with the Diploma, but not the Bachelor programme.

Students, who do not meet the full admission requirements for the Bachelor programme, should be able to complete the Diploma in Geomatics programme in a minimum period of two and a half years.

DIPLOMA IN GEOMATICS **06DGEO**
(Revised Programme - Phased in 2020)

Description
The Diploma in Geomatics programme was purposefully designed to prepare students for a career as survey technician, with specialised knowledge and skills in the acquisition, processing, presentation, and management of geospatial data. The programme provides a systematic and coherent introduction to the main theories, broad principles, concepts, data, and problem-solving techniques in the main cognate area, i.e. geomatics. The programme will enable students to acquire cognitive skills, practical problem-solving skills, and key transferable skills that are necessary for addressing challenges in the field of geomatics. In addition, the Diploma in Geomatics will enable students to develop a sense of social responsibility, and an understanding of the role they can play in land reform and sustainable development in Namibia and the Southern African Region. Graduates from this programme should have full regard for achieving excellence and maintaining the highest standards of ethical conduct in the practice of their profession.

Admission Requirements
Candidates may be admitted to the Diploma of Geomatics programme if they meet the NUST General Admission Requirements, and comply with the following additional requirements:

- A Grade 12 Certificate (or equivalent) with a combined total of at least 25 points on the Engineering Evaluation Scale, counting up to five subjects that must include Mathematics and English, in NSSC Higher or Ordinary, or a combination of the two examinations;
- Minimum C-symbol on NSSC Ordinary (or 4-symbol at NSSC Higher) for Mathematics;
- Minimum D-symbol on NSSC Ordinary for Physical Science;

Or, as of the beginning of 2021,
- A Grade 11 Certificate (NSSCO or equivalent) with a combined total of at least 25 points on the Engineering Evaluation Scale, counting up to five subjects that must include Mathematics and English;
- Minimum C-symbol on NSSCO for Mathematics;
- Minimum D-symbol on NSSCO for Physics;

Or, as of the beginning of 2022,

- A combination of a Grade 11 Certificate (NSSCO) and a Grade 12 Certificate (NSSCAS) with a combined total of at least 25 points on the Engineering Evaluation Scale, counting up to five subjects that must include Mathematics and English;
- Minimum C-symbol on NSSCO for Mathematics (or E-symbol on NSSCAS);
- Minimum D-symbol on NSSCO for Physics;

Mature Age Students may be admitted in terms of the Mature Age Entry Scheme. Selection for mature age entry will be by means of appropriate written entrance tests, three years work experience, satisfactory references, as well as gaining entry into the English course Language in Practice.

Note: The above are minimum admission requirements. Admission is subject to availability of space in the programme, and only the best applicants will be admitted. A pass in the Grade 12 subjects Physical Sciences and/or Geography, or related subject, and a minimum B-symbol in Mathematics are highly recommended, and preference may be given to candidates with these results, additional to the above admission requirements.

Articulation Arrangements

Transfer of credits will be dealt with according to the University's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credit for a qualification.

Diploma in Geomatics students may be admitted to the Bachelor of Geomatics programme, if they pass the Introduction to Science, Technology, Engineering and Mathematics (InSTEM) courses Introduction to Mathematics B and Introduction to Physics B.

Students who fail either of the courses Introduction to Mathematics B or Introduction to Physics B, will be allowed to continue with the Diploma in Geomatics, but will not be admitted into the Bachelor of Geomatics programme. Students will not be allowed to repeat the courses Introduction to Mathematics B or Introduction to Physics B.

In exceptional cases, upon application by the student and recommendation by the course lecturer, Head of Department and Dean, the Registrar may allow a student to repeat the courses Introduction to Mathematics B or Introduction to Physics B and/or admit a student into the Bachelor of Geomatics programme.

Mode of Delivery

The programme will be offered on full-time mode of study in accordance with the University's rules and regulations.

CURRICULUM

Year 1:				
Semester 1				
Course Code	**Course Title**	**Prerequisites**	**NQF Level**	**NQF Credits**
PLU411S	Principles of English Language Use	None	4	10
BSV521S	Basic Surveying	None	5	12
SUP522S	Survey Project 1	Basic Surveying (co-requisite)	5	8
ILP510S	Introduction to Land Use Planning and Management	None	5	12
ITM401S	Introduction to Mathematics A	None	4	14
CUS411S	Computer User Skills	None	4	10
Semester 2				
BSC410S	Basic Science	None	4	8
SDR420S	Survey Drafting	Basic Surveying	4	6
SUR610S	Surveying 2	Basic Surveying, Survey Project 1	6	12
LTS520S	Land Tenure Systems	None	5	12
GES512S	Geographic Information Systems 1	Basic Surveying, Computer User Skills	5	12
Year 2:				
Semester 3				
CAD510S	Computer Aided Drafting	Basic Surveying, Computer User Skills	5	12
RES511S	Remote Sensing 1	GIS1, Introduction to Mathematics A	5	12
CAS520S	Cadastral Surveying 1	Basic Surveying	5	12
MSV610S	Mine Surveying	Basic Surveying, Survey Project 1	6	12
ENS610S	Engineering Surveying	Basic Surveying, Survey Project 1	6	12
EPR511S	English in Practice	Principles of English Language Use	5	NCB

Semester 4

DTM620S	Digital Terrain Modelling	Engineering Surveying, Surveying 2	6	12
STS621S	Sectional Title Surveying	Survey Drafting, Computer Aided Drafting, Surveying 2	6	12
SUR620S	Surveying 3	Engineering Surveying, Surveying 2	6	12
GAT621S	Geomatics Adjustment Theory	Surveying 2	6	12
EAP511S	English for Academic Purposes	English in Practice	5	14

Year 3:
Semester 5

ICT512S	Information Competence	None	5	10
CAS610S	Cadastral Surveying 2	Cadastral Surveying 1	6	12
PGY611S	Photogrammetry	GIS1, Remote Sensing 1	6	12
CMV611S	Cartography and Map Visualisation	GIS1	6	12
SUP611S	Survey Project 2	Surveying 3, Digital Terrain Modelling	6	12

Transition Arrangements

The revised Diploma in Geomatics programme will be implemented as from January 2020. The last intake of 1st year students on the old curriculum was therefore January 2019.

Students on the old Diploma in Geomatics programme will be allowed to transfer to the new programme, or to complete the old programme, subject to the transition arrangements below.

- The new Diploma in Geomatics (new curriculum) will take effect from January 2020 and will be completely phased in by 2022. Courses will only be offered based on the new/revised syllabi in 2020 (1st year), 2021 (2nd year) and 2022 (3rd year).
- Students who fail any of the courses on the out-phasing programme (old curriculum), will be required to repeat such failed courses based on the revised syllabi or corresponding courses in accordance with the Credit Table below.
- Students who are registered in 2019 for the 1st year of the old programme, and who fail more than 50% of the courses at the end of 2019 and/or 2020, will be required to change their registration to the revised Diploma in Geomatics programme (new curriculum) and will be granted credits for the relevant courses passed.
- The courses Introduction to Geospatial Data, Database Fundamentals, and Land Information Systems, do not have corresponding courses in the revised Diploma in Geomatics programme, and no credits will therefore be granted for it for students who transfer to the revised programme. These courses are service courses, and will still be available under the old programme, until it is phased out at the end of 2022.

Credit Table – Reflecting which Old Courses grant credit for which new courses

Current Diploma in Geomatics (Old Course)		**Revised Diploma in Geomatics (New/Revised Course)**	
Course Code	**Course Name**	**Course Code**	**Course Name**
DCV512S	Digital Cartography & Visualisation	CMV611S	Cartography & Map Visualisation
SUP520S	Survey Project	SUP522S	Survey Project 1

DIPLOMA IN GEOMATICS **06DGEM**
(Old Curriculum - Phasing out from 2020 until 2022)

NQF LEVEL: 6 **NQF Credits: 278** **NQF Qualification ID: Q0161**

Description
The Diploma in Geomatics programme is aimed at the training of survey technicians.

The programme provides a systematic and coherent introduction to the main theories, broad principles, concepts, data, and problem-solving techniques in the field of Geomatics. The programme will enable students to acquire cognitive skills, practical problem-solving skills, and key transferable skills required for addressing challenges in the field of Geomatics. In addition, the Diploma in Geomatics will enable students to develop a sense of social responsibility, and an understanding of the role they can play in land reform and sustainable development in Namibia and the Southern African Region.

Graduates from this programme should have full regard for achieving excellence and maintaining the highest standards of ethical conduct in the practice of their profession. Upon completion of the programme, graduates of this programme will be able to contribute significantly to the attainment of national development objectives by taking up jobs as survey technicians in the public and private sectors.

Admission Requirements
Candidates may be admitted to the Diploma in Geomatics programme if they meet the general University admission requirements, and comply with the following additional requirements:

- A Grade 12 Certificate (or equivalent) with a combined total of at least 25 points on the Engineering Evaluation Scale, counting up to five subjects that must include Mathematics and English, in NSSC Higher or Ordinary, or a combination of the two examinations;
- Minimum C-symbol on NSSC Ordinary (or 4-symbol at NSSC Higher) for Mathematics;
- A pass in the Grade 12 subjects Physical Science and/or Geography, or related subjects, is highly recommended, and preference may be given to candidates with these results, additional to the above admission requirements;
- Must be medically and physically fit for fieldwork, which forms an integral part of the programme.

Mature Age Students may be admitted in terms of the Mature Age Entry Scheme. Selection for mature age entry will be by means of appropriate written entrance tests, three years' work experience, satisfactory references.

Note: The above are minimum admission requirements. Admission is subject to availability of space in the programme, and only the best applicants will be admitted. A pass in the Grade 12 subjects Physical Science and/or Geography, or related subject, and a minimum C-symbol in Mathematics, are highly recommended, and preference may be given to candidates with these results, additional to the above admission requirements.

Articulation Arrangements
Transfer of credits will be dealt with according to the University's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credit for a qualification.

Students within the Diploma in Geomatics may be admitted to the Bachelor of Geomatics programme, if they pass the InSTEM courses ***Introduction to Mathematics B*** and ***Introduction to Physics B***.

Students who fail either of the courses Introduction to Mathematics B or Introduction to Physics B, will be allowed to continue with the Diploma in Geomatics, but will not be admitted into the Bachelor of Geomatics programme. Students will not be allowed to repeat the courses Introduction to Mathematics B or Introduction to Physics B.

In exceptional cases, upon application by the student and recommendation by the course lecturer, HoD and Dean, the Registrar may allow a student to repeat the courses Introduction to Mathematics B or Introduction to Physics B and/or admit a student into the Bachelor of Geomatics programme.

Mode of Delivery
The programme will be offered on full-time mode of study in accordance with the University's rules and regulations.

CURRICULUM

Year 1:
Semester 1

Course Code	Title Course	Prerequisites	NQF Level	NQF Credits
PLU411S	Principles of English Language Use	None	4	NCB
BSC410S	Basic Science	None	4	8
CUS411S	Computer User Skills	None	4	10
IGD411S	Introduction to Geospatial Data	None	4	8
ITM401S	Introduction to Mathematics A	None	4	14
ILP510S	Introduction to Land Use Planning and Management	None	4	12
Semester 2				
SDR420S	Survey Drafting	Computer User Skills, Introduction to Mathematics A	4	6
BSV521S	Basic Surveying	Introduction to Mathematics A	5	12
CAS520S	Cadastral Surveying 1	Introduction to Mathematics A	5	12
ICT512S	Information Competence	None	5	10
LTS520S	Land Tenure Systems	None	5	12
SUP520S	Survey Project	Introduction to Mathematics A	5	6
Year 2:				
Semester 3				
EPR511S	English in Practice	Principles of English Language Use/ Language in Practice	5	NCB
CAD510S	Computer Aided Drafting	Introduction to Geospatial Data, Computer User Skills	5	12
ENS610S	Engineering Surveying	Basic Surveying	6	12
GES512S	Geographic Information Systems 1	Introduction to Geospatial Data, Computer User Skills	5	12
MSV610S	Mine Surveying	Basic Surveying	6	12
SUR610S	Surveying 2	Basic Surveying	6	12
Semester 4				
EAP511S	English for Academic Purposes	English in Practice	5	14
DTM620S	Digital Terrain Modeling	Engineering Surveying, Surveying 2	6	12
STS621S	Sectional Title Surveying and Surveying 2	Survey Drafting, Computer Aided Drafting;	6	1 2
SUR620S	Surveying 3	Engineering Surveying; Surveying 2	6	12
Year 3:				
Semester 5				
RES511S	Remote Sensing 1	Introduction to Geospatial Data; AND Introduction to Mathematics A OR Mathematics and Statistics for Spatial Science	5	12
DBF510S	Database Fundamentals	None	5	10
LIS611S	Land Information Systems	Geographic Information Systems 1	6	12
DCV512S	Digital Cartography and Visualisation	Geographic Information Systems 1	5	12
CAS610S	Cadastral Surveying 2	Basic Surveying, Cadastral Surveying 1	6	12

BACHELOR OF GEOMATICS **07BGEO**
(Revised programme - Phased in 2020)

Description
The Bachelor of Geomatics programme was purposefully designed to prepare students for a career as geomatics practitioner or technical surveyor, with high level knowledge and skills in the acquisition, processing, presentation, and management of geospatial data. The aim of the programme is to train geomatics practitioners who are better qualified than survey technicians, but not necessarily with an NQF Level 8 Professional Bachelor or Honours degree. These practitioners will typically work in mining, construction, or geoinformatics environments, but will also be eligible for registration with the Namibian Council for Professional Land Surveyors, Technical Surveyors and Survey Technicians (SURCON) as technical surveyors.

The programme provides a systematic and coherent introduction to the main theories, broad principles, concepts, data, and problem-solving techniques in the field of geomatics. The programme will enable students to acquire cognitive skills, practical problem-solving skills, and key transferable skills required for addressing pressing geomatics challenges. In addition, the Bachelor of Geomatics will enable students to develop a sense of social responsibility, and an understanding of the role they can play in land reform and sustainable development in Namibia and the Southern African Region.

Graduates from this programme should have full regard for achieving excellence and maintaining the highest standards of ethical conduct in the practice of their profession. Upon completion of this programme, graduates will be able to contribute to the attainment of national development objectives by taking up jobs as a technical surveyor in the public and private sectors of Namibia.

Admission Criteria
Candidates may be admitted to the Bachelor of Geomatics programme if they meet the NUST General Admission Requirements, and comply with the following additional requirements:

Applicants must have a Grade 12 Certificate with a combined total of at least 30 points on the Evaluation Scale, counting up to five subjects as follows:

- Minimum A-symbol on NSSC Ordinary (or 4-grade at NSSC Higher) for Mathematics;
- Minimum B-symbol on NSSC Ordinary (or 4-grade at NSSC Higher) for Physical Science;
- Minimum C-symbol on NSSC Ordinary (or 4-grade at NSSC Higher) for English First Language OR minimum B-symbol on NSSC Ordinary (or 4-grade for NSSC Higher) for English Second Language;

OR, as of the beginning of 2021,
- Minimum A-symbol on NSSCO for Mathematics (or d-symbol on NSSCAS);
- Minimum B-symbol on NSSCO for Physics (or e-symbol on NSSCAS);
- Minimum C-symbol on NSSCO for English First Language (or e-symbol on NSSCAS); OR minimum B-symbol on NSSCO for English Second Language (or e-symbol on NSSCAS).

A pass in Geography is highly recommended, and preference may be given to these candidates, additional to the above admission requirements.

Candidates who do not have proof of competency for Computer User Skills, but who meet all other admission requirements, may be admitted conditionally to the Bachelor of Geomatics programme. They will be allowed to do all the first semester course of Year 1 of the Bachelor programme, on condition that they also pass the course Computer User Skills in the same semester.

OR

Candidates who passed the Introduction to Science, Technology, Engineering and Mathematics (InSTEM) courses Computer User Skills, Introduction to Mathematics B, Introduction to Physics B, and English in Practice, may be admitted into the first year of the Bachelor of Geomatics programme. Preference will be given to candidates who passed all InSTEM courses.

OR

Students enrolled for the Diploma in Geomatics may transfer to the Bachelor of Geomatics programme, if they passed the InSTEM courses Introduction to Mathematics B and Introduction to Physics B. Students who fail either Introduction to Mathematics B or Introduction to Physics B, will be allowed to continue with the Diploma in Geomatics, but will not be admitted into the Bachelor of Geomatics programme. Students will not be allowed to repeat the courses Introduction to Mathematics B or Introduction to Physics B. In exceptional cases, upon application by the student and recommendation by the course lecturer, Head of Department, and Dean, the Registrar may allow a student to repeat the courses Introduction to Mathematics B or Introduction to Physics and/or admit a student into the Bachelor of Geomatics programme.

OR

Holders of the National Diploma in Surveying from the Polytechnic of Namibia, with a mark of at least 70% for the courses Mathematics & Statistics for Land Management, Basic Surveying and Adjustment of Observations, may be admitted into the Bachelor of Geomatics programme with advanced standing, and will be granted credits on a course-by-course basis at the discretion of the Department.

OR

Holders of the National Diploma in Surveying or Diploma in Geomatics from the Polytechnic of Namibia or NUST at NQF Level 6, an equivalent qualification at NQF Level 6 from a recognised institution, or a pre-NQF approved 3-year Diploma in the field of surveying/ geomatics, may be admitted into the Bachelor of Geomatics programme with advanced standing, subject to the above admission requirements. Such applicants will be granted credits on a course-by-course basis at the discretion of the Department.

Applicants from other institutions must submit detailed information on all courses in their previous qualifications, as well as contact details of three referees.

Applicants may be required to attend a pre-selection interview and/or test at the discretion of the Department.

Articulation Arrangements
Transfer of credits will be dealt with according to the University's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification.

The Bachelor of Geomatics will provide access to further studies in Geomatics or a related cognate area, at NQF Level 8.

Mode of Delivery
The programme will be offered on full-time mode of study in accordance with the University's rules and regulations.

CURRICULUM

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
Year 1:				
Semester 1				
BSV521S	Basic Surveying	None	5	12
SUP522S	Survey Project 1	Basic Surveying (co-requisite)	5	8
ILP510S	Introduction to Land Use Planning and Management	None	5	12
EAP511S	English for Academic Purposes	English in Practice	5	14
ENM510S	Engineering Mathematics 1	None	5	12
Semester 2				
SDR420S	Survey Drafting	Basic Surveying	4	6
SUR610S	Surveying 2	Basic Surveying, Survey Project 1	6	12
LTS520S	Land Tenure Systems	None	5	12
GES512S	Geographic Information Systems 1	Basic Surveying, Computer User Skills	5	12
ICT512S	Information Competence	None	5	10
ENM520S	Engineering Mathematics 2	Engineering Mathematics 1	6	12
Year 2:				
Semester 3				
CAD510S	Computer Aided Drafting	Basic Surveying, Computer User Skills	5	12
RES511S	Remote Sensing 1	GIS1, Introduction to Mathematics A	5	12
MSV610S	Mine Surveying	Basic Surveying, Survey Project 1	6	12
CAS520S	Cadastral Surveying 1	Basic Surveying	5	12
ENS610S	Engineering Surveying	Basic Surveying, Survey Project 1	6	12
Semester 4				
DTM620S	Digital Terrain Modelling	Engineering Surveying, Surveying 2	6	12
STS621S	Sectional Title Surveying	Survey Drafting, Computer Aided Drafting, Surveying 2	6	12
SUR620S	Surveying 3	Engineering Surveying, Surveying 2	6	12
GAT621S	Geomatics Adjustment Theory	Surveying 2	6	12
GES612S	Geographic Information Systems 2	GIS1	6	12
IPH402S	Introduction to Physics B	None	4	12
Year 3:				
Semester 5				
CAS610S	Cadastral Surveying 2	Cadastral Surveying 1	6	12
PGY611S	Photogrammetry	GIS1, Remote Sensing 1	6	12
CMV611S	Cartography and Map Visualisation	GIS1	6	12
SUR710S	Surveying 4	Surveying 3, Geomatics Adjustment Theory	7	12
GES711S	Geographic Information Systems 3	GIS2	7	12
MNL711S	Management and Leadership	None	7	12
Semester 6				
SYD611S	Sustainability and Development	None	6	12
PGI520S	Programming for Geoinformatics	Computer User Skills, Introduction to Mathematics A	5	12
ODC721S	Geodesy	Surveying 4	7	12
WIG721S	Work Integrated Learning (Geomatics)	Digital Terrain Modelling, Surveying 4, Cadastral Surveying 2	7	28

Transition Arrangements

The revised Bachelor of Geomatics programme will be implemented as from January 2020. The last intake of 1st year students on the old curriculum was therefore January 2019. Existing Bachelor of Geomatics students will be allowed to transfer to the new programme, or to complete the old programme, subject to the following transition arrangements:

- The revised Bachelor of Geomatics (new curriculum) will take effect as from January 2020 and will be completely phased in by 2022. Courses will only be offered based on the new/revised syllabi in 2020 (1st year), 2021 (2nd year) and 2022 (3rd year).
- Students who fail any of the courses on the out-phasing programme (old curriculum), will be required to repeat such failed courses based on the revised syllabi or corresponding courses in accordance with the Credit Table below.
- Students who are registered in 2019 for the 1st year of the old programme, and who fail more than 50% of the courses at the end of 2019, will be required to change their registration to the revised Bachelor of Geomatics programme (new curriculum) and will be granted credits for the relevant courses passed.
- The courses *Introduction to Geospatial Data, Database Fundamentals, and Land Information Systems*, do not have corresponding courses in the revised Bachelor of Geomatics programme, and no credits will therefore be granted for it for students who transfer to the revised programme. These courses are service courses, and will still be available under the old programme, until it is phased out at the end of 2022.
- The course *Geomatics Theory of Errors* (NQF Level 7 course) has been replaced by *Geomatics Adjustment Theory (NQF Level 6)* in the revised programme, as from 2021. Students on the old curriculum who need to repeat *Geomatics Theory of Errors (NQF Level 7)* after 2020, will be allowed to do so, and will be accommodated in the *Geomatics Adjustment Theory (NQF Level 6)* classes, with additional teaching and assessments at NQF Level 7.
- The course *Digital Photogrammetry* (NQF Level 7) has been replaced with Photogrammetry (NQF Level 6) in the revised programme, as from 2022. Students on the old curriculum who need to repeat *Digital Photogrammetry* (NQF Level 7) after 2021, will be allowed to do so, and will be accommodated in the *Photogrammetry* (NQF Level 6) classes, with additional teaching and assessments at NQF Level 7.

Credit Table – Reflecting which old courses grant credit for which new courses

Old Bachelor of Geomatics (Old Course)		**Revised Bachelor of Geomatics (New/Revised Course)**	
Course Code	**Course Name**	**Course Code**	**Course Name**
DCV512S	Digital Cartography & Visualisation	CMV611S	Cartography and Map Visualisation
CIS610S	Contemporary Issues	SYD611S	Sustainability and Development
SUP520S	Survey Project	SUP522S	Survey Project 1
DPG710S	Digital Photogrammetry	PGY611S	Photogrammetry
PPE621S	Professional Practice	MNL711S	Management and Leadership

BACHELOR OF GEOMATICS **07BGEM**
(Old Curriculum - Phasing out from 2020 until 2022)

NQF Level: 7 **NQF Credits: 426** **NQF Qualification ID: Q0162**

Description
The Bachelor of Geomatics programme is purposefully designed to prepare students for a career as technical surveyor, with high level knowledge and skills in the acquisition, processing, presentation, and management of geospatial data. The programme provides a systematic and coherent introduction to the main theories, broad principles, concepts, data, and problem-solving techniques in the field of Geomatics. The programme will enable students to acquire cognitive skills, practical problem-solving skills, and key transferable skills required for addressing pressing geomatics challenges. In addition, the Bachelor of Geomatics will enable students to develop a sense of social responsibility, and an understanding of the role they can play in land reform and sustainable development in Namibia and the Southern African Region.

Graduates from this programme should have full regard for achieving excellence and maintaining the highest standards of ethical conduct in the practice of their profession. Upon completion of this programme, graduates will be able to contribute significantly to the attainment of national development objectives by taking up jobs as a technical surveyor in the public and private sectors of Namibia.

Admission Criteria
Candidates may be admitted to the Bachelor of Geomatics programme if they meet the University's general admission requirements, and comply with the following additional requirements: Applicants must have a combined total of at least 30 points on the Evaluation Scale, counting up to five subjects as follows:

- Minimum A-symbol on NSSC Ordinary (or 3-symbol at NSSC Higher) for Mathematics;
- Minimum B-symbol on NSSC Ordinary (or 4-symbol at NSSC Higher) for Physical Science;
- Minimum 3-symbol for English Second Language at NSSC Higher;
- A pass or proof of competency in Computer User Skills (or equivalent); and
- Must be medically and physically fit for fieldwork, which forms an integral part of the programme.

Candidates who do not have proof of competency for Computer User Skills, but who meet all other admission requirements, may be admitted conditionally to the Bachelor of Geomatics programme. They will be allowed to do all the first semester course of Year 1 of the Bachelor programme, on condition that they also pass the course Computer User Skills in the same semester. They will then have to do the institutional core course Information Competency in the second semester.

Candidates, who passed the Introduction to Science, Technology, Engineering and Mathematics (InSTEM) courses Computer User Skills, Introduction to Mathematics B, Introduction to Physics B, and English in Practice, may be admitted into the first year of the Bachelor of Geomatics programme. Preference will be given to candidates who passed all InSTEM courses. Holders of the National Diploma in Surveying from the Polytechnic of Namibia/Namibia University of Science and Technology with a mark of at least 70% in Mathematics and Statistics for Land Management, Basic Surveying and Adjustment of Observations, may be admitted into the Bachelor of Geomatics programme with advanced standing, on a course by course credit at the discretion of the Department.

Holders of the National Diploma in Surveying from the Polytechnic of Namibia/Namibia University of Science and Technology the Diploma in Geomatics from the Polytechnic of Namibia/Namibia University of Science and Technology at NQF Level 6, an equivalent qualification at NQF Level 6 from a recognised institution or a pre-NQF approved Diploma over 3 years in the field of surveying/ geomatics may be admitted into the Bachelor of Geomatics programme with advanced standing, with credits granted on a course-by-course basis at the discretion of the Department.

Applicants from other institutions must submit detailed information on all courses in their previous qualifications, as well as contact details of three referees.

Applicants may be required to attend a pre-selection interview and/or test at the discretion of the Department.

Articulation Arrangements
Transfer of credits will be dealt with according to the University's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification.

The Bachelor of Geomatics will provide access to further studies in Geomatics or a related cognate area, at NQF Level 8.

Mode of Delivery
The programme will be offered on full-time mode of study in accordance with the University's rules and regulations.

CURRICULUM

Year 1:
Semester 1

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
DBF510S	Database Fundamentals	None	5	10
EAP511S	English for Academic Purposes	English in Practice	5	14
ICT512S	Information Competence	None	5	10
IGD411S	Introduction to Geospatial Data	None	4	8
ILP510S	Introduction to Land Use Planning and Management	None	5	12
MAT111S	Mathematics 1	None	5	12

Semester 2

BSV521S	Basic Surveying	Introduction to Mathematics A	5	12
CAS520 S	Cadastral Surveying 1	Introduction to Mathematics A	5	12
GES512S	Geographic Information Systems 1	Introduction to Geospatial Data, Computer User Skills	5	12
IPH402S	Introduction to Physics B	None	4	12
LTS520S	Land Tenure Systems	None	5	12
SDR420S	Survey Drafting	Computer User Skills, Introduction to Mathematics A	4	6
SUP520S	Survey Project	Introduction to Mathematics A	5	6

Year 2:
Semester 3

CAD510S	Computer Aided Drafting	Introduction to Geospatial Data, Computer User Skills	5	12
ENS610S	Engineering Surveying	Basic Surveying	6	12
LIS611S	Land Information Systems	Geographic Information Systems 1	6	12
PGI520S	Programming for Geoinformatics	Computer User Skills, Introduction to Mathematics A	5	12
RES511S	Remote Sensing 1	Introduction to Geospatial Data, Introduction to Mathematics A	5	12
SUR610S	Surveying 2	Basic Surveying	6	12

Semester 4

DTM620S	Digital Terrain Modeling	Engineering Surveying, Surveying 2	6	12
GES612S	Geographic Information Systems 2	Geographic Information Systems 1	6	12
GTE710S	Geomatics Theory of Errors	Mathematics 1, Surveying 2, Programming for Geoinformatics	7	12
MAT120S	Mathematics 2	Mathematics 1	6	12
STS621S	Sectional Title Surveying	Survey Drafting, Computer Aided Drafting and Surveying 2	6	12
SUR620S	Surveying 3	Engineering Surveying, Surveying 2	6	12

Year 3:
Semester 5

CAS610S	Cadastral Surveying 2	Basic Surveying, Cadastral Surveying 1	6	12
DCV512S	Digital Cartography & Visualisation	Introduction to Geospatial Data	5	12
DPG710S	Digital Photogrammetry	Digital Terrain Modeling, Geomatics Theory of Errors	7	12
GES711S	Geographic Information Systems 3	Geographic Information Systems 2	7	12
MSV610S	Mine Surveying	Basic Surveying	6	12
SUR710S	Surveying 4	Surveying 3, Geomatics Theory of Errors	7	12

Semester 6

CIS610S	Contemporary Issues	None	6	12
PPE621S	Professional Practice	None	6	8
WGE711S	Work Integrated Learning (Geomatics)	Digital Terrain Modeling, Surveying 4, Cadastral Surveying 2	7	36

BACHELOR OF GEOINFORMATION TECHNOLOGY **07BGEI**
(Revised programme -Phased in 2020)

Programme Aims/Purpose
The revised Bachelor of Geoinformation Technology aims to provide a skillful and competent labour force for the growing Geographic Information Systems (GIS) and Remote Sensing (RS) industry in Namibia. The programme provides a systematic and coherent introduction to the main theories, broad principles, concepts, data, and problem-solving techniques in the main cognate area, i.e. Geoinformation Technology. The programme is designed to provide graduates with a blend of cognitive and intellectual skills, as well as practical and theoretical skills necessary to successfully design, implement and apply geoinformation technologies that can be used as decision-supporting tools in solving spatial problems.

Criteria for Admission
Applicants may be admitted to the Bachelor of Geoinformation Technology programme if they meet the following requirements. Applicants must have a combined total of at least 30 points on the Evaluation Scale, counting up to five subjects as follows:

Minimum C-symbol on NSSC Ordinary (or 4-symbol at NSSC Higher) for Mathematics;
Minimum C-symbol on NSSC Ordinary (or 4-symbol at NSSC Higher) for Physical Science;
Minimum C-symbol on NSSC Ordinary (or 4-symbol at NSSC Higher) for Geography

Preference will be given to candidates with a Minimum C-symbol on NSSC Ordinary (or 4-symbol at NSSC Higher) for English First Language or Minimum 3-symbol on NSSC Higher for English Second Language; If a candidate does not have a minimum of B-symbol (or equivalent at NSSC Higher) required for English, such candidate must acquire the competencies within the first year of studies by enrolling for the appropriate English communication courses at lower levels.

OR

Minimum C-symbol on NSSCO for Mathematics (or e-symbol on NSSCAS);
Minimum C-symbol on NSSCO for Physics and/or Chemistry (or e-symbol on NSSCAS);
Minimum C-symbol on NSSCO for Geography (or E-symbol on NSSCAS);

Preference will be given to candidates with a Minimum C-symbol on NSSCO for English First Language (or e-symbol on NSSCAS); or Minimum D-symbol for English Second Language on NSSCAS; If a candidate does not have a minimum of B-symbol (or equivalent at NSSC Higher) required for English, such candidate must acquire the competencies within the first year of studies by enrolling for the appropriate English communication course at lower levels.

Candidates who passed the Introduction to Science, Technology, Engineering and Mathematics (InSTEM) courses Computer User Skills, Introduction to Mathematics A, Introduction to Physics A, and English in Practice may be admitted into the first year of the Bachelor of Geoinformation Technology programme. Preference will be given to candidates who passed all InSTEM courses.

Holders of the Diploma in Geoinformation Technology from Polytechnic of Namibia at NQF Level 6, an equivalent qualification at NQF Level 6 from a recognised institution or a pre-NQF approved Diploma over 3 years in the field of geoinformation technology may be admitted into the Bachelor of Geoinformation Technology programme with advanced standing on a course by course credit basis at the discretion of the Department

Articulation Arrangements
Transfer of credits will be dealt with according to the University's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credits that can be granted is 50% of the credit for a qualification.

The Bachelor of Geoinformation Technology will provide access to further studies in Geoinformation Technology or a related cognate area, at NQF Level 8.

Mode of Delivery
The programme will be offered on full-time mode only, in accordance with Namibia University of Science and Technology rules and regulations.

Requirements for Qualification Award
The Bachelor of Geoinformation Technology degree will be awarded to students credited with a minimum of 368 NQF credits, and who have met the detailed qualification requirements for the programme as set out below. In addition, students should meet the administrative and financial requirements as spelt out in Part 1 of the Namibia University of Science and Technology Yearbook.

Teaching and learning strategies
The requirements of the NQF underline the acquisition of cognitive skills and competencies exceeding the knowledge and

understanding of subject-specific knowledge items and professional/technical competencies. Thus, the qualification focuses on the engagement of students in an interactive learning process, with focus on face-to-face, supervised and directed learning modes in order to provide for the development of generic cognitive and intellectual skills, key transferable skills, and, as the case may be, subject-specific and/or professional/technical and practical skills.

The learning process will be facilitated both in and outside the classroom, requiring specific tasks to be carried out by the student, including the following:

- Formal weekly face-to-face (interactive) sessions and presentation using PowerPoint slides, smart boards, whiteboards and handouts;
- Formal weekly laboratory exercises and practice;
- Student portfolios;
- Tutorial and supervised self-study sessions;
- Self-learning through online links;
- Team learning through group projects;
- Individual assignments;
- Use of e-learning platform (including emails and blog/forum);
- Discussion and student presentations (assignment results and other activities);
- Case studies;
- Guest lecturers with open discussion, when appropriate;
- Seminars.

Work Integrated Learning
This programme also includes Work Integrated Learning (WIL) which integrates work experiences with learning in a way traditional education cannot do. It provides students with opportunities to:

- Execute tasks related to Geoinformation Technology at the workplace;
- Network with professionals and build relationships that can help students in their future endeavours;
- Have access to companies for full-time positions after graduation once good rapport has been established between the students and the companies;
- Interact with people from diverse backgrounds and develop interpersonal skills that are not possible in a classroom environment.

During WIL, students will be linked to ongoing practically-orientated and interdisciplinary projects executed in industry and Government (off/on campus) to effectively develop the student's core capabilities in the field of GIT and to enhance the utilisation of 'state of the art" GIT work procedures in alignment with available proprietary and possible open-source software solutions. The two courses that are done in the same semester as WIL, will be taught interactively and will be done through an accelerated teaching approach.

Assessment Strategies
Continuous Assessment with Feedback (CAF) and written Final Theoretical Examination (FTE) will be used for most of the courses, except a few that are fully practical based (please refer to syllabi for individual courses) and will not use a final theoretical examination. CAF will focus on the use of progressive, sufficient assessment events and evidence as a feedback tool to promote and improve learning and teaching approaches, and attaining the competencies required to demonstrate exit level outcomes rather than an accumulation of final pass marks through a series of assessment events. Research has shown that it is more difficult to demonstrate all exit outcomes associated with job/professional competencies solely in a written final examination (Akkermans, et al., 2013). Intra-semester assessments will require prompt and constructive feedback.

Quality assurance requirements
Each course (please refer to the detailed Qualification Requirements) will have one or more examiner/s and one or more moderator/s. Moderators will be identified both internally and externally. The required minimum qualification of the moderator should be a Bachelor Honours degree in Geoinformation Technology or a related field of studies. Lecturing staff will set and mark tests and/or examinations which will, together with relevant study material for that particular course and other material containing course learning outcomes in the context of the qualification learning outcomes, be forwarded to the moderator for moderation purposes, thus, ensuring quality of the assessment and the qualification as a whole. All exit level courses for this programme, i.e. courses at NQF level 7, will be externally moderated.

CURRICULUM

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
Year 1				
Semester 1				
IGD411S	Introduction to Geospatial Data	None	4	8
CUS411S	Computer User Skills	None	4	10
ILP511S	Introduction to Land Use Planning & Management	None	5	12
MSS511S	Mathematics and Statistics for Spatial Science	None	5	12
EAP511S	English for Academic Purposes	English in Practice, or English in Practice B or Module 3 or Principles of English Language Use	5	14
Semester 2				
GES512S	Geographic Information Systems 1 Computer User Skills	Introduction to Geospatial Data,	5	12
WDF521S	Web Development Fundamentals	None	5	10
OSN521S	Introduction to Operating Systems and Networks	Computer User Skills	5	10
ISM520S	Introduction to Survey and Mapping	Introduction to Geospatial Data	5	12
SYD611S	Sustainability and Development	None	5	12
Year 2				
Semester 3				
	Web GIS	Computer User Skills	5	12
	Cartography and Map Visualisation	Geographic Information Systems 1	5	12
RES511S	Remote Sensing 1	Mathematics and Statistics for Spatial Science	5	12
DBF510	Database Fundamentals	None	5	10
ICT512S	Information Competence	None	5	10
GMN621S	Geoinformation Management	Geographic Information Systems 1	5	12
Semester 4				
SEH621S	Software Engineering 1 and HCI	Web Development Fundamentals	6	12
DPT621S	Database Programming and Techniques	Database Fundamentals	6	12
PGI520S	Programming for Geoinformatics	Mathematics and Statistics for Spatial Science	5	12
GES612S	Geographic Information Systems 2	Geographic Information Systems 1	6	12
RES612S	Remote Sensing 2	Remote Sensing 1	6	12
	GIT Camp	Geographic Information Systems 1, Remote Sensing 1	5	8
Year 3				
Semester 5				
GDB611S	Geodatabases	Database Fundamentals, Geographic Information Systems 2	6	12
GDG621S	Geodemographics	Geographic Information Systems 2	6	12
DPG710S	Digital Photogrammetry	Remote Sensing 1	6	12
GES711S	Geographic Information Systems 3	Geographic Information Systems 2	7	12
GIP710S	GIS Programming	Programming for Geoinformatics, Geographic Information Systems 2	7	12
Semester 6				
SPS721S	Spatial Statistics	Geographic Information Systems 3, Remote sensing 2	7	12
AWG721S	Advanced Web GIS	Web GIS, Geodatabases	7	12
WOK721S	Work Integrated Learning Semester 5	All courses up to and including	7	36

BACHELOR OF GEOINFORMATION TECHNOLOGY **07GITB**
(Old curriculum – Phasing out from 2020 until 2022)

NQF Level: 7 **NQF Credits: 368** **NQF Qualification ID: Q0737**

Description
The Bachelor of Geoinformation Technology aims to provide a skilful and competent labour force for the growing Geographic Information Systems (GIS) industry in Namibia. The programme provides a systematic and coherent introduction to the main theories, broad principles, concepts, data, and problem-solving techniques in the main cognate area, i.e. Geoinformation Technology. The programme is designed to provide graduates with a blend of cognitive and intellectual skills, as well as practical and theoretical skills necessary to successfully design, implement and apply geoinformation technologies that can be used as decision supporting tools in solving spatial problems. The focus of the programme will be the development of essential practical skills alongside training in fundamental spatial concepts and theory.

Graduates will be qualified to serve as scientists in a wide range of activities involving geosciences, geography, GIS, remote sensing, databases, programming and computing. The continual development and expansion of the geospatial data infrastructure in Namibia (and at SADC level), and the need to analyse these earth-oriented data to achieve development objectives, will ensure a constant need for qualified scientists in these fields. This programme represents a gateway to an academic career for some students, and for others it will facilitate career advancement in their current fields of employment, either in the public sector or private industry.

Admission Criteria
In addition to meeting the University's minimum admission requirements as spelt out in the general rules, candidates must have a total of 18 points on the evaluation scale for Mathematics, Physical Science and Geography or Natural science in a combination of symbols on NSSC Higher or Ordinary Level or both. Only one of the above subjects may be as low as a C on Ordinary Level or a 4 on Higher Level.

The Head of Department or his/her nominee may admit candidates who do not have the required minimum symbol for one of the above subjects, provided that such candidates have very strong symbols for the other two subjects and that the total point score for the three subjects is not lower than 18. Such candidates may be required to enrol for a bridging course at the discretion of the department.

Articulation Arrangements
Transfer of credits will be dealt with according to the University's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credit for a qualification.

Upon successful completion of the Bachelor of Geoinformation Technology, students will ordinarily be able to pursue further studies in Geoinformation Technology, or a related cognate area of learning, at NQF Level 8.

Mode of Delivery
The programme will be delivered on full-time mode only, in accordance with the University's rules. The e-learning mode will only be considered with some courses after the programme is deemed to have reached the necessary level of maturity.

Work Integrated Learning - GIT
This programme also includes Work Integrated Learning (WIL) - GIT which integrates work experiences with learning in a way traditional education cannot do. It provides students with opportunities to:

- Execute tasks related to Geoinformation Technology at the work place;
- Network with professionals and build relationships that can help students in their future endeavours;
- Have access to companies for full-time positions after graduation once good rapport has been established between the students and the companies;
- Interact with people from diverse backgrounds and develop interpersonal skills that are not possible in a classroom environment.

During WIL, students will be linked to ongoing practically-orientated and interdisciplinary projects executed in industry and Government (off or on campus) to effectively develop the student's core capabilities in the field of GIT and to enhance the utilisation of 'state of the art" GIT work procedures in alignment with available proprietary and possible open source software solutions. The two courses that are done in the same semester as WIL, will be taught interactively, and will be done through an accelerated teaching approach.

Transition Arrangements
The Bachelor of Geoinformation Technology (old curriculum) will be phased out systematically until 2019 with minimum disruption to existing students' learning progression. The last intake of 1st year student on the 2011 curriculum was in January 2014.

Students who are registered in 2014 for 1st year of the out-phasing programme (old curriculum), and who fail more than 50% of the courses at the end of 2014, will be required to change their registration to the revised programme (new curriculum) and will be granted credits on a course-by-course basis in accordance with the information in Table 1 below.

The revised Bachelor of Geoinformation Technology (new curriculum) will take effect from January 2015 and will be completely phased in by 2017. Courses will only be offered based on the new/revised syllabi in 2015 (1st year), 2016 (2nd2nd year) and 2017 (3rd year). Students who fail any of the courses on the 2011 curriculum will be required to repeat such failed courses based on the syllabi of new/revised corresponding courses. Please refer to the Table 2 below, for detailed information on the new/revised corresponding courses to be done if courses on the 2011 curriculum are failed.

The deadline for complete phasing out of the Bachelor of Geoinformation Technology (old curriculum) is 2019 after which students must automatically switch to the revised programme (revised curriculum) and fulfill all requirements based on the new curriculum.

Table 1: First year courses to be credited

Bachelor of Geoinformation Technology (Old Courses)		**Bachelor of Geoinformation Technology (New/Revised Courses)**	
Course Code	**Course Name**	**Course Code**	**Course Name**
ITM111S	Introduction to Mathematics	MSS511S	Mathematics and Statistics for Spatial Science
IGD411S	Introduction to Geospatial Data	IGD411S	Introduction to Geospatial Data
ILP510S	Introduction to Land Use Planning & Management	ILP510S	Introduction to Land Use Planning & Management
CUS411S	Computer User Skills	CUS411S	Computer User Skills
LIP411S	Language in Practice	PLU411S	Principles of English Language Use
BSC410S	Basic Science	BSC410S	Basic Science
GES512S	Geographic Information Systems 1	GES512S	Geographic Information Systems 1
EPR511S	English in Practice	EPR511S	English in Practice
IDB220S	Introduction to Databases 1B	DBF510S	Database Fundamentals
ISM520S	Introduction to Survey and Mapping	ISM520S	Introduction to Survey and Mapping
ICT512S	Information Competence	ICT512S	Information Competence
PGI520S	Programming for Geoinformatics	PGI520S	Programming for Geoinformatics
ONS120S	Operating Systems and Networks	OSN521S	Introduction to Operating Systems and Networks
Second year: Courses to be credited			
BWC511S	Basic Web Cartography	BWC511S	Basic Web Cartography
DCV512S	Digital Cartography & Visualisation	DCV512S	Digital Cartography & Visualisation
RES511S	Remote Sensing 1	RES511S	Remote Sensing 1
LIS611S	Land Information Systems	LIS611S	Land Information Systems
IDB220S	Introduction to Databases 1B	DBF510S	Database Fundamentals
SED210S	Software Analysis and Design	SEH621S	Software Engineering 1 and HCI
DBP220S	Database Programming	DPT621S	Database Programming and Techniques
GIM612S GIM711S	Geoinformation Management 1, Geoinformation Management 2	GMN621S	Geoinformation Management
GES612S	Geographic Information Systems 2	GES612S	Geographic Information Systems 2
RES612S	Remote Sensing 2	RES612S	Remote Sensing 2
Third year: Courses to be credited			
EAP511S	English for Academic Purposes	EAP511S	English for Academic Purposes
GDB611S	Geodatabases	GDB611S	Geodatabases
GDG611S	Geodemographics	GDG621S	Geodemographics
GIP710S	GIS Programming	GIP710S	GIS Programming
GES711S	Geographic Information Systems 3	GES711S	Geographic Information Systems 3
CIS610S	Contemporary Issues	CIS610S	Contemporary Issues
GSA712S	Geostatistical Analysis	SPS721S	Spatial Statistics
AWG721S	Advanced WebGIS	AWG721S	Advanced WebGIS
GIP712S	GIT in Practice (WIL)	WOK721S	Work Integrated Learning- GIT

Table 2: Corresponding course (if failed). This is not a credit table!

Bachelor of Geoinformation Technology (Old Courses)		**Bachelor of Geoinformation Technology (New/Revised Corresponding Courses)**	
Course Code	**Course Name**	**Course Code**	**Course Name**
ITM111S	Introduction to Mathematics	MSS511S	Mathematics and Statistics for Spatial Science
ONS120S	Operating Systems and Networks	OSN521S	Introduction to Operating Systems and Networks
WDF220S	Web Development Fundamentals	WDF521S	Web Development Fundamentals
IDB220S	Introduction to Databases 1B	DBF510S	Database Fundamentals
GIM612S	Geoinformation Management 1	GMN621S	Geoinformation Management
SED210S	Software Analysis and Design	SEH621S	Software Engineering 1 and HCI
GDG611S	Geodemographics	GDG611S	Geodemographics
DBP220S	Database Programming	DPT621S	Database Programming and Techniques
GSA712S	Geostatistical Analysis	PS721S	Spatial Statistics

The following old courses do not have corresponding courses in the Bachelor of Geoinformation Technology (new curriculum) and will be offered until the Bachelor of Geoinformation Technology (2011 curriculum) is completely phased out by the end of 2019:

- Tools and Techniques (TTS511S)
- Introduction to Software Engineering (ISW120S)
- Geoinformation Management 2 (GIM711S)

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
IGD411S	Introduction to Geospatial Data	None	4	8
PLU411S	Principles of English Language Use	None	4	NCB
CUS411S	Computer User Skills	None	4	10
BSC410S	Basic Science	None	4	8
ILP510S	Introduction to Land Use Planning and Management	None	5	12
MSS511S	Mathematics and Statistics for Spatial Science	None	5	12
Semester 2				
GES512S	Geographic Information Systems 1	Introduction to Geospatial Data, Computer User Skills	5	12
WDF521S	Web Development Fundamentals	None	5	10
EPR511S	English in Practice	Language in Practice/ Principles of English Language Use	5	NCB
OSN521S	Introduction to Operating Systems and Networks	Computer User Skills	5	10
ISM520S	Introduction to Survey and Mapping	Introduction to Geospatial Data	5	12
PGI520S	Programming for Geoinformatics	Mathematics and Statistics for Spatial Science, Computer User Skills	5	12
Year 2				
Semester 3				
BWC511S	Basic Web Cartography	Computer User Skills	5	12
DCV512S	Digital Cartography & Visualisation	Introduction to Geospatial Data	5	12
RES511S	Remote Sensing 1	Introduction to Geospatial Data, Mathematics and Statistics for Spatial Science	5	12
LIS611S	Land Information Systems	Geographic Information Systems 1	6	12
DBF510S	Database Fundamentals	None	5	10
ICT512S	Information Competence	None	5	10
Semester 4				
SEH620S	Software Engineering 1 and HCI	Web Development Fundamentals	6	12
DPT621S	Database Programming and Techniques	Database Fundamentals	6	12
GMN621S	Geoinformation Management	Geographic Information Systems 1, Remote Sensing 1	6	12
GES612S	Geographic Information Systems 2	Geographic Information Systems 1	6	12
RES612S	Remote Sensing 2	Remote Sensing 1, Geographic Information Systems 1	6	12
Year 3				
Semester 5				
EAP511S	English for Academic Purposes	English in Practice	5	14
GDB611S	Geodatabases	Database Fundamentals, Geographic Information Systems 2	6	12
GDG621S	Geodemographics	Geographic Information Systems 2	6	12
GIP710S	GIS Programming	Programming for Geoinformatics, Geographic Information Systems 2, Software Engineering 1 and HCI	7	12
GES711S	Geographic Information Systems 3	Geographic Information Systems 2	7	12
CIS610S	Contemporary Issues	None	6	12
Semester 6				
SPS721S	Spatial Statistics	Geographic Information Systems 3, Remote Sensing 2	7	12
AWG721S	Advanced Web GIS	Basic Web Cartography, Web Development Fundamentals, Geodatabases	7	12
WOK721S	Work Integrated Learning (WIL)	All courses up to and including Semester 5	7	36

DEPARTMENT OF ARCHITECTURE AND SPATIAL PLANNING Code 91

QUALIFICATIONS OFFERED

Bachelor of Architecture.....07BARC
Bachelor of Town and Regional Planning 07BTAR
Bachelor of Regional and Rural Development 07BRAR
Bachelor of Quantity Surveying 07BOQS

BACHELOR OF ARCHITECTURE 07BARC

NQF Level: 7 **NQF Credits: 388** **NQF Qualification ID: Q0993**

Description

Successful completion of the Bachelor of Architecture will enable registration as Candidate Architectural Technologists with the Namibia Council for Architects and Quantity Surveyors (NCAQS) in terms of Act 13 of 1979, and Act 11 of 1992.

Criteria for Admission

The admission of students to the programme is via three routes: General Admission by means of a 3-stage selection process; admission via the Mature Age Entry Scheme; and admission with Advanced Standing or Recognition of Prior Learning, as set out below.

General Admission

First Stage:

Candidates are to be assessed on academic merit only. Candidates apply for this stage with their latest Grade 12/NSSC Ordinary Level (NSSCO) and/or NSSC Higher Level (NSSCH) results and/or relevant INSTEM results obtained from NUST. Candidates are required to meet the following minimum academic criteria to be considered:

- At least 12 points on the NUST evaluation scale for English and Mathematics using a combination of NSSCH and/or NSSCO, provided that no symbol lower than a C on NSSCO will be accepted.
- A minimum of 18 points on the NUST evaluation scale for any three other subjects out of the following (or their equivalent): Technical Drawing, Physical Science, Physics, Chemistry, Biology, Geography, Fine Art, Arts and Crafts, Literature, and Economics, using a combination of NSSCH and NSSCO, provided that no symbol lower than a C on NSSCO will be accepted.
- INSTEM results will be evaluated on a course-by-course basis according to NUST regulations.

Second Stage – Selection Test:

Candidates who meet the minimum academic requirements for admission will be invited for a selection test set by the Department. The selection test will assess candidates in terms of their general knowledge, knowledge of technical and scientific principles, free hand and technical drawing skills as well as English language skills. Based on the outcome of the selection test, the Department will compile a selection shortlist.

Prior learning in technical/geometrical drawing provides an extremely advantageous foundation for students entering all programmes leading to an architectural qualification. International applicants will be accommodated by distance.

Final Stage – Selection Interview:

Shortlisted candidates will be invited for selection interviews with the Selection Committee, after which a final selection list and ranked waiting list will be compiled. The results of the Selection Process are final, and no discussion or correspondence will be entertained. If the final Grade 12 and /or INSTEM results of candidates, who were selected provisionally, do not meet the minimum requirements, then final admission to the programme will be withheld. International applicants will be accommodated by distance. The decision of the Selection Committee is final, and no discussion of the results with the candidates will be entertained.

Mature Age Entry Scheme

Admission into the programme may be considered according to the NUST regulations on the Mature Age Entry Scheme as per Part 1 of the NUST Yearbook, General Information and Regulations. Candidates must adhere to regular NUST application deadlines. In addition to meeting the requirements set out in the NUST regulations, candidates will have to submit a portfolio of relevant work experience with their application, which will be evaluated as per requirements set out by the Department. Candidates whose portfolio meets the expected requirements, will be invited to the selection test as set out in 10.1.2 above and will follow the general admissions process from there onwards. International applicants will be accommodated by distance. The decision of the Selection Committee is final, and no discussion of the results with the candidates will be entertained.

Admission with Advanced Standing or Recognition of Prior Learning

For candidates who have partially completed an equivalent qualification at another institution, admission into the programme may be considered according to the NUST regulations on Admission with Advanced Standing (evaluation of credits by volume) or Recognition of Prior Learning (evaluation of credits on a course-by-course basis) as per Part 1 of the NUST Yearbook, General Information and Regulations. Candidates must adhere to regular NUST application deadlines. In addition to meeting the requirements set out in the NUST regulations, candidates will have to submit a portfolio of works of their previous studies with their application, which will be evaluated as per requirements set out by the Department. Eligible candidates will be invited for an interview with the Selection Committee, including a portfolio review. International applicants will be accommodated by distance. The decision of the Selection Committee is final, and no discussion of the results with the candidates will be entertained.

Articulation Arrangements

Transfer of credits will be dealt with according to the NUST regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification.

Students who complete the Bachelor of Architecture successfully will typically be able to undertake further studies in architecture or related disciplines at NQF Level 8.

Mode of Delivery

This programme is offered on the full-time mode in accordance with NUST's rules and regulations.

Requirements for Qualification Award

The Bachelor of Architecture will be awarded to candidates credited with a minimum of 388 NQF credits. In addition, students should meet the administrative and financial requirements in accordance with Yearbook Part 1 of the NUST Yearbook, General Information and Regulations.

Transition Arrangements

The revised programme (new curriculum) was implemented in January 2017. Returning students will receive credits for old curriculum courses passed and will need to do equivalent courses for their outstanding courses as per the table below.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisite	NQF Level	NQF Credits
ARD511S	Architectural Design 1A	None	5	20
ABS511S	Applied Building Science	None	5	16
ACC511S	Architecture in Context	None	5	10
GPC511S	Graphics and Communication	None	5	10
CUS411S	Computer User Skills	None	4	10

Semester 2

ARD521S	Architectural Design 1B	None	5	20
CST521S	Construction Technology 1	None	5	10
LSC521S	Landscape and Context	None	5	10
ATD521S	Architectural Drafting	None	5	16
ICT521S	Information Competence	None	5	10
VTS521S	Vertical Studio 1	None	5	4

Year 2
Semester 3

ARD611S	Architectural Design 2A	Architectural Design 1A; Architectural Design 1B	6	20
CST611S	Construction Technology 2	Construction Technology 1	6	16
AAD611S	Architecture and Discourse	None	6	10
CAD611S	Computer Aided Drafting and Visualisation	None	6	10
EAP511S	English for Academic Purposes	English in Practice	5	14

Semester 4

ARD621S	Architectural Design 2B	None	6	20
BDS621S	Building Structures	None	6	16
HEL621S	Housing and Everyday Life	None	6	10
ISM520S	Introduction to Survey and Mapping	* None	5	12
VSD521S	Vertical Studio 2	None	5	4

** In consultation with the Department of Geo-Spatial Science and Technology (DGST), Senate approved to exempt Architecture students from the prerequisite for ISM520S.*

Year 3
Semester 5

WIA711S	Work Integrated Learning: Architecture	Architectural Design 2A; Architectural Design 2B; Construction Technology 2	7	60

Semester 6

ARD721S	Architectural Design 3	Work Integrated Learning: Architecture	7	20
EAS621S	Environment and Services	None	6	16
PUD721S	Principles of Urban Design	None	7	10
CGI721S	Computer Generated Imagery	None	7	10
VTS621S	Vertical Studio 3	None	6	4

BACHELOR OF TOWN AND REGIONAL PLANNING **07BTAR**

NQF level: 7 **NQF Credits: 396** **Qualifications ID: Q0228**

Admission Requirements

Candidates may be admitted to the Bachelor of Town and Regional Planning, if they meet the General Admission Requirements of the Namibia University of Science and Technology and comply with the additional requirements below:

- A minimum of 11 points for English (Second Language- Ordinary Level) and Mathematics based on the University Admission Point System, using a combination of NSSC Ordinary Level and/or NSSC Higher Level, provided that the symbol for both subjects should not be lower than a C on NSSC(O) or 4 at NSSC(H);
- A minimum of 19 points for three other subjects on the University's Admission Point System, using a combination of NSSC(O) and/or NSSC(H), provided that no symbol be lower than D on NSSC Ordinary for the other subjects.

At the discretion of the Department, a more in-depth selection process could be followed which may include either a test or an interview.

Candidates who meet the Mature Age Entry Requirements of the University may be considered for admission, but will be required to have a minimum of 3 years work experience in the field of town and regional planning completed under appropriate supervision.

Candidates who hold the National Diploma in Land Use Planning may be considered for admission, if they have passed the courses Land Use Planning 3, Natural Resource Management 3 and Legal and Institutional Framework with a combined minimum of at least 60%. Credit Recognition will be granted for courses completed under the National Diploma in Land Use Planning.

Transition Arrangements

This is a new programme that does not replace any existing programme(s). Transition arrangements are, therefore, not applicable**.**

CURRICULUM

Year 1				
Semester 1				
Course Code	**Course Title**	**Prerequisite(s)**	**NQF Level**	**NQF Credits**
CUS411S	Computer User Skills	None	4	10
ISO511S	Introduction to Sociology	None	5	12
IGD411S	Introduction to Geo Spatial data	None	4	8
ERP511S	English in Practice	None	5	NCB
PMI511S	Principles of Micro Economics	None	5	12
ILP511S	Introduction to Land Use Planning and Management	None	5	12
BSC410S	Basic Science	None	4	8
Semester 2				
ISM520S	Introduction to Survey and Mapping	Introduction to Geo Spatial Data	5	12
LTS520S	Land Tenure Systems	None	5	12
GES512S	Geographical Information Systems 1	Introduction to Geo Spatial Data, Computer User Skills	5	12
LED520S	Local Economic Development	None	5	12
EAP511s	English for Academic Purposes	Language in Practice	5	14
ICT521S	Information Competence	None	5	10
Year 2				
Semester 3				
PWR611S	Professional Writing	English for Academic Purposes	6	14
CCS611S	Critical City Structure and Components	None	6	10
CEP610S	Civil Engineering for Planning	None	6	6
CAD510S	Computer Aided Drafting	Computer User Skills, Introduction to Geo Spatial data	5	12
IAS501S	Introduction to Applied Statistics	None	4	12
WPM601Y	WIL – Planning Participatory Methods	None	6	16

Semester 4

IRF620S	Institutional and Regulatory Framework	None	6	10
ISP620S	Introduction to Society and Planning	Introduction to Sociology	6	12
PLP621S	Principles and Guidelines for Layout Planning	Critical City Structure and Components	6	10
SHP621S	Settlement History and Planning Theory	None	6	12
RDT620S	Rural Development Tools & Techniques	Introduction to Sociology	6	12

Year 3

Semester 5

PNH610S	Planning for Housing	None	6	10
CAC610S	Comparative African Cities	None	6	10
EVP510S	Environmental Planning	None	5	12
WLD711S	WIL – Layout Drafting Studio	All courses for semesters 1 to 4.	7	15
DPS610S	Demography and Population Studies	Introduction to Applied Statistics	6	10
WCB701Y	WIL – Community Based Project	All courses for semesters 1 to 4	7	16

Semester 6

CIS610S	Contemporary Issues	None	6	12
PUD721S	Principles of Urban Design	None	7	10
LUD721S	Land Use and Development Management Practice	Introduction to Land Use Planning and Management, Institutional and Regulatory Framework	7	12
SSP720S	Sustainable Settlement Planning	Environmental Planning	7	15
DPP720S	Development Policies and Processes	None	7	14

BACHELOR OF REGIONAL AND RURAL DEVELOPMENT **07BRAR**

NQF level: 7 **NQF Credits: 388** **NQF Qualifications ID: Q0231**

Admission Requirements
Candidates may be admitted to this programme, if they meet the General Admission Requirements of the Namibia University of Science and Technology and comply with the additional requirements below:

- a minimum of 30 points based on the Namibia University of Science and Technology Admission Point System, using a combination of NSSC Ordinary Level and/or NSSC Higher Level subjects, provided that the symbol for the English, as Second language, should not be lower than an D on NSSC (O) and the symbol for Mathematics should not be lower than a E on NSSC (O) level.

At the discretion of the Department, a more in-depth selection process could be followed which may include either a test or an interview.

Mature age candidates will be considered provided they meet the requirements and pass the mature age entrance examinations of the Namibia University of Science and Technology.

Transition Arrangements
This is a new programme that does not replace any existing programme(s). Transition arrangements are, therefore, not applicable.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisite(s)	NQF Level	NQF Credits
IGD411S	Introduction to Geo Spatial data	None	4	8
ITM111S	Introduction to Mathematics	None	5	10
LIP411S	Language in Practice	None	4	NCB
CUS411S	Computer User Skills	None	4	10
ILP510S	Introduction to Land Use Planning and Management	None	5	12
ITP511S	Introduction to Public Management	None	5	12
BSC410S	Basic Science	None	4	8

Semester 2

GES512S	Geographical Information Systems 1	Introduction to Geo Spatial Data, Computer User Skills	5	12
EPR511S	English in Practice	Language in Practice	5	NCB
IGE420S	Introduction to Geography	None	5	10
AEM520S	Agricultural Economics	Introduction to Mathematics	5	10
PMN521S	Public Management in Namibia	Introduction to Public Management	5	12
SRP520S	Statistics for Regional Planners	Introduction to Mathematics, Introduction to Geo Spatial data	5	12
ICT521S	Information Competence	None	5	10

Year 2
Semester 3

PTY510S	Planning Theory 1	None	5	10
CEP610S	Civil Engineering for Planning	None	6	6
LUP610S	Land Use Planning 2	Introduction to Land Use Planning and Management	6	12
NRM511S	Natural Resource Management	None	5	12
RLG611S	Regional and Local Government Management	Public Management in Namibia	6	13
RLC620S	Rural Livelihoods and Community Development	None	6	12

Semester 4

GES612S	Geographical Information Systems 2	Geographical Information Systems 1	6	12
IRF620S	Institutional and Regulatory Framework	None	6	10
IEM621S	Integrated Environmental Management	None	6	12
EAP511S	English for Academic Purposes	English in Practice	5	14
RDT620S	Rural Development Tools and Techniques	None	6	12

Year 3

Semester 5

ASP720S	Applied Spatial Planning	Planning Theory 1, Institutional and Regulatory Framework	7	15
ARR720S	Applied Regional and Rural Economic Development	Agricultural Economics, Rural Livelihoods and Community Development	7	15
ICE712S	Innovation, Creativity and Entrepreneurship	None	7	15
NRS711S	Natural Resource Management & Sustainable Development	None	7	12

PLUS ONE of the following electives:

DMA711S	Development management	Introduction to Public Management	7	14
UDM711S	Urban development and Management	Regional and Local Government Management	7	15

Semester 6

CIS610S	Contemporary Issues	None	6	12
WIR710S	Work Integrated Learning for Regional	All courses for semesters 1 to 4	7	45

PLUS ONE of the following electives:

DRM721S	Disaster Risk Management	None	7	14
OOM420S	Organisation and Operational Management	None	7	15

BACHELOR OF QUANTITY SURVEYING **07BOQS**

NQF Level: 7 **NQF Credits: 392** **NQF Qualification ID: Q0985**

Description
On successful completion of the Bachelor of Quantity Surveying, graduates will be eligible for registration as Candidate Quantity Surveying Technologist with the Namibia Council for Architects and Quantity Surveyors (NCAQS) in terms of Acts 13 of 1979, and Act 11 of 1992.

Criteria for Admission
The admission of students to the programme is via three routes: General Admission; admission via the Mature Age Entry Scheme; and admission with Advanced Standing *or* Recognition of Prior Learning, as set out below.

General Admission
Candidates are to be assessed on academic merit only. Candidates apply with their latest Grade 12/NSSC Ordinary Level (NSSCO) and/or NSSC Higher Level (NSSCH) results and/or relevant INSTEM results obtained from NUST. Candidates are required to meet the following minimum academic criteria to be considered:

- At least 12 points on the NUST evaluation scale for English and Mathematics using a combination of NSSCH and/or NSSCO, provided that no symbol lower than a C on NSSCO will be accepted.
- A minimum of 18 points on the NUST evaluation scale for any three other subjects out of the following (or their equivalent): Technical Drawing, Physical Science, Physics, Chemistry, Biology, and Economics, using a combination of NSSCH and NSSCO, provided that no symbol lower than a C on NSSCO will be accepted.
- INSTEM results will be evaluated on a course-by-course basis according to NUST regulations.

If the final Grade 12 and/or INSTEM results of candidates, who were selected provisionally, do not meet the minimum requirements, then final admission to the programme will be withheld. The decision of the Selection Committee is final, and no discussion of the results with the candidates will be entertained.

Mature Age Entry Scheme
Admission into the programme may be considered according to the NUST regulations on the Mature Age Entry Scheme as per Part 1 of the NUST Yearbook, General Information and Regulations. Candidates must adhere to regular NUST application deadlines. In addition to meeting the requirements set out in the NUST regulations, candidates will have to submit a portfolio of relevant work experience with their application, which will be evaluated as per requirements set out by the Department. Candidates whose portfolio meets the expected requirements, will be invited for an interview with the Selection Committee, including a portfolio review. An advanced Diploma in any of the building trades could be considered favourably by the Selection Committee. The decision of the Selection Committee is final, and no discussion of the results with the candidates will be entertained.

Admission with Advanced Standing *or* Recognition of Prior Learning
For candidates who have partially completed an equivalent qualification in Quantity Surveying or any other related building trade at another institution, admission into the programme may be considered according to the NUST regulations on Admission with *Advanced Standing* (evaluation of credits by volume) or *Recognition of Prior Learning* (evaluation of credits on a course-by-course basis) as per Part 1 of the NUST Yearbook, General Information and Regulations. Candidates must adhere to regular NUST application deadlines.

In addition to meeting the requirement set out in the NUST regulations, candidate will have to submit a portfolio of works of their previous studies with their application, which will be evaluated as per requirements set out by the Department. Eligible candidates will be invited for an interview with the Selection Committee, including a portfolio review. An advanced Diploma in any of the building trades could be considered favourably by the Selection Committee. The decision of the Selection Committee is final, and no discussion of the results with the candidates will be entertained.

Articulation Arrangements
Transfer of credits will be dealt with according to the NUST regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification.

Students who complete the Bachelor of Quantity Surveying successfully will ordinarily be able to undertake further studies in Quantity Surveying or related disciplines at NQF Level 8.

Mode of Delivery
This programme is offered on the full-time mode in accordance with NUST rules and regulations.

Requirements for Qualification Award

The Bachelor of Quantity Surveying will be awarded to candidates credited with a minimum of 392 NQF credits, and who have met the detailed requirements set out below. In addition, students should meet the administrative and financial requirements in accordance with Yearbook Part 1 of the NUST Yearbook, General Information and Regulations.

Transition Arrangements

This is a new programme, which does not replace any existing programme(s). Transition arrangements are, therefore, not applicable.

CURRICULUM

Course Code	Course Title	Prerequisite	NQF Level	NQF Credits
Year 1				
Semester 1				
ABS511S	Applied Building Science	None	5	16
MSS511S	Mathematics & Statistics for Spatial Sciences	None	5	12
PAD511S	Principles of Architectural Design	None	5	10
PMI511S	Principles of Microeconomics	None	5	12
TQS511S	Theory of Quantity Surveying	None	5	16
Semester 2				
BAC1100	Business Accounting 1A	None	5	10
CST521S	Construction Technology 1	None	5	10
CLR521S	Construction Legislation and Regulations	None	5	10
POM521S	Principles of Management	None	5	10
EAP511S	English for Academic Purposes	English in Practice	5	14
CUS411S	Computer User Skills	None	4	10
Year 2				
Semester 3				
BEL611S	Building and Engineering Law	Construction Legislation and Regulations	6	10
CSE611S	Construction Economics	None	6	10
CST611S	Construction Technology 2	Construction Technology 1	6	16
MSM511S	Measurement 1	None	5	20
ICT521S	Information Competence	None	5	10
Semester 4				
BDS621S	Building Structures	None	6	16
CAQ621S	Computer Applications for Quantity Surveying	None	6	10
ISM520S	Introduction to Survey and Mapping	None	5	12
EAS621S	Environment and Services	None	6	16
MSM621S	Measurement 2	Measurement 1	6	20
Year 3				
Semester 5				
WQS711S	Work Integrated Learning; Quantity Surveying	Measurement 2	7	60
Semester 6				
CPM721S	Construction Project Management	None	7	10
MSM721S	Measurement 3	Measurement 2	7	10
QSP721S	Quantity Surveying Project	Work Integrated Learning: QS	7	20
CSA621S	Construction Accounting	* None	6	10
CIS610S	Contemporary Issues	None	6	12

** In consultation with the Department of Geo-Spatial Science and Technology (DGST), Senate approved to exempt Quantity Surveying students from the prerequisite for ISM520S.*

POSTGRADUATE PROGRAMMES

FACULTY-WIDE QUALIFICATIONS OFFERED

MASTER OF SPATIAL SCIENCE 09MSPS

NQF Level: 9 **NQF Credits: 240** **NQF Qualification ID: Q0449**

Description

The Master of Spatial Science programme is of interdisciplinary nature and aims at students interested in, and adequately qualified and motivated for graduate education to become scientific researchers in various fields of study related to spatial sciences. The programme will enable students to deepen their knowledge of a particular surveying or spatial science information discipline for application, research and/or management purposes. Possible fields of specialisation include Geoinformatics, Urban and Regional Sciences, Land and Property Sciences, as well as Natural Resource Sciences. The precise focus of the research will be determined through dialogue between the candidate and supervising staff and will fall within the scope of the approved research clusters of the Department of Land Management, Faculty of natural Resources and Spatial Sciences.

Qualification Outcomes

Upon completing the Master of Spatial Science programme, students will be able to:

- Develop and present a comprehensive research proposal and associated research plan;
- Plan and conduct rigorous supervised research to internationally recognised standards by collecting, analysing, interpreting and evaluating quantitative and/or qualitative data;
- Demonstrate mastery of theoretically sophisticated subject matter and capacity for independent thinking and research;
- Produce a thesis which applies and/or develops appropriate tools for the planning and execution of a problem-driven research project;
- Demonstrate professional work ethic by producing the requisite combination of research, analysis and professional communication;
- Present research work in a professional and effective way, catering for a wide range of specialist and non-specialist audiences.

Admission Requirements

Applicants who hold qualifications from recognised institutions at NQF Level 8, or equivalent, in disciplines related to Spatial Science may be considered for admission to this programme. Applicants need to provide evidence of having conducted supervised research and may be required to make up specific deficiencies at the discretion of the Higher Degrees Committee. In addition, applicants may be required to attend a pre-selection interview and/or test at the discretion of the department.

Applicants from other institutions must submit detailed information on all courses in their previous qualifications, as well as contact details of three referees. The latter also applies to applicants who have been working in the field subsequent to obtaining their previous qualifications. Exceptions may be approved by the Higher Degrees Committee, and all admissions are at the discretion of the Higher Degrees Committee.

Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Higher Degrees Committee. These procedures will be fully explained to each prospective student during his or her personal interview.

Qualification Requirements

This qualification will be awarded to candidates credited with a minimum of 240 credits at NQF Level 9. The thesis will represent the entire body of work to be assessed and must meet the University's requirements as detailed in the rules for postgraduate studies. In addition, students should meet the administrative and financial requirements spelt out in Part 1 of the Namibia University of Science and Technology Yearbook.

Students have a minimum of two years and a maximum period of four years to complete the programme.

Teaching and Learning Strategies

The Higher Degrees Committee, on the recommendation of the Head of Department, will appoint supervisor(s)/co-supervisor(s) for each student. Students will be required to work independently in accordance with a pre-agreed research plan. Students will supervised, guided and supported through regular contact sessions using all available means during which study planning, progress, and other relevant topics are discussed.

Academic support will be provided in accordance with the University's rules and procedures for postgraduate studies leading to the award of research degrees.

Candidates are encouraged to pursue part of their research within the industry in Namibia, or at other recognised and established tertiary institutions abroad. The possibility to gain international experience by participating in international workshops will be promoted.

Assessment Strategies
Students are required to submit a research proposal after six months for approval by the Higher Degrees Committee. It is compulsory that students attend regular research methodology seminars until successful defense and approval of the research proposal. Students are required to present work-in-progress every six months during research seminars for monitoring and assessment purposes. Students who fail the initial assessment of the research proposal will receive an extension of six months for re-approval.

In compliance with the general requirements of Senate, students are required to submit a thesis for evaluation, which should comply with international academic standards. The thesis requires students to work independently and to investigate their own individual research topic. Students are required to cultivate a professional work ethic to deliver the combination of research, analysis, communication and presentation demanded by their thesis. The thesis will be assessed in accordance with the rules for studies at postgraduate level.

Students will present and defend their thesis before an appropriate constituted committee in accordance with the rules for postgraduate studies at the University. The thesis will be returned to students for correction before final binding and archiving. Final marks will only be released after correction of the thesis.

Transition Arrangements
This is a new programme and transition arrangements are, therefore, not applicable.

CURRICULUM

Year 1

Semester 1 **Course Code**	**Course Title**	**Prerequisites**	**NQF Level**	**NQF Credit**
MGT911S	Thesis Spatial Science	None	9	240
Semester 2				
MGT912S	Thesis Spatial Science	None		
Semester 3				
MGT913S	Thesis Spatial Science	None		
Semester 4				
MGT914S	Thesis Spatial Science	None		
Semester 4+				
MGT915X	Thesis Spatial Science Extension	None		

DOCTOR OF PHILOSOPHY IN SPATIAL SCIENCES **10DPSS**

NQF Level: 10 **NQF Credits: 360** **NQF Qualification ID: Q0974**

Description
The Doctor of Philosophy (PhD) in Spatial Sciences is aimed at equipping students with deepened knowledge and research skills in their specialisation area by creating new knowledge that will bring solutions and implement new ideas to the spatial sciences. The programme focuses on the broad, deepening and research-based learning in the area of Spatial Sciences.

The programme will enable students to develop a thorough understanding of relevant methodological approaches and develop competence in fields of one or more of the subfields in Spatial Sciences, through participation in research projects under supervision of experienced staff members. In addition, students are required to investigate, design, and conduct independent research, with focus on special research questions, apply advanced methods and techniques and/or deal with a sophisticated application problem connected with the topic of interest.

The prospective students will be mainly graduates of the Master Programmes of the Faculty of Natural Resources and Spatial Sciences and graduates of similar Master programmes at other universities. Master programmes in cognate areas may also qualify for admission to the programme under certain conditions.

Criteria for Admission
Applicants who hold qualifications from recognised institutions at NQF level 9 in Spatial Science related subjects and/or related cognate areas can be considered for admission to this programme. Applicants need to provide evidence of having conducted supervised research at master degree level. In addition, applicants will be requested to attend a pre-selection interview at the discretion of the FNRSS. The applicants may be requested to make up specific deficiencies at the discretion of the Dean, through the respective Head of Departments. Apart from the applicant's qualification, the admission of an applicant will also depend on the availability of a qualified and competent supervisor for the planned topic and the available staff resources of the affected department(s). Applicants are welcome to approach the relevant department directly, to discuss possibilities before drafting a concept paper, which is expected to be submitted in draft form prior to the formal application for admission to the programme.

The Higher Degrees Committee (HDC) will approve the final selection and admission of the selected candidates in accordance with the regulations as specified by *Rules for Postgraduate Studies* of the NUST Yearbook (Part 1). Hence, the continuation of the admission to the programme is conditional on the production and approval of a research proposal, which needs to be submitted within the first two semesters for full-time students and within the first three semesters for part-time students. Additional information is given in the *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes.*

It is recommended that candidates submit their applications within the window of opportunity provided by NUST for applications, normally between June and August, with intent to register at the beginning of the following semester, usually in late January or early February. Application or registration outside of the normal periods will be subject to payment of late application fee or late registration fee, and processing may be delayed.

Articulation Arrangements
The PhD in Spatial Science is a terminal qualification, hence no articulation arrangements are proposed.

Mode of Delivery
The qualification will be delivered on a full-time or part-time basis in accordance with the NUST *Rules for Postgraduate Studies.* Students may interchange between full and part-time according to the speed of their progress. The whole programme is comprised of semester courses, each of which needs to be registered for in succession. Students may also opt to suspend for one or (a maximum of) two semesters, provided that the Higher Degrees Committee (HDC) is formally informed and that the supervisor provides no service to the student for those semesters. If the student skips more than two semesters, then a form for resumption of studies will need to be submitted upon re-registration within three years of first registration. If this period is exceeded without registration and the former student wishes to continue with the PhD programme, then a new application would need to be submitted from scratch.

If a research proposal is rejected by HDC without the option of improving it, then the student will not be permitted to register for the following course in the programme. Students who exceed the minimum registration period for the relevant mode of study will be registered for the Thesis Extension course in the subsequent semesters, until they complete or reach the maximum study period. Additional information is given in the *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes.*

Requirements for Qualification Award
This qualification will be awarded to candidates credited with a minimum of 360 credits (all at NQF Level 10). The thesis will represent the entire body of work to be assessed and must meet the NUST requirements as detailed in the Rules for Postgraduate Studies and the Guidelines for the Implementation of Master and Doctoral Programmes. In addition, students should meet the administrative and financial requirements as spelt out in Part 1 of the NUST Yearbook.

Students who register for the full-time option every semester would be expected to complete the programme within six semesters but may be permitted to extend to a maximum of 10 semesters while registering and paying for additional semester courses. Students who register for the part-time option every semester would be expected to complete the programme within 12 semesters but may be permitted to extend to a maximum of 16 semesters while registering and paying for additional semester courses. Students who opt for a combination of full and part-time registrations, will be permitted extra semesters in proportion to the number of semesters they registered under each option.

Teaching and Learning Strategies
The Higher Degrees Committee will appoint supervisor(s) and/or co-supervisor(s) for each student. Students will be required to work independently in accordance with a pre-agreed research plan that has to be submitted according to the time-frame as specified by the *Rules for Postgraduate Studies* of the NUST Yearbook (Volume 1) and the *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes.* Students will be supervised, guided and supported through regular contact sessions using all available means during which study planning, progress, and other relevant topics are discussed.

Depending on the subject matter background and the qualification and experience of the PhD student in general and on the proposed topic in particular, the supervisor may prescribe the attendance of one or more courses to address any identified technical, methodical and subject matter deficiencies of the student. Such course work may be done within existing NUST programmes or at another recognised institution in Namibia or abroad. The course fees for such courses are covered by the student fees for the PhD programme, if courses within the framework of existing NUST programmes are being used for this purpose.

Academic support will be provided in accordance with the NUST *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes, the Rules for Postgraduate Studies* of Part 1 of the NUST Yearbook and other rules and procedures for postgraduate studies leading to the award of research degrees. The possibility to gain international experience by participating in international conferences will be promoted. Candidates are encouraged to pursue part of their research within industry in Namibia, or at other recognised and established tertiary institutions abroad.

Any other special arrangements will be done in accordance with the NUST *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes,* and the *Rules for Postgraduate Studies* of Part 1 of the NUST Yearbook.

Assessment Strategies
Students are required to submit a research proposal for approval by the Higher Degrees Committee (HDC), in accordance with the details as specified in the *Rules for Postgraduate Studies* of Part 1 of the NUST Yearbook and the NUST *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes.*

In compliance with the general requirements of Senate, students are required to submit a thesis for evaluation, which should comply with international academic standards. The thesis requires students to work independently and to investigate their own individual research topic. Students are required to cultivate a professional work ethic to deliver the combination of research, analysis, communication and presentation demanded by their thesis. The thesis will be assessed in accordance with the *Rules for Postgraduate Studies* of Part 1 of the NUST Yearbook and the NUST *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes.*

Students will present and defend their thesis before an appropriately constituted panel in accordance with these regulations for postgraduate studies. The thesis will be returned to the students for correction before final binding and archiving. The doctoral certificate will only be released after correction of the thesis.

Any other special arrangements will be done in accordance with the *Rules for Postgraduate Studies* of Part 1 of the NUST Yearbook and the NUST *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes.*

Quality Assurance Arrangements
Qualified academics and practitioners with Doctoral Degrees will assess the thesis. The examiners must be knowledgeable and respected individuals in the respective fields of research that has been selected as research topic and should have experience in assessment of postgraduate scientific theses. The examiners will be recommended by the Faculty HDC and appointed by the Institutional HDC in accordance with the regulations specified in the *Rules for Postgraduate Studies* of Part 1 of the NUST Yearbook and the NUST *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes.*

Transition Arrangements
This is a new programme and transition arrangements are therefore not applicable.

CURRICULUM

Course Code	Course Title	Prerequisite	NQF Level	NQF Credits
PSS101S	Thesis – Semester 1	None	10	360
PSS102S	Thesis – Semester 2	None		
PSS103S	Thesis – Semester 3	None		
PSS104S	Thesis – Semester 4	None		
PSS105S	Thesis – Semester 5	None		
PSS106S	Thesis – Semester 6	None		
PSS107X	Thesis- Extension			

CURRICULUM for Part-time mode

Course Code	Course Title	Prerequisite
PSS101P	Thesis – Part Semester 1	None
PSS102P	Thesis – Part Semester 2	None
PSS103P	Thesis – Part Semester 3	None
PSS104P	Thesis – Part Semester 4	None
PSS105P	Thesis – Part Semester 5	None
PSS106P	Thesis – Part Semester 6	None
PSS107P	Thesis – Part Semester 7	None
PSS108P	Thesis – Part Semester 8	None
PSS109P	Thesis – Part Semester 9	None
PSS110P	Thesis – Part Semester 10	None
PSS111P	Thesis – Part Semester 11	None
PSS112P	Thesis – Part Semester 12	None
PSS113X	Thesis- Part Extension	

DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES SCIENCES CODE 94

QUALIFICATIONS OFFERED

Bachelor of Agriculture Honours 08BAGH
Bachelor of Science in Agriculture Honours 07BSAH
Bachelor of Natural Resource Management Honours (Nature Conservation) (Phasing out 2020) O8BHNC
Master of Natural Resource Management 09MNRM
Master of Agribusiness Management (Phased in 2015) 09MAGM
Doctor of Philosophy in Natural Resource Sciences (Phasing out 2020) 10DNRS

AGRICULTURE PROGRAMMES

Definition

Agriculture is aimed at producing food, fuel, fibre and other products, through management of living organisms and the non-living resources that influence them. The most common form of agriculture in Namibia is livestock farming, to produce domestic animals, while arable agriculture produces crops, fruits and vegetables, and is limited to areas with better rainfall or where extra water is available for irrigation. Major challenges include the need to improve the efficiency of production, to exploit Namibia's comparative advantages, to meet the growing demands for food and to counter increasing urbanisation. One option is to produce a diversity of both animals and plants at a high rate in integrated biosystems, whereby they support each other and optimise use of scarce resources such as water. Other options include the integration of valuable living organisms into existing farming systems. In order to be sustainable, agriculture needs to be socially acceptable, it needs to produce in a way that supports ecological processes that it depends upon, it needs to earn more money than is spent on it and it should not be too risky. All these issues and many more are included in the agriculture program at the Namibia University of Science and Technology.

BACHELOR OF AGRICULTURE HONOURS 08BAGH
(with specialisation in Sustainable Agriculture or Agribusiness Management) (Revised Programme)

NQF Level: 8 **NQF Credits: 120** **NQF Qualification ID: Q0481**

Description

The Bachelor of Agriculture Honours is an initial postgraduate specialisation degree, designed for registration at NQF Level 8. The programme builds on the outcomes of the Bachelor of Agriculture and aims at consolidating and deepening the knowledge and skills of students in the main cognate area of learning, as well as developing their capacity to conduct supervised research of an applied nature. The programme is structured to facilitate specialisation in Sustainable Agriculture or Agribusiness Management.

Overall, the Bachelor of Agriculture Honours aims at:

- Producing graduates with extensive knowledge of the principles, theories, methodologies and problem solving techniques of the agriculture discipline;
- Providing students with deepened knowledge of advanced concepts and frameworks in agriculture and facilitate a high level of theoretical engagement;
- Capacitating students to conduct supervised research, including identification of a research question, development of rigorous and methodical approaches to the collection and maintenance of data and records, analysis and interpretation of results, and effective communication of research information in written and spoken English.
- Developing the critical thinking, analytical and problem-solving abilities and skills of students thereby enabling them to resolve complex problems in agricultural systems.
- Exposing students to relevant policy aspects and interventions in the global agricultural arena.

Admission Requirements

Candidates will be considered for admission to the Bachelor of Agriculture Honours if they have a Bachelor of Agriculture, or a Bachelor of Agricultural Management, from NUST and a minimum average of 60% in exit level courses. Alternatively, candidates should have an equivalent qualification at NQF level 7 from a recognised institution, worth at least 360 credits.

Holders of the University's National Diploma in Natural Resource Management (Agriculture) will be considered for admission to this programme provided they have an overall minimum average of 60%, and completed the following courses that form part of the Bachelor of Agriculture curriculum on a full-time basis:

- Animal Health,
- Basic Research Methodology,
- Food Science and Technology
- Rural Development Sociology
- Financial Management (Agriculture).

Candidates with equivalent qualifications from other recognised tertiary education institutions may be required to make up specific deficiencies as deemed necessary by the departmental selection panel. Candidates in this category must submit academic records for all courses in their previous qualifications, as well as contact details of two referees. The latter also applies to candidates who have been working in the field subsequent to obtaining their previous qualifications.

Articulation Arrangements
Transfer of credits will be dealt with according to the University's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification.

Graduates of the Bachelor of Agriculture Honours will be able to pursue further studies in Agriculture, or a similar/related cognate area of learning, at NQF level 9.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisite	NQF Level	NQF Credits
RME810S	Research Methodology	None	8	15
CAG810S	Contemporary Agribusiness Management	None	8	15
NRE821S	Natural Resource Economics	None	8	15
Plus ONE of the following Elective courses depending on specialisation (Dryland Permaculture Design for specialisation in Sustainable Agriculture and Applied Econometrics for Agriculture if specialisation is in Agribusiness Management)				
DPD810S	Dryland Permaculture Design	None	8	15
AEA810S	Applied Econometrics for Agriculture	None	8	15
Semester 2				
MAT820S	Mini-thesis	Research Methodology	8	30
Plus TWO of the following Elective courses depending on specialisation (Sustainable Animal Production Systems and Sustainable Plant Production Systems for specialisation in Sustainable Agriculture, and Agricultural Policies and Agricultural Trade Analysis for specialisation in Agribusiness Management):				
SAP820S	Sustainable Animal Production Systems	None	8	15
SPP820S	Sustainable Plant Production Systems	None	8	15
AGP820S	Agricultural Policies	None	8	15
ATA820S	Agricultural Trade Analysis	None	8	15

Special Arrangements

Teaching and Learning Strategies
Teaching and learning strategies are described in the syllabus outlines for the different courses. The requirements of the NQF underline the acquisition of cognitive skills and competencies exceeding the knowledge and understanding of subject specific knowledge items and professional/technical competencies. Thus, the qualification focuses on the engagement of students in an interactive learning process in order to provide for the development of generic cognitive and intellectual skills, key transferable skills, and, as the case may be, subject specific and/or professional/technical practical skills.

This learning process will be facilitated both in and outside the classroom, requiring specific tasks to be carried out by the student. This facilitation will make use of, ***inter alia***, practical projects, tutorials, case studies, problem based learning and individual and/or group work. The progress of learning embedded in such tasks will be monitored, recorded and assessed. Some courses will have contact hours which will occur during intensive workshops referred to as block sessions. These blocks will be offered 2 - 3 times during a semester, while learning will occur continuously through assignments between the blocks; preparation for tests

administered during the blocks; hands-on experiences; group work and oral presentations during each block. These blocks need not occur on-campus and could serve as “excursions” for those courses requiring practical experience on farms.

Assessment Strategies

In addition to the general requirements of Senate, the assessment of the student’s academic performance will be on the basis of employing assessment methodologies and strategies appropriate to the learning outcomes of the applicable course. All courses will be assessed using Diversified Continuous Assessment (CA) only. To obtain a final pass mark, a student must attain at least 50% in each course. Some courses will use open book tests which basically allow students access to their study materials at the discretion of the examiner. CA courses will be assessed according to the University’s continuous assessment policy. The assessments will be designed to ensure that the learning outcomes of a particular course are attained. The mini-thesis will be assessed in accordance with the University’s rules for studies at postgraduate level.

BACHELOR OF SCIENCE IN AGRICULTURE HONOURS **07BSAH**
(Revised Programme) (Phasing in 2020)

Description
The Bachelor of Science Honours in Agriculture (with specialisation in Agribusiness Management or Sustainable Agriculture) is a postgraduate specialisation degree, designed for registration at NQF level 8. The programme builds on the outcomes of the Bachelor of Science in Agriculture (with specialisation in Agribusiness Management or Sustainable Agriculture) and aims at consolidating and deepening the knowledge and skills of students in the main cognate area of learning, as well as developing their capacity to conduct supervised applied research.

Overall, the programme aims at:

- Producing graduates with extensive knowledge of the principles, theories, methodologies and problem-solving techniques of the agriculture discipline;
- Providing students with deepened knowledge of advanced concepts and frameworks in agriculture and facilitate a high level of theoretical engagement;
- Capacitating students to conduct supervised research, including identification of a research problem, development of rigorous and methodical approaches to the collection and management of data, analysis and interpretation of results, and effective communication of research findings;
- Developing the critical thinking, analytical and problem-solving abilities and skills of students thereby enabling them to resolve complex problems in agricultural systems; and
- Exposing students to relevant policy aspects and interventions in the global agricultural arena.

Criteria for Admission
Candidates will be considered for admission to the Bachelor of Science Honours in Agriculture if they have a Bachelor of Science in Agriculture, or a Bachelor of Agriculture, from the Namibia University of Science and Technology and a minimum average of 60% in exit level courses. Alternatively, candidates should have an equivalent qualification at NQF level 7 from a recognised institution, worth at least 360 credits.

Holders of National Diploma in Natural Resource Management (Agriculture) from the Polytechnic of Namibia (now NUST) will be considered for admission to this programme provided they have an overall minimum average of 60%, and completed the following courses that form part of the Bachelor of Science in Agriculture curriculum:
Animal Health

- Basic Research Methodology Food Science and Technology Rural Development Sociology
- Financial Management (Agriculture)

Candidates with equivalent qualifications from other recognised tertiary education institutions may be required to make up specific deficiencies as deemed necessary by the departmental postgraduate selection panel. These candidates must submit academic records for all courses in their previous qualifications, as well as contact details of two referees for the selection panel to assess the equivalency of the courses with those offered at NUST. Candidates who have been working in the field subsequent to obtaining their previous qualifications and who meet the requirements will be preferred over candidates with no work experience.

Articulation Arrangements
Transfer of credits will be dealt with according to the NUST's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification. Graduates of the Bachelor of Science Honours in Agriculture will be able to pursue further studies in Agriculture, or a similar/related cognate area of learning, at NQF level

Mode of Delivery
The programme will only be offered on full-time mode through block sessions in accordance with NUST rules and regulations.

Requirements for Qualification Award
This qualification will be awarded to students credited with a minimum of 120 credits (all at NQF Level 8), and who have met the administrative and financial requirements spelt out in Part 1 of the NUST Yearbook. Students are able to specialise in Agribusiness Management or Sustainable Agriculture and have to complete 2 compulsory courses (worth 30 credits), 4 strand compulsory courses per specialisation (worth 60 credits) and a mini-thesis (worth 30 credits).

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
RME810S	Research Methodology	None	8	15
APJ811S	Applied Project Management	None	8	15

Plus two of the following strand courses depending on specialisation

Sustainable Agriculture Strand:

DPD810S	Dryland Permaculture Design	None	8	15
ASS811S	Applied Statistics for Sustainable Agriculture	None	8	15

Agribusiness Management Strand:

AEA810S	Applied Econometric for Agriculture	None	8	15
APE811S	Applied Production Economics	None	8	15

Year 1
Semester 2

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
MAT820S	Mini-thesis	Research Methodology	8	30

Plus two of the following strand compulsory courses depending on specialisation undertaken in semester 1

Sustainable Agriculture Strand:

SAP820S	Sustainable Animal Production Systems	None	8	15
SPP820S	Sustainable Plant Production Systems	None	8	15

Agribusiness Management Strand:

AMA821S	Agribusiness Management Analysis	None	8	15
APA821S	Agricultural Policy Analysis	None	8	15

BACHELOR OF NATURAL RESOURCE MANAGEMENT HONOURS (NATURE CONSERVATION) (Phasing out 2020) **O8BHNC**

NQF Level: 8 **NQF Credits: 120** **NQF Qualification ID: Q0263**

Description

The Bachelor of Natural Resource Management Honours (Nature Conservation) focuses on the attributes that will equip candidates for supervisory/middle management and applied research positions in the field of Nature Conservation in Namibia specifically and more broadly within the SADC region. It includes relevant professional, managerial and research skills, based on needs identified in consultation with stakeholders in Nature Conservation. In particular, the programme concentrates on improved productivity and effective management of southern Africa's natural resources with the focus on conservation and sustainable utilisation. This will allow graduates to contribute towards the national economy of Namibia, or other countries where they may be employed. Graduates will typically be employed in positions such as Natural Resource Managers, Nature Conservationists, Environmental Co-ordinators, Junior Researchers and Professional Officers within the public and private sectors.

Admission Requirements

Candidates may be admitted to this programme if they have a Bachelor degree in Natural Resource Management (Nature Conservation), or an equivalent qualification at NQF Level 7, from a recognised institution, worth at least 360 credits, with an average of 60% in their major course, viz. Natural Resource Management 2. Exceptions may be approved by the Departmental Board, and all admissions are at the discretion of the Departmental Board.

Potential candidates with a three-year National Diploma in Natural Resource Management (Nature Conservation) will only be considered for admission to this programme provided that they obtained an overall average of 60% in their third year courses, and that they complete at least Natural Resource Management 2 or an equivalent course and any other course from the new Bachelor of Natural Resource Management deemed necessary by the Departmental Board, earning an average of 60% in such courses.

National Diploma holders who have been working in the industry may be exempted from the course(s) mentioned above, provided that they show competence in the field, based on a portfolio of relevant work undertaken, at an acceptable standard.

Applicants may be required to attend a pre-selection interview and/or test at the discretion of the Department.

Applicants from other institutions must submit academic records for all courses in their previous qualifications, as well as contact details of three referees. The latter also applies to applicants who have been working in the field subsequent to obtaining their previous qualifications.

Articulation Arrangements

The transfer of credits will be dealt with according to the University's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credits that can be granted are 50% of the credits for a qualification.

Graduates of this programme will be able to pursue further studies in Natural Resource Management (Nature Conservation), or a similar/related cognate area of learning, at NQF Level 9.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
CSB810S	Conservation Biology	None	8	15
RWM810S	Rangeland & Wildlife Management A	None	8	15
RMN810S	Research Methodology (Nature Conservation)	None	8	15
WWM810S	Water and Wetland Management	None	8	15
Semester 2				
CRM820S	Community Resource Management	None	8	15
RWM820S	Rangeland & Wildlife Management B	Rangeland & Wildlife Management A	8	15
MNT820S	Mini-thesis	Research Methodology (Nature Conservation)	8	30

Transition Arrangements
This is a new programme and transition arrangements are, therefore not applicable.

No B.Tech. courses will be credited towards the Honours degree and B. Tech. students cannot take courses from the new Honours programme as part of their B. Tech.

MASTER OF NATURAL RESOURCE MANAGEMENT (Revised) **09MNRM**

NQF Level 9 **NQF Credits 240** **NQF Qualification ID: Q0452**

Programme Aims/Purpose

The Master of Natural Resource Management is a research-based postgraduate degree designed for registration at NQF Level 9. The revised Master's degree is designed to develop students' scientific research skills in various areas of management of natural resources for the purpose of sustainable use. The programme further aims at equipping students with various methodological approaches, and develop competence in the application of qualitative, quantitative and mixed research methods through participation in research projects under the supervision of experienced staff members. The programme will provide a unique education and required knowledge to finding sustainable solutions for interdisciplinary challenges related to the management of natural resources. The research to be conducted will be applied in addressing practical problems related to Natural Resource Management in Namibia and beyond. The unique habitats and aridity of the Namibian environment also makes it necessary for specialised training and research informed and guided by local experts. This will lead to a better understanding of the Namibian environment and its biodiversity, which will allow managers in Natural Resource to manage the country's natural resources more effectively in terms of sustainable utilisation, with the emphasis on conservation as highlighted in NDP5. Graduates will be able to make meaningful contributions to the development of new knowledge/expertise in their areas of specialisation and to the socio-economic development of the country.

Criteria for Admission

Candidates who hold qualifications in Natural Resource Management or related cognate areas at NQF Level 8, or equivalent, from recognised institutions, may be considered for admission to this programme. Such qualifications must include a component of research methodology and supervised research.

Final selection will be based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will only become official when the proposal is approved by the Higher Degrees Committee of the Namibia University of Science and Technology. These procedures will be fully explained to each prospective student during his or her personal interview.

Articulation Arrangements

The Master of Natural Resource Management will ordinarily provide access to further studies in the same, or a related cognate area, at Doctoral degree level, i.e. NQF Level 10.

Mode of Delivery

This qualification will be delivered on a full-time and part-time basis, i.e. students are expected to conduct independent research complemented by contact sessions between the supervisor and student in accordance with a pre-agreed research plan.

Requirements for Qualification Award

This qualification will be awarded to candidates credited with a minimum of 240 credits (all at NQF Level 9). The thesis will represent the entire body of work to be assessed and must meet NUST's requirements as detailed in the rules for postgraduate studies. In addition, students should meet the administrative and financial requirements spelt out in Part 1 of the Namibia University of Science and Technology Yearbook.

Full-time students have a minimum of two years and a maximum period of four years to complete the programme. An appropriate extension can be arranged for part-time students. Students have to register each semester for this programme.

Teaching and learning strategies

The Higher Degrees Committee, on the recommendation of the programme coordinator/Head of Department, will appoint appropriate supervisors and/or co-supervisor(s) for each student.

Students will be required to work independently most of the time with minor intervention. Guidance and support will be provided by the supervisor through regular contact with the student (face-to-face communication) as well as through the use of relevant information and communication technologies. Academic support will essentially be provided in accordance with NUST's rules and procedures for postgraduate studies leading to the award of research degrees. Students will also

Assessment Strategies

In addition to the general requirements of Senate, candidates are required to submit a thesis for evaluation, which should comply with international academic standards. The thesis will be assessed by examiners, approved by Senate, upon recommendation of the Higher Degrees Committee. In addition, students will undergo an oral examination (i.e. viva voce) before submitting the final thesis in accordance with the rules for postgraduate studies at NUST.

Quality Assurance Arrangements

The examination will be done by qualified academics and practitioners with Doctoral degrees, or in special exceptions by Masters' holders with good publication records. The examiners must be recognised and respected individuals in the field with experience in assessment of postgraduate scientific reports or theses

Transition arrangements

This is a Master by research only; hence Transition arrangements are not applicable.

CURRICULUM

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
Semester 1-4				
09MNR	Thesis	None	9	240

MASTER OF AGRIBUSINESS MANAGEMENT **09MAGM**
(Phasing out in 2023)

NQF Level: 9 **NQF Credits: 240** **NQF Qualification ID: Q0482**

Description
The Master of Agribusiness Management is a postgraduate specialisation degree, designed for registration at NQF Level 9. This programme builds on the outcomes of the Bachelor of Agriculture Honours, and aims at addressing the need for high level specialists and managers who can provide practical solutions to agribusiness management related problems in Namibia and beyond, support government projects in agribusiness management and farmers embarking on commercial enterprises in new areas, and improve agricultural product quantity, quality, and access to markets. The theory provided through the coursework component will enable graduates to demonstrate mastery of theoretically sophisticated subject-matter of the management of agribusiness enterprises as individuals and as part of a team. Furthermore, the Master of Agribusiness Management is designed to enhance Namibia's capacity for applied research in the area of agribusiness management that will in turn lead to value-added economic activities.

Overall, the Master of Agribusiness Management aims at:

- Producing agribusiness experts with an appreciation for technological advancement and who are able to provide leadership in the workplace.
- Capacitating students to contribute to the creation of employment and improve food production.
- Providing students with skills to add value to primary products and services and effectively market these products either locally or internationally.
- Cultivating an applied industry focused mindset in students who will, through carrying out industry designed research, resolve specific and non-routine problems in agricultural systems.
- Providing students with advanced competencies in conducting independent research.

Admission Requirements
Candidates will be considered for admission to the Master of Agribusiness Management if they have a Bachelor of Agriculture Honours from the Namibia University of Science and Technology, or an equivalent qualification at NQF Level 8 from a recognised institution that includes a component of supervised research. Applicants need to provide evidence of having completed a course in Econometrics at NQF Level 8.

Holders of the University's Bachelor of Technology (Agricultural Management) with a minimum overall average of 60% will be admitted to the Master of Agribusiness Management programme, but will be required to complete the following courses at the Bachelor of Agriculture Honours level.

- Natural Resource Economics
- Agricultural Policies
- Agricultural Trade Analysis
- Applied Econometrics fsor Agriculture

Applicants from other recognised institutions must submit academic records for all courses in their highest qualifications, as well as contact details of two referees. The latter also applies to applicants who have been working in the field subsequent to obtaining their previous qualifications.

The final selection of candidates may be based on a personal interview with a departmental selection panel and/or a test.

Articulation Arrangements
Transfer of credits will be dealt with according to the University's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification.

Graduates of this programme will ordinarily be able to pursue further studies at NQF level 10 in Agribusiness Management, or a similar/related cognate area of learning.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisite	NQF Level	NQF Credit
ARM910S	Advanced Research Methodology	None	9	20
AMA910S	Agribusiness Management Analysis	None	9	20
PDE910S	Production Economics	None	9	20
Semester 2				
AAM920S	Advanced Agricultural Marketing and Price Analysis	None	9	20
ASM920S	Agricultural Supply Chain Management	None	9	20
PDP920S	Project Design, Planning and Management	None	9	20
Year 2				
Semesters 3 and 4				
MAT920S	Thesis	Advanced Research Methodology	9	120

Special Arrangements

Teaching and Learning Strategies
Teaching and learning strategies are described in the syllabus outlines for the different courses. The requirements of the NQF underline the acquisition of cognitive skills and competencies exceeding the knowledge and understanding of subject specific knowledge items and professional/technical competencies. Thus, the qualification focuses on the engagement of students in an interactive learning process in order to provide for the development of generic cognitive and intellectual skills, key transferable skills, and, as the case may be, subject specific and/or professional/technical practical skills.

This learning process will be facilitated both in and outside the classroom, requiring specific tasks to be carried out by the student. This facilitation will make use of, inter alia, practical projects, tutorials, case studies, problem based learning and individual and/or group work. The progress of learning embedded in such tasks will be monitored, recorded and assessed. Some courses will have contact hours which will occur during intensive workshops (referred hereto as block sessions). These blocks will be offered 2- 3 times over a semester, where learning will occur continuously through assignments between the blocks; preparation for tests administered during the blocks; hands-on experiences; group work and oral presentations during each block. These blocks need not occur on-campus and could serve as “excursions” for those courses requiring hands-on experience on farms.

Assessment Strategies
In addition to the general requirements of Senate, the assessment of the student’s academic performance will be on the basis of employing assessment methodologies and strategies appropriate to the learning outcomes of the applicable course. All the courses will be assessed using diversified Continuous Assessment (CA) only in accordance with the University’s general rules. To obtain a final pass mark a student must attain at least 50% in each course. Some courses will use open book tests which basically allow students access to their study materials at the discretion of the examiner. The assessments will be designed to ensure that the learning outcomes of a particular course are attained. The thesis will be assessed in accordance with the University’s rules on postgraduate studies

Transition Arrangements
This programme does not replace any existing programme or qualification and transition arrangements are, therefore, not applicable.

MASTER OF AGRIBUSINESS MANAGEMENT **09MAGB**
(Revised Programme)(Phased in 2020)

NQF Level: 9 **NQF Credits: 240** **NQF Qualification ID: Q0482**

Description
The Master of Agribusiness Management by research is a postgraduate degree designed for registration at NQF Level 9. The revised Master's degree is designed to develop students' scientific research skills in various areas of agribusiness management. The programme further aims at equipping students with various methodological approaches, and develop competence in the application of qualitative, quantitative and mixed research methods through participation in research projects under the supervision of experienced staff members. The programme will provide a unique education and required knowledge to finding sustainable solutions to interdisciplinary challenges related to the management of agribusinesses. The research will be of applied nature and aimed at addressing the practical problems related to Agribusiness Management in Namibia and beyond. Such research will lead to a better understanding of the Namibian agribusiness environment, which will allow managers in agribusiness to manage the country's agricultural enterprises more effectively in terms of sustainability, with the emphasis on NDP5. Graduates will be able to make meaningful contributions to the development of new knowledge/expertise in their areas of specialisation and to the socio-economic development of the country.

Criteria for Admission
Candidates, who hold Bachelor of Science Honours in Agriculture or related cognate areas at NQF Level 8, or equivalent qualification, from recognised institutions, may be considered for admission into this programme. Such qualifications must include a component of supervised research.

Final selection will be based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will only become official, upon by the Higher Degrees Committee of the Namibia University of Science and Technology. These procedures will be fully explained to each prospective student during his or her personal interview.

Articulation Arrangements
The Master of Agribusiness Management will ordinarily provide access to further studies in the same, or a related cognate area, at Doctoral degree level, i.e. NQF Level 10.

Mode of Delivery
This programme will be delivered on a full-time and part-time basis, i.e. students are expected to conduct independent research complemented by block sessions between the supervisor and student in accordance with a pre-agreed research plan.

Requirements for Qualification Award
This qualification will be awarded to candidates credited with a minimum of 240 credits (all at NQF Level 9). The thesis will represent the entire body of work to be assessed, and must meet NUST's requirements as detailed in the rules for postgraduate studies. In addition, students should meet the administrative and financial requirements spelt out in Part 1 of the Namibia University of Science and Technology Yearbook.

Teaching and learning strategies
The Higher Degrees Committee, on the recommendation of the programme coordinator/Head of Department, will appoint appropriate supervisors and/or co-supervisor(s) for each student.

Students will be required to work independently most of the time with minor intervention. Guidance and support will be provided by the supervisor through regular contact with the student (face-to-face communication) as well as using relevant information and communication technologies. Academic support will essentially be provided in accordance with NUST's rules and procedures for postgraduate studies leading to the award of research degrees. Students will also be required to provide regular progress reports for assessment.

Assessment strategies
In addition to the general requirements of Senate, candidates are required to submit a thesis for evaluation, which should comply with international academic standards. The thesis will be assessed by examiners, approved by Senate, upon recommendation of the Higher Degrees Committee. In addition, students will undergo an oral examination (i.e. viva voce) before submitting the final thesis in accordance with the rules for postgraduate studies at NUST.

Quality Assurance requirements
The examination will be done by qualified academics and practitioners with Doctoral degrees, or in special exceptions by Masters' holders with good publication records. The examiners must be recognised and respected individuals in the field with experience in assessment of postgraduate scientific reports or theses. Continuous monitoring of progress of students will be according to the methods of learning described in the syllabus outlined below.

Transition Arrangements

There are significant changes to this programme, thus the Master of Agribusiness Management by coursework and Thesis (old curriculum) will be phased out systematically until 2023 with no disruption to existing students' learning progression. The last intake for the Master of Agribusiness Management by coursework and Thesis (old curriculum) was in 2019. The Master of Agribusiness Management by research will take effect from January 2020. Students who are registered on the out-phasing programme (old curriculum), and who fail more than 50% of the courses at the end of 2019, will be given an option to transition to the revised curriculum. These students, however, will lose credits.

CURRICULUM

Year 1
Semester 1-4

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
	Thesis	None	9	240

DOCTOR OF PHILOSOPHY IN NATURAL RESOURCE SCIENCES **10DNRS**

NQF Level: 10 **NQF Credits: 360** **NQF Qualification ID: Q0973**

Description

The Doctor of Philosophy (PhD) in Natural Resource Science aimed at equipping students with deepened knowledge and research skills in their specialisation area by creating new knowledge that will bring solutions and implement new ideas to the Natural Resource Science. The degree focuses on the broad, deepening and research-based learning in the area of Natural Resource Science. The qualification will enable students to develop a thorough understanding of relevant methodological approaches, and develop competence through participation in research projects under the supervision of experienced staff members. In addition, students are required to investigate, design, and conduct independent research, with focus on special research questions, apply advanced methods and techniques and/or deal with a sophisticated application problem connected with the topic of interest.

The development of research competence has prime priority in the context of this PhD programme. Thus, the research output, in the form of a thesis, must contribute meaningfully and substantially to the existing body of knowledge in the field/area of specialisation through comprehension, application, analysis, synthesis and evaluation of existing knowledge. The qualification aims at producing high-calibre scientific researchers in various specialisation areas related to Agriculture and Natural Resources. The development of this PhD is prominent to the research agenda of the institution in future as it will address the national need for research capacity in the field of Natural Resource Science and related cognate areas. Furthermore, this qualification will address the internal need for qualified academics with a PhD, as this would become the new benchmark qualification for academic staff in the context at the University. The PhD in Natural Resource Science is a terminal qualification, hence no articulation arrangements are proposed.

Criteria for Admission

Applicants who hold qualifications from recognised institutions at NQF level 9 in Natural Resource Science related subjects and/or related cognate areas can be considered for admission to this programme. Applicants need to provide evidence of having conducted supervised research at master degree level. In addition, applicants will be requested to attend a pre-selection interview at the discretion of the Faculty of Natural Resources and Spatial Sciences (FNRSS). The applicants may be requested to make up specific deficiencies at the discretion of the Dean, through the respective Head of Departments. Apart from the applicant's qualification, the admission of an applicant will also depend on the availability of a qualified and competent supervisor for the planned topic and the available staff resources of the affected department(s).

The Postgraduate Studies Committee (PGSC) will approve the final selection and admission of the selected candidates in accordance with the regulations as specified by Rules for Postgraduate Studies of the NUST Yearbook (Volume 1). Hence, registration prior to the approval of a research proposal is provisional and will be made official only after the Postgraduate Studies Committee approves the proposal. These procedures will be fully explained to each prospective student during his or her personal interview. Additional information is given in the Guidelines for the Supervision and Examination of Masters and Doctoral Programmes.

Articulation Arrangements

The PhD in Natural Resource Science is a terminal qualification, hence no articulation arrangements are proposed.

Mode of Delivery

The qualification will be delivered on a full-time or part-time basis in accordance with the NUST ***Rules for Postgraduate Studies***. Students may interchange between full and part-time according to the speed of their progress. The whole programme is comprised of semester courses, each of which needs to be registered for in succession. Students may also opt to skip one semester, provided that the supervisor is informed and provides no service to the student for that semester. If the student skips more than one semester, then a form for resumption of studies will need to be submitted upon re-registration within three years of first registration. If this period is exceeded without registration and the former student wishes to continue with the PhD programme, then a new application would need to be submitted from scratch. If a concept paper or research proposal is rejected by HDC without the option of improving it, then the student will not be permitted to register for the following course in the programme. Students who exceed the minimum registration period for the relevant mode of study will be registered for the Thesis Extension course in the subsequent semesters, until such time as they complete or reach the maximum study period. Additional information is given in the ***Guidelines for the Supervision and Examination of Masters and Doctoral Programmes.***

Requirements for Qualification Award

This qualification will be awarded to candidates credited with a minimum of 360 credits (all at NQF Level 10). The thesis will represent the entire body of work to be assessed and must meet the NUST requirements as detailed in the Rules for Postgraduate Studies and the Guidelines for the Implementation of Master and Doctoral Programmes. In addition, students should meet the administrative and financial requirements as spelt out in Part 1 of the NUST Yearbook.

Students who register for the full-time option every semester would be expected to complete the programme within six semesters, but may be permitted to extend to a maximum of 10 semesters while registering and paying for additional semester courses. Students who register for the part-time option every semester would be expected to complete the programme within 12 semesters, but may be permitted to extend to a maximum of 16 semesters while registering and paying for additional semester courses.

Students who opt for a combination of full and part-time registrations, will be permitted extra semesters in proportion to the number of semesters they registered under each option.

Teaching and Learning Strategies

The Higher Degrees Committee will appoint supervisor(s) and / or co-supervisor(s) for each student. Students will be required to work independently in accordance with a pre-agreed research plan that has to be submitted according to the time-frame as specified by *the Rules for Postgraduate Studies* of the NUST Yearbook (Part 1) and the *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes.* Students will be supervised, guided and supported through regular contact sessions using all available means during which study planning, progress, and other relevant topics are discussed.

Depending on the subject matter background and the qualification and experience of the PhD student in general and on the proposed topic in particular, the supervisor may prescribe the attendance of one or more courses to address any identified technical, methodical and subject matter deficiencies of the student. Such course work may be done within existing NUST programmes or at another recognised institution in Namibia or abroad. The course fees for such courses are covered by the student fees for the PhD programme, if courses within the framework of existing NUST programmes are being used for this purpose.

Academic support will be provided in accordance with the NUST *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes, the Rules for Postgraduate Studies* of Part 1 of the NUST Yearbook and other rules and procedures for postgraduate studies leading to the award of research degrees. The possibility to gain international experience by participating in international conferences will be promoted. Candidates are encouraged to pursue part of their research within industry in Namibia, or at other recognised and established tertiary institutions abroad.

Any other special arrangements will be done in accordance with the NUST *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes,* and the *Rules for Postgraduate Studies* of Part 1 of the NUST Yearbook.

Assessment Strategies

Students are required to submit a research proposal for approval by Higher Degrees Committee (HDC), in accordance with the details as specified in the *Rules for Postgraduate Studies* of Part 1 of the NUST Yearbook and the NUST *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes.*

In compliance with the general requirements of Senate, students are required to submit a thesis for evaluation, which should comply with international academic standards. The thesis requires students to work independently and to investigate their own individual research topic. Students are required to cultivate a professional work ethic to deliver the combination of research, analysis, communication and presentation demanded by their thesis. The thesis will be assessed in accordance with the *Rules for Postgraduate Studies* of Part 1 of the NUST Yearbook and the NUST *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes.*

Students will present and defend their thesis before an appropriately constituted panel in accordance with these regulations for postgraduate studies. The thesis will be returned to the students for correction before final binding and archiving. The doctoral certificate will only be released after correction of the thesis.

Any other special arrangements will be done in accordance with the *Rules for Postgraduate Studies* of Part 1 of the NUST Yearbook and the NUST *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes.*

Quality Assurance Arrangements

Qualified academics and practitioners with Doctoral Degrees will assess the thesis. The examiners must be knowledgeable and respected individuals in the respective fields of research that has been selected as research topic and should have experience in assessment of postgraduate scientific theses. The examiners will be recommended by the Faculty HDC and appointed by the Institutional HDC in accordance with the regulations specified in the *Rules for Postgraduate Studies* of Part 1 of the NUST Yearbook and the NUST *Guidelines for the Supervision and Examination of Masters and Doctoral Programmes.*

Transition Arrangements

This is a new programme and transition arrangements are therefore not applicable.

CURRICULUM

Course Code	Course Title	Prerequisite	NQF Level	NQF Credits
NRS101S	Thesis – Semester 1	None	10	360
NRS102S	Thesis – Semester 2	None		
NRS103S	Thesis – Semester 3	None		
NRS104S	Thesis – Semester 4	None		
NRS105S	Thesis – Semester 5	None		
NRS106S	Thesis – Semester 6	None		

CURRICULUM for Part-time mode

Course Code	Course Title	Prerequisite
NRS101P	Thesis – Part Semester 1	None
NRS102P	Thesis – Part Semester 2	None
NRS103P	Thesis – Part Semester 3	None
NRS104P	Thesis – Part Semester 4	None
NRS105P	Thesis – Part Semester 5	None
NRS106P	Thesis – Part Semester 6	None
NRS107P	Thesis – Part Semester 7	None
NRS108P	Thesis – Part Semester 8	None
NRS109P	Thesis – Part Semester 9	None
NRS110P	Thesis – Part Semester 10	None
NRS111P	Thesis – Part Semester 11	None
NRS112P	Thesis – Part Semester 12	None
NRS113X	Thesis - Part Extension	

DEPARTMENT OF LAND AND PROPERTY SCIENCES Code 93

QUALIFICATIONS OFFERED

BACHELOR OF LAND ADMINISTRATION HONOURS (Revised) (Phased in 2020) 08BHLA

Description

The Bachelor of Land Administration Honours is an initial postgraduate specialisation degree that links the undergraduate Bachelor degree with studies at level 9. The Bachelor Honours degree builds on the outcomes of a Bachelor degree in the same subject area or career-focused cognate area of learning. The programme aims at consolidating and deepening the knowledge and skills of students in land administration, as well as developing their capacity to conduct research of an applied nature.

Namibia has developed a number of national plans to achieve the goals set in the Namibian Vision 2030. The country has also committed to work towards the achievement of the Sustainable Development Goals (SDGs) by 2030. Following Independence a number of land recording projects were initiated to provide tenure security, housing and basic services. However, the projects have largely fallen short of achieving the goals due to slow or poor implementation progress. Achieving national goals as well as international commitments calls for enhanced provision of tenure security for further development of the country to avoid civil unrest due to unequal and unfair distribution of land rights. This calls for much enhanced programme implementation and governance to improve the success rate. It also requires a review of current land policies and that urban land issues are paid particular attention. Those challenges are sought to be addressed in the courses offered as part of the Bachelor of Land Administration Honours programme.

The elective courses offered as part of the Bachelor of Land Administration Honours programme are highly relevant to the global agenda and are closely linked to the field of land administration. With the above described issues on weak programme implementation in mind the Bachelor of Land Administration Honours programme therefore offers an elective course on advanced project management for students interested in strengthening their skills in project management.

The programme is purposefully designed to equip the students with the requisite tools, subject methods and a deepened theoretical grounding in the theories of land administration. Students will be capacitated to independently identify, formulate, and solve complex problems within the subject area and its relevant components.

Overall, the programme places specific emphasis on the competencies and attributes that will enable students to assume a career path as advisors for land administration projects, in supervisory/middle management and applied research positions in government (national, regional and local level), and other organisations, including within the SADC region. On completion of this programme, graduates will be able to apply integrated land administration and management approaches in both public and private sectors i.e. Ministry of Land Reform, Ministry of Urban and Rural Development and various local government authorities and NGOs.

Criteria for Admission

To be admitted to the Bachelor of Land Administration Honours programme candidates should have a Bachelor of Land Administration at NQF level 7, worth at least 360 credits from the Namibia University of Science and Technology. Alternatively, candidates should have a Bachelor degree in a cognate area from Namibia University of Science and Technology or from another recognised higher learning institution. If admitted such applicants will be required to register for Land Administration Theory and Practice (formerly Land Administration) course in addition to courses in the Bachelor of Land Administration Honours curriculum in order to make-up for the deficiency in their undergraduate programme. Candidates with a foreign bachelor degree in Land Administration or another cognate area may also be considered for admission. All decisions about admission of candidates is at the discretion of the Head of Department of Land and Property Sciences.

At the discretion of the Head of Department of Land and Property Sciences candidates can be required to conduct an admission assessment prior to the final selection and admission to the programme.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
LAU811S	Land Administration and Urban Development	None	8	15
RMD811S	Research Methodology	None	8	15
LPD811S	Land Policy and Development	None	8	15
Plus one of the following elective courses:				
APM811S	Advanced Project Management	None	8	15
CRM820S	Community Resource Management	None	8	15
EIR820S	Environmental Issues in Regional and Rural Development	None	8	15
Semester 2				
EOI821S	Emerging and Open Issues in Land Administration	None	8	15
MTH821S	Mini-thesis	Research Methodology	8	45

Assessment strategies

In addition to the general requirements of Senate, the assessment of the student's academic performance will be on the basis of employing assessment methodologies and strategies appropriate to the learning outcomes of the applicable course. Students will be assessed using diversified continuous assessment methods only. To promote mastery learning, the use of formative assessment will also form an integral part of learning. The assessments will focus on the achievement of qualification outcomes and take the form of problem solving exercises, individual and/or group assignments and presentations, case studies, report and essay writing, application of theories and methods. The use of validating end of term assessments will be minimised in order to free students' intellectual capacity for broader cognitive development. In accordance with Namibia University of Science and Technology's policy on diversified continuous assessment, each course will have a minimum of four assessment events. All courses require a final mark of at least 50% to pass. The mini-thesis will be assessed according to the Namibia University of Science and Technology's rules for studies at postgraduate level.

Quality Assurance requirements

Each course will have one or more examiners and one moderator. Moderators will be identified externally and approved by the Board of Studies. The required minimum qualification of the moderator will be at least a Master's degree in Land Administration, or a related field of study, or the person must be a knowledgeable and acknowledged specialist in his/her field. External moderators will also moderate oral examinations and the mini-thesis. This ensures quality and equity of assessments and the qualification as a whole. The mini-thesis will be moderated in accordance with the Namibia University of Science and Technology rules for postgraduate studies.

Transition Arrangements

The revised Bachelor of Land Administration Honours programme will be implemented in the academic year 2020 and will be effective for all students registered in the old as well as in the new programme. The old Bachelor of Land Administration Honours programme curriculum will be offered for the last time in 2019, after which all students will be required to transition to the new programme.

NUST students admitted into and pursuing the old Bachelor of Land Administration Honours will, by the implementation of the revised programme in 2020, be transferred to the new Bachelor Honours programme. Courses completed under the old Bachelor of Land Administration Honours programme will be credited, but students will be required to complete all outstanding courses as per the requirements of the revised curriculum. Students will be credited for courses completed in the old curriculum as per Table 15.1 next page. For outstanding courses students have to do equivalent courses as per Table 15.2 next page.

Table 15.1 Courses to be credited

Bachelor of Land Administration Honours (Old Courses)		**Bachelor of Land Administration Honours (Equivalent New/ revised Courses)**	
Course Code	**Course Title**	**Course code**	**Course Title**
LAU811S	Land Administration and Urban Development	LAU811S	Land Administration and Urban Development
RMD811S	Research Methodology	RMD811S	Research Methodology
LPD811S	Land Policy and Development	LPD811S	Land Policy and Development
EOI821S	Emerging and Open Issues in Land Administration	EOI821S	Emerging and Open Issues in Land Administration
MTH821S	Mini-thesis	MTH821S	Mini-thesis

Table 15.2 Corresponding Courses (if Failed). This is not a credit table

Bachelor of Land Administration Honours (Old Courses)		**Bachelor of Land Administration Honours (New/revised Corresponding Courses)**	
Course Code	**Course Title**	**Course code**	**Course Title**
LAU811S	Land Administration and Urban Development	LAU811S	Land Administration and Urban Development
RMD811S	Research Methodology	RMD811S	Research Methodology
LPD811S	Land Policy and Development	LPD811S	Land Policy and Development
EOI821S	Emerging and Open Issues in Land Administration	EOI821S	Emerging and Open Issues in Land Administration
MTH821S	Mini-thesis	MTH821S	Mini-thesis

Please Note:
Table 15.2 above highlights core courses in the Bachelor of Land Administration Honours programme that should be done if courses are failed. Elective courses from other Faculties and Departments are excluded, but the rules of relevant Faculties and Departments apply to this programme as well. The courses in the Bachelor of Land Administration Honours (old programme) are basically the same as the courses in the new revised Bachelor of Land Administration Honours, hence all compulsory courses in the old curriculum have corresponding courses in the revised curriculum.

BACHELOR OF LAND ADMINISTRATION HONOURS (Revised) (Phased in 2020) **08BLAH**

NQF Level: 8 **NQF Credits: 120** **NQF Qualifications ID: Q0582**

Description

The Bachelor of Land Administration Honours is a postgraduate specialisation degree that links the undergraduate Bachelor degree with studies at Level 9. The Bachelor Honours degree builds on the outcomes of a Bachelor degree in the same subject area or career-focused cognate area of learning. The programme aims at consolidating and deepening the knowledge and skills of students in the main cognate area of learning, as well as developing their capacity to conduct research of an applied nature. The programme is purposefully designed to equip the students with the requisite tools, subject methods and a deepened theoretical grounding in the theories of land administration. Students will be capacitated to independently identify, formulate, and solve complex problems within the subject area and its relevant components.

Overall, the programme places specific emphasis on the competencies and attributes that will enable students to assume supervisory/ middle management and applied research positions in government, or other organisations, including within the SADC region. On completion of this programme, land administration graduates will be able to apply integrated land administration and management approaches in both public and private sectors i.e. Ministry of Land Reform, and various local government authorities and NGOs.

Admission Requirements

Applicants to the Bachelor of Land Administration Honours programme require a Bachelor in Land Administration at NQF Level 7, worth at least 360 credits from the Polytechnic of Namibia/Namibia University of Science and Technology. Alternatively, candidates should have an equivalent qualification from a recognised institution and upon application to the Head of Department, might be admitted after a specific academic assessment if the applicant is deemed to have comparable educational prerequisites. The University can stipulate requirements concerning the conduct of additional exams prior to the start of study.

Articulation Arrangements

The transfer of credits will be dealt with according to the University's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credits that can be granted are 50% of the credits for a qualification.

Graduates from this programme will ordinarily be able to pursue further studies in Land Administration, or a similar/related cognate area of learning, at NQF level 9.

Mode of Delivery

The programme will only be offered on a full-time mode of study in accordance with the University's rules and regulations.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
LAU811S	Land Administration and Urban Development	None	8	15
RMD811S	Research Methodology	None	8	15
LPD811S	Land Policy and Development	None	8	15
Plus one of the following elective courses:				
PFN810S	Property Finance 2	None	8	15
PPI820S	Property Investment	None	8	15
APM811S	Advanced Project Management Development	None	8	15
Semester 2				
EOI821S	Emerging and Open Issues in Land Administration	None	8	15
MTH821S	Mini-thesis		8	45
Electives- if none selected in semester 1:				
CRM820S	Community Resource Management	None	8	15
EIR820S	Environmental Issues in Regional and Rural	None	8	15

BACHELOR OF PROPERTY STUDIES HONOURS **27BPRS**
(Phasing out from 2017 until 2021)

NQF Level: 8 **NQF Credits: 509** **NQF Qualification ID: Q0156**

Admission Requirements
The applicant must have passed Grade 12 and must meet the general University's admission requirements of at least 30 aggregate points over five subjects and comply with the following additional requirements:

- Must have obtained good passes in English and Mathematics (with minimum D symbols or better) at NSSC (Ordinary) level or IGCSE or Equivalent.
- A pass in Geography (with minimum D symbol or better) is highly recommended.
- Proof of competence in basic computer usage (for exemption from taking Computer User Skills).

Applicants with foreign qualifications may be considered for admission.

Candidates with the National Diploma in Land Valuation and Estate Management from the University with an overall average of at least 60% (Category A) may apply for admission into the Bachelor of Property Studies Honours and may be admitted into the Bachelor of Property Studies Honours programme at the discretion of the Department. This category of applicants will be required to join the Bachelor of Properties Studies Honours in Year 3, Semester 6.

These applicants, if admitted, will qualify to be awarded the Bachelor of Property Studies Honours after successful completion of the following courses:

- Building Economics
- Facilities Management
- Computer Applications to Real Estate
- Property Investment
- Valuation Casework
- Valuation 3
- Research Methodology
- Property Finance 2
- Land Administration
- Project Planning & Management
- Real Estate Practice 2
- In-Service Training
- Research Project

University students admitted into and pursuing the Diploma in Property Studies (Category B) may apply for the Bachelor of Property Studies Honours programme after the first year. Such student(s) must score at least CREDIT (60%) in Valuation 1 (VAL520S), Property Development and Marketing 1 (PDM520S) and Building Construction and Services (BCS520S). Courses completed under the Diploma will be credited, but students will be required to complete all outstanding courses as per the requirements of the Bachelor of Property Studies Honours programme. However, acceptance of these applicants into the Bachelor of Honours degree programme would be considered on a case by case basis on the recommendation of the Head of Department in consultation with the Registrar.

Applicants with Diploma qualification in Property Studies from the Polytechnic/NUST or equivalent qualifications from recognised institutions (Category C) may apply for admission into the Bachelor of Property Studies programme. Courses completed under the Diploma qualification will be credited, but students will be required to complete all outstanding courses as per the requirements of the Bachelor of Property Studies programme. In this regard, acceptance of applicants into the Bachelor degree programme would be considered on a case by case basis on the recommendation of the Head of Department in consultation with the Registrar.

Progression Rule
NB- Participants in Category B who meet the progression requirement and thus become eligible for the Bachelor of Property Studies Honours will be required to notify the Faculty Officer in writing by completing the relevant application form for the progression to be formalised.

Credit Recognition
Credit will be granted for courses completed under the National Diploma in Land Valuation and Estate Management as in the Credit table.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
CUS411S	Computer User Skills	None	4	10
MMS410S	Mathematics & Statistics	None	4	12
EPR511S	English in Practice	Language in Practice/ Principles of English Language Use	5	NCB
PMI511S	Principles of Microeconomics	None	5	12
IGD411S	Introduction to Geospatial Data	None	4	NCB

Semester 2

BCS520S	Building Construction & Services	None	5	12
VAL520S	Valuation 1	Principles of Microeconomics & Mathematics and Statistics	5	12
ISM520S	Introduction to Survey and Mapping	Introduction to Geospatial Data	5	12
PDM520S	Property Development & Marketing 1	None	5	12
LEC520S	Land Economics	Principles of Microeconomics	5	12

Year 2
Semester 3

PPM610S	Property Management	Building Construction & Services	6	12
CML111S	Commercial Law 1A	None	5	12
GES512S	Geographic Information Systems 1	Computer User Skills and intro. to Geo-Spatial Data	5	12
VAL610S	Valuation 2	Valuation 1	6	12
ILP510S	Introduction to Land Use Planning and Management	None	5	10

Semester 4

PFN620S	Property Finance 1	None	6	12
LTS520S	Land Tenure Systems	None	5	14
PMA512S	Principles of Macroeconomics	None	5	12
IDB220S	Introduction to Databases 1B	Computer User Skills	5	12
LLA520S	Law for Land Administration 1	Commercial Law 1A	5	12

Year 3
Semester 5
Compulsory Courses

BAC1100	Business Accounting 1A	None	5	12
PDM610S	Property Development & Marketing 2	Property Development & Marketing 1	6	12
LTX520S	Land Taxation	None	5	12
LIS611S	Land Information Systems	Geographic Information Systems 1 & Introduction to Databases 1B	6	12

Plus any ONE of the following courses:

OMP510S	Organisational Management and Practice	None	5	12
ICE712S	Innovation, Creativity and Entrepreneurship	None	6	12

Semester 6

BEC620S	Building Economics	Principles of Microeconomics & Building Construction & Services	6	12
FCM820S	Facilities Management	Property Management	8	12
CAR720S	Computer Applications to Real Estate	Geographic Information Systems 1 & Land Information Systems	7	12
PPI820S	Property Investment	Property Finance 1	8	12
VAC520S	Valuation Casework	Valuation 2 & Building Construction and Services	5	12
UBE510S	Urban Economics	Principles of Microeconomics	5	12

Year 4

Semester 7

VAL810S	Valuation 3	Valuation 2	8	12
RME410S	Research Methodology	None	6	10
PFN810S	Property Finance 2	Property Finance 1	8	12
LAD710S	Land Administration	Land Tenure Systems	7	10
PPM411S	Project Planning & Management	None	7	12
REP810S	Real Estate Practice 2	Facilities Management, Co-requisite: Property Finance 2 & Valuation 3	8	36

Semester 8

ISB720S	In-Service Training (7 weeks)	Co-requisite: Research Project	7	21
RPB820S	Research Project (8 weeks)	Real Estate Practice 2	8	36
EAP511S	English for Academic Purposes	English in Practice	5	14

DEPARTMENT OF GEO-SPATIAL SCIENCES & TECHNOLOGY Code 92

QUALIFICATIONS OFFERED

Bachelor of Geomatics Honours (Revised Programme- Phased in 2020) 08GEOH
Bachelor of Geomatics Honours (Old Curriculum- Phasing out until 2022).....08BGEH
Bachelor of Geoinformation Technology Honours (Phased in 2019) 08HBGI
Master Geoinformation Science and Earth Observation 09MGEO

BACHELOR OF GEOMATICS HONOURS 08GEOH
(Revised Programme – Phased in 2020)

Description

The main aim of the Bachelor of Geomatics Honours programme is to equip graduates with high level knowledge and skills in the acquisition, processing, presentation, and management of geospatial data. Graduates from this programme will be eligible to apply for registration as professional land surveyors, subject to conditions as prescribed by the Namibian Council for Professional Land Surveyors, Technical Surveyors and Survey Technicians (SURCON).

Upon completion of the Bachelor of Geomatics Honours programme, graduates should be able to:

- Perform advanced surveying and mapping operations, using a wide variety of equipment, software and techniques, under a wide variety of conditions;
- Apply analytical, critical and problem solving skills to acquire, process, analyse and present survey data;
- Resolve complex boundary issues and disputes using advanced cadastral surveying principles and methods;
- Produce professional survey diagrams, plans and maps (cadastral and topographic);
- Use and develop software applications for the processing and analysis of survey observations and coordinates;
- Plan and execute research of an applied nature requiring a wide range of advanced surveying and analysis techniques;
- Manage the effective and efficient acquisition, processing, presentation and maintenance of spatial data;
- Perform and manage advanced Global Navigation Satellite System (GNSS) and Geodetic Control surveys;
- Present and communicate academic or professional work effectively, catering for a wide range of audiences and/or in diverse genres.

Admission Requirements

In order to be admitted to this programme, applicants must have a Bachelor of Geomatics degree from NUST, or an equivalent qualification from a recognised institution, with an average mark of at least 60% for the following (or equivalent) courses: Engineering Mathematics 2, Surveying 4, Geodesy, and Geographic Information System 3.

Applicants from other institutions must submit detailed information on all courses in their previous qualifications, as well as contact details of three referees. The latter also applies to applicants who have been working in the geomatics field subsequent to obtaining their previous qualifications.

Holders of a Bachelor of Science in Geomatics from the Polytechnic of Namibia may be admitted into this Honours programme but will have to pass the additional course Engineering Mathematics 2 before they can register for the Honours programme.

Holders of the old NUST Bachelor of Geomatics (phasing out end of 2022), Bachelor of Science in Geomatics, or equivalent qualification from other recognised institutions that did not include Geodesy as a course at an undergraduate level, may be admitted into this programme. Applicants in these categories will be required to register for the out-phasing Geodetic Surveying (GDS811S) course instead of Environmental Remote Sensing (ERS810S), if they wish to be eligible for registration with SURCON as Professional Land Surveyor on successful completion of the Honours programme.

Applicants may be required to pass a pre-selection interview and/or test at the discretion of the Department. All admissions are at the discretion of the Department. Exceptions may be approved by the Department.

Mode of Delivery

The programme will be delivered in full-time mode, with diverse teaching modes over a period of one or two years, depending on the number of students registered for the respective courses, in accordance with the University's rules and regulations.

Requirements for Qualification Award

The Bachelor of Geomatics Honours will be awarded to students credited with a minimum of 120 NQF credits all at NQF Level 8. Students are required to complete five compulsory courses (worth 75 credits), and a thesis (worth 45 credits). In addition, students should meet the administrative and financial requirements spelled out in Part 1 of the Namibia University of Science and Technology Yearbook.

CURRICULUM

Semester 1:

Course Code	Course Title	Pre-requisite	NQF Level	NQF Credits
ACS811S	Advanced Cadastral Surveying	None	8	15
AGT811S	Advanced Geodesy and Adjustment Theory	None	8	15
ERS810S	Environmental Remote Sensing	None	8	15
RMG810S	Research Methodology (Geoinformatics)	None	8	15
GSV820S	Geodata Science and Visualisation	None	8	15

Semester 2:

Course Code	Course Title	Pre-requisite	NQF Level	NQF Credits
MTG821S	Mini-thesis	Research Methodology, Geoinformatics, Geodetic Surveying, Geomatics Programming	8	45

Transition Arrangements:

The revised Bachelor of Geomatics Honours programme will be implemented as from January 2020. The last intake of new students on the old curriculum was therefore January 2019. Existing Bachelor of Geomatics Honours students who registered for the old programme in 2019 or earlier, will be allowed to transfer to the new programme or complete the old programme, subject to the following transition arrangements:

- Students who fail any of the courses of the out-phasing programme (old curriculum), will be required to repeat such failed courses based on the revised syllabi or corresponding courses in accordance with the credit table below.
- Students who transfer to the new programme will be granted credits for the equivalent courses passed on the old programme.
- The old Bachelor of Geomatics Honours course Geodetic Surveying has essentially been moved to the revised Bachelor of Geomatics programme, and renamed Geodesy (12 credits at NQF Level 7). The revised Honours and old Bachelor programmes therefore do not contain geodesy as a course. Candidates admitted to the revised Bachelor of Geomatics Honours programme with an old NUST Bachelor of Geomatics, Bachelor of Science in Geomatics, or equivalent qualification which did not include a course in geodesy, may be allowed to do the course Geodetic Surveying (GDS811S) instead of Environmental Remote Sensing, in order for the combined qualification (Bachelor plus Honours) to be recognised by SURCON for registration as Professional Land Surveyor. The course Geodetic Surveying will continue to be offered for this purpose until 2022. As from 2023, students may be allowed to register for Geodetic Surveying, but will be accommodated in the Geodesy (NQF Level 7) classes, with additional teaching and assessments at NQF Level 8 and will be granted credit for Geodetic Surveying upon successful completion of the Geodesy course.

Credit Table – Reflecting which Old Courses grant credit for which New/Revised Courses

Old Bachelor of Geomatics Honours (Old Course)		**Revised Bachelor of Geomatics Honours (New/Revised Equivalent Courses)**	
Course Code	**Course Name**	**Course Code**	**Course Name**
AVG820S	Advanced Geovisualisation	GSV820S	Geodata Science and Visualisation
GMP811S	Geomatics Programming	AGT811S	Advanced Geodesy and Adjustment Theory

BACHELOR OF GEOMATICS HONOURS **08BGEH**
(Old Curriculum – Phasing out from 2020 until 2022)

NQF Level: 8 **NQF Credits: 120** **NQF Qualifications ID: Q0901**

Description
The main aim of the Bachelor of Geomatics Honours programme is to equip graduates with high level knowledge and skills in the acquisition, processing, presentation, and management of geospatial data. Graduates from this programme will be eligible to apply for registration as professional land surveyors, subject to conditions as prescribed by the Namibian Council for Professional Land Surveyors, Technical Surveyors and Survey Technicians (SURCON).

Upon completion of the Bachelor of Geomatics Honours programme, graduates should be able to:

- Perform advanced surveying and mapping operations, using a wide variety of equipment, software and techniques, under a wide variety of conditions;
- Apply analytical critical and problem solving skills to acquire, process, analyse and present survey data;
- Resolve complex boundary issues and disputes using advanced cadastral surveying principles and methods;
- Produce professional survey diagrams, plans and maps (cadastral and topographic);
- Develop effective software applications for the processing and analysis of survey observations and coordinates;
- Plan and execute research of applied nature requiring a wide range of advanced surveying, analysis techniques;
- Manage the effective and efficient acquisition, processing, presentation and maintenance of spatial data;
- Present and communicate academic or professional work effectively, catering for a wide range of audiences and/or in diverse genres; and
- Perform and manage advanced Global Navigation Satellite System (GNSS) and Geodetic Control surveys.

Admission Requirements
In order to be admitted to this programme, applicants must have a Bachelor of Geomatics degree from the Polytechnic of Namibia/ Namibia University of Science and Technology at NQF Level 7, an equivalent qualification at NQF Level 7 from a recognised institution, worth at least NQF 360 credits or a pre-NQF approved Bachelor over 3 year in the field of surveying/geomatics. All admissions are at the discretion of the Department and exceptions may be approved by the Department.

Applicants may be required to attend a pre-selection interview and/or test at the discretion of the Department. Applicants from other institutions must submit detailed information on all courses in their previous qualifications, as well as contact details of three referees. The latter also applies to applicants who have been working in the field subsequent to obtaining their previous qualifications.

Holders of Bachelor of Science in Geomatics from the Polytechnic of Namibia/Namibia University of Science and Technology may be admitted into this Honours programme, but they will have to pass the additional course Mathematics 2, before they can register for the Honours programme.

Articulation Arrangements
Transfer of credits will be dealt with according to the University's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification.

Upon successful completion of the Bachelor of Geomatics Honours, students will ordinarily be able to pursue further studies in the Geomatics or related cognate area of learning, at NQF Level 9.

Mode of Delivery
The programme will be delivered in full-time mode, with diverse teaching modes over a period of one year in accordance with the University's rules and regulations.

Requirements for Qualification Award
The Bachelor of Geomatics Honours will be awarded to students credited with a minimum of 120 NQF credits all at NQF Level 8. Students are required to complete five compulsory courses (worth 75 credits), and a thesis (worth 45 credits). In addition, students should meet the administrative and financial requirements spelled out in Part 1 of the Namibia University of Science and Technology Yearbook.

CURRICULUM

Course Code	Course Name	Prerequisite(s)	NQF Level	NQF Credits
Year 1				
Semester 1				
ACS811S	Advanced Cadastral Surveying	None	8	15
GDS811S	Geodetic Surveying	None	8	15
GMP811S	Geomatics Programming	None	8	15
RMG810S	Research Methodology	None	8	18
Semester 2				
AVG820S	Advanced Geovisualisation	None	8	15
MTG821S	Mini-Thesis	Research Methodology, Geodetic Surveying, Geomatics Programming	8	45

BACHELOR OF GEOINFORMATION TECHNOLOGY HONOURS **08HBGI**
(Revised Programme - Phased in 2019)

NQF Level: 8 **NQF Credit: 120** **NQF Qualification ID: Q0294**

Description
The Bachelor of Geoinformation Technology Honours is an initial postgraduate specialisation degree, designed for registration at NQF level 8. This programme builds on the outcomes of the Bachelor of Geoinformation Technology and aims at consolidating and deepening the knowledge and skills of students in the main cognate area of learning, as well as developing their capacity to conduct research of an applied nature. Students will be capacitated to do independent study in this field, evaluate issues critically pertaining to Geoinformation Technology (GIT), and to become expert practitioners in the theory, methods and applications of GIT to natural, socio-economic and rural/urban development. Overall, the programme places specific emphasis on the competencies and attributes that will enable students to assume supervisory/middle management and applied research positions in Government, or other organisations, such as mapping agencies in the field of GIS and remote sensing in Namibia, specifically, and more broadly within the SADC region. The programme focuses on niche areas in Geoinformation Technology through coursework and mini-thesis.

Admission for Requirements
In order to be admitted to this programme, candidates must have a Bachelor's degree in Geoinformation Technology from NUST, or an equivalent qualification at NQF Level 7 from a recognised institution, worth at least 360 NQF credits, in both cases with a minimum average of 60% in the core courses at exit level. Exceptions may be approved by the Departmental Board, and all admissions are at the discretion of the Departmental Board. Holders of other qualifications with GIS and/or Remote Sensing component(s) may be considered for admission and will be required to register for specific courses to make-up for the deficiency in their undergraduate programmes.

Applicants may be required to attend a pre-selection interview and/or test at the discretion of the Department. Applicants from other institutions must submit detailed information on all courses in their previous qualifications, as well as contact details of three references. The latter also applies to applicants who have been working in the field subsequent to obtaining their previous qualifications. Students with a background in a research methodology course at NQF Level 8 or above will be entitled to exemption/ credit recognition in those cases where a research proposal related to GIT was part of the assessment criteria and the submission of a research proposal was required.

Articulation Arrangements
The transfer of credits will be dealt with according to the University's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credits that can be granted are 50% of the credits for a qualification. Graduates of this programme will ordinarily be able to pursue further studies in Geoinformation Science and Technology, or a similar/related cognate area of learning, at NQF level 9.

Mode of Delivery
The programme will be offered (not simultaneously) on the full-time and part-time modes of study in accordance with NUST's rules.

NB: In case this programme is offered in part-time mode, students will be required to enroll for Research Methodology over two semesters (Semester 1 and 2) of this programme.

Requirements for Qualification Award
The Bachelor of Geoinformation Technology Honours will be awarded to students credited with a minimum of 120 NQF credits at NQF Level 8. Students are required to complete six compulsory courses (worth 90 credits) and a mini-thesis (worth 30 credits). In addition, students should meet the administrative and financial requirements spelt out in Part 1 of the NUST Yearbook.

Assessment Strategies
Students will be assessed through continuous and summative assessments. The assessments will focus on the achievement of qualification outcomes and take the form of problem solving exercises, individual/group assignments and presentations, case studies, report writing, practical application of skills and competencies, practical projects and questioning (tests and/or examinations). The use of validating end of term assessments may be minimised in order to free students' intellectual capacity for broader cognitive development. Assessment by means of tests and/or examinations will, therefore, be restricted to situations where it is necessary to establish that a previous specific performance can be repeated or a specific skill can be transferred. In accordance with NUST policy on diversified continuous assessment, each course assessed in this way will have a minimum of four assessment events. The minithesis will be assessed in accordance with NUST rules for studies at postgraduate level.

A make-up assessment is arranged for those who don't reach 50% of the total mark during the continuous and summative assessment.

Teaching and Learning Strategies
The requirements of the NQF underline the acquisition of cognitive skills and competencies exceeding the knowledge and understanding of subject specific knowledge items and professional/technical competencies. Thus, the qualification focuses on

the engagement of students in an interactive learning process in order to provide for the development of generic cognitive and intellectual skills, key transferable skills, and, as the case may be, subject specific and/or professional/technical practical skills. This learning process will be facilitated both in and outside the classroom, requiring specific tasks to be carried out by the student. This facilitation will make use of, inter alia, lectures, practical projects, tutorials, case studies, problem based learning, and individual and/or group work as well as excursions. The progress of learning embedded in such tasks will be monitored, recorded and assessed.

The teaching and learning strategies for this programme are designed not only to equip students with the necessary knowledge and expertise regarding Geoinformation Technology, but also to enable them to present and communicate academic or professional work effectively, conduct research, retrieve information efficiently, plan strategically, solve problems, and facilitate innovation as well as independent process evaluation. The compulsory mini-thesis is aimed at developing students' research capacity by planning and applying a coherent and critical understanding of the principles, theories and methodologies applicable to Geoinformation Technology.

Transition Arrangements

The Bachelor of Geoinformation Technology Honours (old curriculum) will be phased out systematically until 2018 with minimal disruption to existing students' learning progression. These last cohorts of students have until end of 2018 to complete the outphasing programme (old curriculum) after which students must automatically switch to the revised programme Bachelor of Geoinformation Technology Honours and fulfill all requirements based on the revised curriculum in 2019.

Students who are registered on the out-phasing programme (old curriculum), and who fail more than 50% of the courses at the end of 2018, will be required to change their registration to the new programme and will be granted credits on a coure-by-course basis in accordance with information in Table 1 below.

The revised Bachelor of Geoinformation Technology Honours (revised curriculum) will take effect from January 2019. Courses will only be offered based on the new/revised syllabi in 2019. Students who fail any of the courses on the old curriculum will be required to repeat such courses based on syllabi of new/revised corresponding courses. Please refer to Table 2, below, for detailed information on the new/revised corresponding courses to be done if courses on the old curriculum are failed.

Table 1: Courses to be credited

Course Code	Bachelor of Geoinformation Technology Honours (Old Courses)	Course Code	Bachelor of Geoinformation Technology Honours (Equivalent New/Revised
SDI810S	Spatial Data Infrastructures	SDI810S	Spatial Data Infrastructures
AGA810S	Applied Geostatistical Analysis	ASA810S	Advanced Spatial Analysis
NAG810S	Network Analysis and Geocoding		
ERS810S	Environmental Remote Sensing	ERS810S	Environmental Remote Sensing
AGV820S	Advanced Geovisualisation	GSV820S	Geodata Science and Visualisation
GAD820S	GIS Application Development	GAD820S	GIS Application Development
MAD810S	Mobile Application Development		
CRM820S	Community Resources Management		None

Table 2: Corresponding Courses (if Failed) Cognate area table

Course Code	Bachelor of Geoinformation Technology Honours (Old Courses)	Course Code	Bachelor of Geoinformation Technology Honours (Corresponding New/Revised Courses)
SDI810S	Spatial Data Infrastructures	SDI810S	Spatial Data Infrastructures
AGA810S	Applied Geostatistical Analysis	ASA810S	Advanced Spatial Analysis
NAG810S	Network Analysis and Geocoding		
ERS810S	Environmental Remote Sensing	ERS810S	Environmental Remote Sensing
RMG810S	Research Methodology (Geoinformation Technology)	RMG810S	Research Methodology (Geoinformatics)
MNS820S	Mini-thesis	MNS820S	Mini-thesis
AGV820S	Advanced Geovisualisation	GSV820S	Geodata Science and Visualisation
GAD820S	GIS Application Development	GAD820S	GIS Application Development
MAD810S	Mobile Application Development		None
CRM820S	Community Resources		None

Please Note:
The above-mentioned old course do not have new/revised corresponding courses in the Bachelor of Geoinformation Technology Honours (revised curriculum) and will be offered until the Bachelor of Geoinformation Technology Honours (old curriculum) is phased out completely.

NB: Exemption may not be granted for part of a course. Hence, in cases where more than one course in the old curriculum is replaced by one course in the revised curriculum, students who have failed any of the corresponding courses in the old curriculum will have to do the entire new course in the revised curriculum.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisite(s)
SDI810S	Spatial Data Infrastructures	None
ASA810S	Advanced Spatial Analysis	None
ERS810S	Environmental Remote Sensing	None
RMG810S	Research Methodology (Geoinformatics)	None

Semester 2

MNS820S	Mini-Thesis	Research Methodology (Geoinformatics)
GSV820S	Geodata Science and Visualisation	None
GAD820S	GIS Application Development	None

MASTER OF GEOINFORMATION SCIENCE AND EARTH OBSERVATION **09MGEO**

NQF Level: 9 **NQF Credits: 240** **NQF Qualification ID: Q0889**

Description
The Master of Geoinformation Science and Earth Observation is a postgraduate degree designed for registration at NQF Level 9, as an interdisciplinary programme for students with diverse natural science and social science backgrounds who desire specialised training in the use of remote sensing and geographic information systems (GIS). The programme builds on the outcomes of the level 8 qualifications in this cognate area and aims at providing practice-oriented education for high level scientists/specialists that are able to provide practical solutions to real-world in Geoinformation and Earth Observation related problems in Namibia and beyond.

Admission Criteria
Applicants who hold a Bachelor of Geoinformation Technology Honours or a four-year pre-NQF qualification with a research component or an equivalent qualification at NQF Level 8, from a recognised institution will be admitted into the programme.

Applicants may be required to make up specific deficiencies and attend a pre-selection interview and/or test at the discretion of the Higher Degrees Committee.

Applicants from other institutions are required to submit detailed information on all courses in their previous qualifications, as well as contact details of three referees. The latter also applies to applicants who have been working in the field subsequent to obtaining their previous qualifications. Exceptions may be approved by the Higher Degrees Committee, and all admissions are at the discretion of the Higher Degrees Committee.

Articulation Arrangements
The transfer of credits will be dealt with according to the University's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification. No articulation is provided for the research component of this degree.

The Master of Geoinformation Science and Earth Observation will ordinarily provide access to further studies at NQF level 10 in the same/similar cognate area of learning.

Mode of Delivery
This programme will be offered on the full-time modes of study through block-release sessions in accordance with the University's rules.

Requirements for Qualification Award
The Master of Geoinformation Science and Earth Observation will be awarded to candidates credited with a minimum of 240 NQF credits (all at Level 9). Students are required to complete three compulsory courses worth 60 credits, three elective courses worth 60 credits, and a master thesis worth 120 credits. In addition, students must meet the administrative and financial requirements of the University as set out in the Yearbook (Part 1).

The department will offer the programme in a flexible mode. The courses are, nonetheless, listed per semester in order to fit the normal curriculum structure.

Special Arrangements
Teaching and Learning Strategies
The requirements of the NQF underline the acquisition of cognitive skills and competencies exceeding the knowledge and understanding of subject specific knowledge items and professional and/or technical competencies. Thus, the qualification focuses on the engagement of students in an interactive learning process in order to provide for the development of generic cognitive and intellectual skills, key transferable skills, and, as the case may be, subject specific professional and/or technical practical skills.

The learning process will be facilitated both in and outside the classroom, requiring specific tasks to be carried out by the student. This facilitation will make use of, inter alia, lectures, practical projects, tutorials, case studies, problem based learning and individual and/or group work as well as excursions. Multimedia courses offering online tutorials and lectures will also be used. The progress of learning embedded in such tasks will be monitored, recorded and assessed.

The thesis requires the student to work under the guidance of an academic and industrial supervisor, and to follow a defined programme with milestones. The student needs to manage collaboration between supervisors (core staff in the department) and people in industry (often the student's supervisor or a senior manager). Such collaboration must be maintained throughout the thesis development process.

Assessment Strategies

All Courses will be assessed by diversified continuous assessment. To ensure authenticity of assessment evidence, at least 50% of the assessment events making up the final mark must be conducted under controlled conditions similar to those under which institutional examinations are conducted. Should examination conditions not be appropriate for the nature of the assessment, the lecturer and department must take appropriate and rigorous steps to ensure such authenticity.

Quality Assurance Arrangements

Each course (please refer to the Detailed Qualification Requirements) will have one or more examiners and one moderator. Moderators will be identified externally. The required minimum qualification of the moderator will be at least a Master's degree. The moderators must also be knowledgeable individuals who are well-respected experts in the field of earth observation, GIS and Remote Sensing. Lecturing staff will set and mark tests/assignments and/or examinations which will, together with relevant study material of that particular course and other material containing course learning outcomes in the context of the qualification learning outcomes, be forwarded to the moderator for moderation purposes, therefore, ensuring quality of the assessment and the qualification as a whole. The examinations, memoranda and course outlines will be forwarded to moderators, approved by Senate, for moderation. The thesis will be moderated in accordance with the University's rules for studies at postgraduate level.

Transition Arrangements

This is a new programme that does not replace any existing programme(s). Transition arrangements are, therefore, not applicable.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
SAM911S	Spatial Analytical Methods	None	9	20
AIP911S	Advanced Image Processing and Interpretation	None	9	20
Plus one of the following electives:				
CGI911S	Communication of Geospatial Information	None	9	20
SDW911S	Spatial Databases and Web Mapping	None	9	20
Semester 2				
GRM921S	Research Methodology	None	9	20
Plus two of the following electives:				
AER921S	Advanced Environmental Remote Sensing	None	9	20
MGI921S	Management of Geospatial Information	None	9	20
AGP921S	Advanced GIS Programming	None	9	20
ADP921S	Advanced Digital Photogrammetry	None	9	20
AGS921S	Advanced GIS for Spatial Planning	None	9	20
Year 2				
Semester 3				
GST911S	Thesis Geoinformation Science and Earth Observation	Research Methodology and all first year courses	9	120
Semester 4				
GST913X	Thesis Geoinformation Science and Earth Observation	Research Methodology and all first year courses		

DEPARTMENT OF ARCHITECTURE AND SPATIAL PLANNING CODE 91

QUALIFICATIONS OFFERED

Bachelor of Architecture Honours....08BARH
Bachelor of Quantity Surveying Honours (Phasing in 2020)....08BOQS
Bachelor of Urban and Regional Planning Honours....08BURH
Bachelor of Regional and Rural Development Honours....08BRDH
Master of Architecture....09MARC
Master of Landscape Architecture....09MOLA
Master of Urban Design....09MOUD

BACHELOR OF ARCHITECTURE HONOURS 08BARH
(Revised) (Phased in 2017)

NQF Level: 8 **NQF Credits: 120** **NQF Qualification ID: Q0994**

Criteria for Admission

Applicants holding a Bachelor of Architecture degree, obtained from the Namibia University of Science and Technology, will be evaluated by the Departmental Postgraduate Selection Committee on academic merit, based on the minimum average mark of 60% for their third year courses, and with regards to the maximum intake per academic year. Candidates who do not meet the above requirements are advised to gain a minimum of one year work experience in an architectural office, to develop a portfolio of work experience, with which they are encouraged to re-apply in the next available academic year. Such candidates will be invited for an interview with the Departmental Postgraduate Selection Committee, including a portfolio review, as per requirements set out by the Department.

Applicants holding a Bachelor of Architecture degree obtained from any other recognised Tertiary Education Institution, at NQF Level 7 worth a minimum of 360 credits or holders of an equivalent pre-NQF 3-year qualification in the field of architecture, of a recognised Tertiary Education institution are eligible for admission for the B Arch Hons programme. Such qualifications will be evaluated by the Departmental Postgraduate Selection Committee to determine equivalence in terms of core competencies, acceptable to the Department.

In addition, candidates must have obtained a minimum average mark of 60% in Year 3 courses. Candidates who do not meet the above requirements are advised to gain a minimum of one year work experience in an architectural office, to develop a portfolio of work experience, with which they are encouraged to re-apply in the next available academic year. Eligible candidates will be invited for an interview with the Departmental Postgraduate Selection Committee, including a portfolio review of relevant study experience, as per requirements set out by the Department.

The decision of the Departmental Postgraduate Selection Committee is final and no discussion of the results with the candidates will be entertained.

Articulation Arrangements

Transfer of credits will be dealt with according to the NUST regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification.

Students who complete the Bachelor of Architecture Honours successfully will ordinarily be able to undertake further studies at NQF Level 9.

Mode of Delivery

This programme is offered on the full-time mode in accordance with NUST's rules and regulations.

Requirements for Qualification Award

The Bachelor of Architecture Honours will be awarded to candidates credited with a minimum of 120 NQF credits, and who have met the detailed requirements set out below. In addition, students should meet the administrative and financial requirements in accordance with Part 1 of the NUST Yearbook General Information and Regulations.

Transition Arrangements

The old curriculum has been phased out. Students who failed to complete their old curriculum courses by the end of 2017 will be transitioned to the new curriculum. They will receive credits for old curriculum courses passed as per table 1 below, and will need to register for equivalent courses to their outstanding courses as per the table 2 below.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisite	NQF Level	NQF Credits
HDP811S	Honours Design Project 1	None	8	20
GSU811S	Global South Urbanism	None	8	15
CEW811S	Construction Economics and Works Estimation	None	8	10
RMR 810S	Research Methodology	None	8	15
Semester 2				
HDP821S	Honours Design Project 2	Research Methodology; Honours Design Project 1	8	30
ICT821S	Integrated Construction Technology	None	8	10
EDT821S	Environmental Design and Technology	None	8	10
BLC821S	Building Law and Contract Management	None	8	10

BACHELOR OF QUANTITY SURVEYING HONOURS **08BOQS**
(Phased in 2020)

NQF Level: 8 **NQF Credits: 120** **NQF Qualification ID: Q2020**

Criteria for Admission
Applicants holding a Bachelor of Quantity Surveying Degree, obtained from the Namibia University of Science and Technology, are eligible for admission into the Bachelor of Quantity Surveying Honours programme. Additionally, a candidate must obtain a minimum average mark of 60% for third-year courses, excluding institutional courses. Candidates who do not meet these requirements are advised to gain a minimum of one-year work experience in a quantity surveying consultant firm or an equivalent construction related firm in order to develop a portfolio of works, with which they are encouraged to re-apply in the next available academic year.

In this case, admission will be by means of a selection interview with the Departmental Postgraduate Selection Committee, during which candidates will be required to present a satisfactory portfolio of work, which may include work from previous studies or industry work experience.

Applicants holding a Bachelor of Quantity Surveying Degree obtained from any other recognised Tertiary Education Institution, at NQF Level 7 worth a minimum of 360 credits, or equivalent pre-NQF 3-year qualifications are eligible for admission. Qualifications from other institutions will be evaluated by the Departmental Postgraduate Selection Committee to determine equivalence in terms of core competencies, acceptable to the Department.

Candidates who do not meet these requirements are advised to gain a minimum of one-year work experience in a quantity surveying consultant firm or an equivalent construction related firm in order to develop a portfolio of works, with which they are encouraged to re-apply in the next available academic year.

In this case, admission will be by means of a selection interview with the Departmental Postgraduate Selection Committee, during which candidates will be required to present a satisfactory portfolio of work, which may include works from previous studies or industry work experience.

The decision of the Departmental Postgraduate Selection Committee is final and no discussion of the results with the candidates will be entertained.

Articulation Arrangements
Transfer of credits will be dealt with according to the NUST regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification.

Students who complete the Bachelor of Quantity Surveying Honours successfully will ordinarily be able to undertake Master of Quantity Surveying, Msc. in Construction Project Management or related disciplines at NQF Level 9.

Mode of Delivery
This programme is offered on the full-time mode in accordance with NUST's rules and regulations.

Requirements for Qualification Award
The Bachelor of Quantity Surveying Honours will be awarded to candidates credited with a minimum of 120 NQF credits, and who have met the detailed requirements set out below. In addition, students should meet the administrative and financial requirements in accordance with Yearbook Part 1 of the NUST Yearbook, General Information and Regulations.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisite	NQF Level	NQF Credits
RMR 810S	Research Methodology	None	8	15
MSM811S	Measurement	None	8	15
CSF811S	Construction Finance	None	8	15
PPP811S	Professional Practice and Procedures	None	8	15

Semester 2

CLS821S	Construction Costing and Feasibility Study	None	8	15
CCM821S	Contract Management	None	8	15
MIT821S	Mini-Thesis	None	8	30

BACHELOR OF URBAN AND REGIONAL PLANNING HONOURS (Revised) (Phased in 2020) **08BURH**

Purpose
The Bachelor of Urban and Regional Planning Honours is a postgraduate specialisation degree that aims at consolidating and deepening the knowledge and skills of students in the main cognate areas of learning and capacitate them to conduct applied research. It builds upon the outcomes of the Bachelor's degree in the same subject fields/cognate area of learning.

The programme is purposefully designed to produce students with a deepened theoretical grounding in the historical development and contemporary theories, concepts and approaches of urban and regional planning, as well as the requisite tools, methods and skills to analyse and solve spatial planning, urban design, urban mobility and transportation planning problems, and to prepare various spatial planning interventions. In addition, the programme equips students to conduct applied research, communicate results successfully and make appropriate decisions based on research findings.

Criteria for Admission:
Applicants may be admitted to this programme if they have a Bachelor of Town and Regional Planning degree (NQF Level 7) from NUST.

Applicants with an equivalent, relevant qualification at NQF Level 7, worth at least 360 credits, from other recognised tertiary education institutions, will be evaluated in terms of the minimum core competencies of urban and regional planning imbedded in their curricula – moral and ethical dimensions of planning; demonstrating theoretical and contextual dimensions; linking knowledge of spatial plans and policies; linking theory and practise of integrated development; executing academic research; and demonstrating effective managerial and communication skills. Such applicants may be required to enroll for selected undergraduate courses if the Department deems it necessary to address critical gaps in the core competencies. These courses may be taken concurrently with the Bachelor of Urban and Regional Planning Honours programme.

Articulation Arrangements
The transfer of credits will be dealt with according to NUST's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credits that can be granted are 50% of the credits for a qualification.

Graduates of this programme will ordinarily be able to pursue further studies in urban and regional planning or a related cognate area of learning at NQF level 9. Graduates may also articulate horizontally into related existing or new programmes at NQF level 8.

Mode of Delivery
The programme will be offered on the full-time mode of study, in accordance with NUST rules and regulations

Requirements for Qualification Award
The Bachelor of Urban and Regional Planning Honours will be awarded to candidates credited with a minimum of 125 credits at NQF Level 8. In addition, students should meet the administrative and financial requirements as stipulated in Part 1 of the NUST Yearbook General Information and Regulations.

Teaching and Learning Strategies
The requirements of the NQF underline the acquisition of cognitive skills and competencies beyond subject-specific and professional/technical knowledge, understanding and skills. Teaching and learning strategies for this programme are designed to equip students with the necessary knowledge and expertise regarding urban and regional planning, to conduct research, retrieve information, think critically, solve problems, engage actively in the steps of a spatial planning process and present and communicate academic or professional work effectively.

As learning is viewed as an active, constructive process – rather than a passive, reproductive process – student-centred, engaging and active-learning pedagogical approaches and methods will be employed to foster deep learning, with lecturers in the role of learning facilitators. These methods will include reading, reflection, discussions, debates, case studies, individual and group problem- and project-based work, tutorials, studios, fieldwork, lectures and guest lectures. Social media and eLearning facilities will be employed to engage students

Assessment Strategies
Courses will be assessed using diversified continuous assessment methods, with the exception of the service course Project Planning and Management, which will have both continuous and examination-based assessments. All courses require a final mark of at least 50% to pass. Both formative and summative assessments will focus on the achievement of qualification outcomes and take the form of, inter alia, individual and group assignments, problem-solving exercises, presentations, report writing, practical application of skills and competencies, practical projects and questioning (tests). In addition, quizzes, self- and peer evaluation, and timely feedback from lecturers will be employed in formative assessments, for students to assess their own progress.

Quality Assurance Arrangements

Each course will have one or more examiners and one or more external moderators. The required minimum qualification of the moderator will be at least a Master's degree in Town/Urban and Regional Planning or a related field of study, or the person must be a knowledgeable and acknowledged expert in his/her field. Moderators will be appointed on approval by the Board of Studies of the Faculty of Natural Resources and Spatial Sciences. All assessments, whether verbal, graphic or written, will be moderated in accordance with NUST's rules and guidelines on moderation.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
ATU811S	Advanced Theory of Urban and Regional Planning	None	8	15
PPG811S	Project Planning and Management	None	8	15
UDN811S	Urban Design Studio	None	8	20
RMY811S	Research Methodology	None	8	15

Year 1
Semester 2

ITP821S	Integrated Transportation Planning	None	8	15
SPP821S	Spatial Planning Practice	None	8	15

Plus ONE of the following elective courses:

MTS822S	Mini-Thesis	Research Methodology	8	30
ARP822S	Applied Research Project	Research Methodology	8	30

BACHELOR OF REGIONAL AND RURAL DEVELOPMENT HONOURS (Revised) (Phased in 2020) **08BRDH**

Programme Aims/Purpose
The Bachelor of Regional and Rural Development Honours is a postgraduate specialisation degree that aims at consolidating and deepening the knowledge and skills of students in the main cognate area of learning and capacitate them to conduct research of an applied nature. It builds upon the outcomes of the Bachelor's degree in the same subject fields / cognate area of learning.

The programme is purposefully designed to equip students with a deepened theoretical grounding in the theories, concepts and approaches of integrated development planning and management, supported by knowledge of contemporary development issues and challenges experienced in rural areas. The programme aims to prepare students with the necessary knowledge, tools, techniques and skills to plan and manage regional and rural development projects and local economic initiatives, to manage complex rural issues and contribute to development outcomes, within the context of national and regional development priorities and environmental, social and economic sustainability. In addition, the programme equips students to conduct applied research, communicate results successfully and make appropriate decisions based on research findings.

Criteria for Admission
Applicants may be admitted to this programme if they have a Bachelor of Regional and Rural Development (NQF Level 7) degree from NUST.

Applicants with an equivalent, relevant qualification at NQF Level 7, worth at least 360 credits, from recognised tertiary education institutions, may be accepted or may be required to enrol for selected undergraduate courses if the Department deems it necessary to address critical gaps in the core competencies of regional and rural development. These courses may be taken concurrently with the Bachelor of Regional and Rural Development Honours programme.

Applicants with a Polytechnic of Namibia National Diploma in Land Use Planning may be considered for admission, provided they had completed undergraduate courses in the core competencies of regional and rural development. They may be exempted from the above-mentioned undergraduate courses if they have at least three years of applicable working experience and show competence in the field, based on a portfolio of relevant work undertaken at an acceptable standard.

Applicants may be required to attend a pre-selection interview and/or test at the discretion of the Departmental Selection Committee.

Articulation Arrangements
The transfer of credits will be dealt with according to NUST's regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credits that can be granted are 50% of the credits for a qualification.

Graduates of this programme will be able to pursue further studies in development studies, regional and rural development, public management, or similar/related cognate areas of learning, at NQF level 9. Graduates may also articulate horizontally into related programmes at NQF level 8.

Mode of Delivery
The programme will be offered on the full-time mode of study, in accordance with NUST rules and regulations.

Requirements for Qualification Award
The Bachelor of Regional and Rural Development Honours will be awarded to candidates credited with a minimum of 120 credits at NQF Level 8. In addition, students should meet the administrative and financial requirements as stipulated in Part 1 of the NUST Yearbook – General Information and Regulations.

Teaching and Learning Strategies
The requirements of the NQF underline the acquisition of cognitive skills and competencies beyond subject-specific and professional/technical knowledge, understanding and skills. Teaching and learning strategies for this programme are designed to equip students with the necessary knowledge and expertise regarding rural development, to conduct research, retrieve information, think critically, solve problems, engage actively in the steps of a planning process and present and communicate academic or professional work effectively.

As learning is viewed as an active, constructive process – rather than a passive, reproductive process – student-centred, engaging and active-learning pedagogical approaches and methods will be employed to foster deep learning, with lecturers in the role of learning facilitators. These methods will include reading, reflection, discussions, debates, case studies, individual and group problem- and project-based work, tutorials, studios, fieldwork, lectures and guest lectures. Social media and eLearning facilities will be employed to engage students.

Assessment Strategies

Courses will be assessed using diversified continuous assessment methods, with the exception of the service course Project Planning and Management, which will have both continuous and examination-based assessments. All courses require a final mark of at least 50% to pass. Both formative and summative assessments will focus on the achievement of qualification outcomes and take the form of, inter alia, individual and group assignments, problem-solving exercises, presentations, report writing, practical application of skills and competencies, practical projects and questioning (tests). In addition, quizzes, self- and peer evaluation, and timely feedback from lecturers will be employed in formative assessments, for students to assess their own progress.

Quality Assurance Arrangements

Each course will have one or more examiners and one or more external moderators. The required minimum qualification of the moderator will be at least a Master's degree in Development Studies or Regional and Rural Development or a related field of study, or the person must be a knowledgeable and acknowledged expert in his/her field. Moderators will be appointed on approval by the Board of Studies of the Faculty of Natural Resources and Spatial Sciences. All assessments, whether verbal, graphic or written, will be moderated in accordance with NUST's rules and guidelines on moderation. Lecturing staff will set and mark tests and assignments in accordance with set memoranda. Students will provide feedback on courses and lecturers by anonymous online evaluation. Peer evaluation of lecturers will be carried out through class visits by Department of Architecture and Spatial Planning (DASP) colleagues. The programme will be reviewed every 5 years.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisites	NQF Level	NQF Credits
RDP811S	Rural Development Planning	None	8	15
SLE811S	Sustainable Local Economic Development	None	8	15
PPG811S	Project Planning and Management	None	8	15
RMY811S	Research Methodology	None	8	15
Semester 2				
RDM821S	Rural Development Methods and Practice	None	8	15
END821S	Environment and Development	None	8	15
Plus ONE of the following elective courses:				
MNR821S	Mini-Thesis	Research Methodology	8	30
ARP821S	Applied Research Project	Research Methodology	8	30

MASTER OF ARCHITECTURE **09MARC**

NQF Level: 9 **NQF Credits: 240** **NQF Qualification ID: Q1103**

Admission Criteria
Applicants holding a Bachelor of Architecture Honours degree, obtained at the Polytechnic of Namibia/Namibia University of Science and Technology, or holders of an equivalent qualification at NQF level 8 worth 480 Credits of a recognised Tertiary Education Institution are eligible for admission for the M. Arch. programme. Qualifications from other institutions will be evaluated by the Departmental Postgraduate Selection Committee to determine equivalence in terms of core competencies, acceptable to the Department.

The admission of students will be by means of an interview with the Postgraduate Selection Committee, during which candidates will be required to present a portfolio of work, which might include work from previous studies as well as practical work carried out. The results of the selection process are final and no discussion or correspondence will be entered into.

Articulation Arrangements
Transfer of credits will be dealt with according to the University's regulations on Recognition of Prior Learning.

Graduates of this programme will ordinarily be able to pursue further studies at Doctoral level in Architecture, or a similar/related cognate area of learning at NQF Level 10.

Mode of Delivery
The programme is offered on the full-time mode in accordance with the University's rules and procedures.

Requirements for Qualification Award
The Master of Architecture will be awarded to candidates credited with a minimum of 240 NQF credits at NQF Level 9, completed by thesis and coursework, and who have met the detailed requirements set out below. Furthermore, students must meet the administrative and financial requirements as spelt out in Part 1 of the NUST Yearbook.

Teaching and Learning Strategies
The requirements of the NQF underline the acquisition of cognitive skills and competencies exceeding the knowledge and understanding of subject specific knowledge and professional competencies for this level of qualification. Thus, the qualification focuses on the engagement of students in an interactive learning process in order to provide for the development of generic cognitive and intellectual skills, key transferable skills, and, as the case may be, project specific, professional design and applied skills.

The core of the curriculum is studio-based. Accordingly, the learning process will be facilitated both in and outside the studio/classroom, requiring specific design and project-based tasks to be carried out by the student. This facilitation will make use of, inter alia, formal lecturing, applied practical projects, tutorials, case study research, problem based learning and individual and group assignments. The progress of learning embedded in such tasks will be monitored, recorded and assessed.

Assessment Strategies
Assessment in the programme will be by diversified continuous assessment. For each of the courses, there will be a minimum of four assessment events per semester, and the general strategy will be to assess students through continuous and summative assessment. These assessments will focus on the achievement of qualification outcomes and take the form of problem solving exercises through design, individual/group assignments and presentations, case and precedent studies, report writing, practical application of skills and competencies, tutorials, practical projects and tests.

Transition Arrangements
As the M. Arch. programme is a new programme and no transition arrangements are applicable.

CURRICULUM

Year 1

Course Code	Course Title	Prerequisite
Semester 1		
IDS911S	Integrated Design Studio I	None
ABC911S	Advanced Building Construction	None
CUT911S	Critical Urban Theory	None
Choose ONE of the following Elective Courses:		
SML911S	Sustainable Materials Lab	None
HSD911S	Housing Design	None
BHC911S	Building Heritage and Conservation	None
Semester 2		
IDS921S	Integrated Design Studio II	Integrated Design Studio I
ARM921S	Applied Research Methodology	None
PPM921S	Professional Practice Management	None
Choose ONE of the following Elective Courses:		
AUB921S	African Urbanism	None
AUE911S	Applied Urban Ecology	None

Year 2

Year Courses		
MDT911S	Master Design Thesis	Integrated Design Studio II; Applied Research Methodology
MDT921S	Master Design Thesis	MDT911S

MASTER OF LANDSCAPE ARCHITECTURE **09MOLA**

NQF Level: 9 **NQF Credits: 240** **NQF Qualification ID: Q0992**

Description
The Master of Landscape Architecture (MLA) programme is designed for registration at NQF level 9. The programme equips students with the knowledge and skills required to carry out independent research, planning and design of architectural landscapes, and thereby enabling graduates to practice as professional Landscape Architects.

Graduates of this programme will be able to contribute significantly to national economic development as Landscape Architects and Environmental Planners in private and public sector, including tertiary/training institutions, research organisations, financial institutions, environmental consultancies, property development agencies and construction companies.

Criteria for Admission
Applicants holding a B. Arch. Honours degree, obtained from the University or any other recognised institutions, or holders of an equivalent 4-year qualification in Architecture, Urban Design, Landscape Technology/Studies, at NQF level 8 worth 480 credits of a recognised Tertiary Education Institution are eligible for admission for the MLA Programme.

Qualifications from other institutions will be evaluated by the Departmental Postgraduate Selection Committee to determine equivalence in terms of core competencies, acceptable to the Department.

The admission of students will be by means of an interview with the Postgraduate Selection Committee, during which candidates will be required to present a portfolio of work, which might include work from previous studies as well as industry work.

Candidates without formal design training will be expected to demonstrate acceptable level of interest and aptitude for design and creativity.

In addition, criterion for selection includes evidence of research experience as part of the candidates' CV, described in reasonable detail, while candidates should indicate in as complete a manner as possible their proposals for the development of their own independent research.

The results of the selection process are final and no discussion or correspondence will be entered into.

Articulation Arrangements
Transfer of credits will be dealt with according to the NUST regulations on Recognition of Prior Learning. These provide for course-by-course credits as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification. No articulation is provided for the research component of this degree.

Graduates of this programme will ordinarily be able to pursue further studies at Doctoral level in Landscape Architecture or a related cognate area of learning at NQF Level 10.

Mode of Delivery
The programme is offered on the full-time mode in accordance with NUST rules and regulations.

Requirements for Qualification Award
The Master of Landscape Architecture (MLA) degree will be awarded to candidates credited with a minimum of 240 NQF credits, (all at NQF Level 9). Additionally, students must meet the administrative and financial requirements as spelt out in the NUST Yearbook.

Transition Arrangements
This is a new programme, which does not replace any existing programme, so no transition arrangements are applicable.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisite
ILD911S	Integrated Landscape Design Studio I	None
LAT911S	Landscape Architecture Theory	None
RPF911S	Regulatory and Professional Practice Framework	None
AUE911S	Applied Urban Ecology	None

Semester 2

ILD921S	Integrated Landscape Design Studio II	None
SVT921S	Soil and Vegetation Technology	None
ARM921S	Applied Research Methodology	None

Year 2
Semester 3

CUT911S	Critical Urban Theory	None

Semester 3 and 4 (YEAR COURSE)

DST911S	Design Thesis	Integrated Landscape Design Studio I and II; and Applied Research Methodology
DST921S	Design Thesis	DST 911S

MASTER OF URBAN DESIGN **09MOUD**

NQF Level: 9 **NQF Credits: 240** **NQF Qualification ID: Q1131**

Description
The Master of Urban Design (MUD) aims at providing practice-oriented education to enable students to pursue careers as an urban designer in Namibia and beyond. The programme covers major cognate areas of learning including urban design and practice, critical theory of urban design and urban systems. Furthermore, the programme is designed to increase capacity for applied research in urban design and the built environment. The programme will be facilitated through coursework and mini-thesis and is structured to be largely studio-based with prospects for skills in design, theory and practice.

Admission Criteria
The Master of Urban Design Programme seeks suitably qualified candidates who can benefit from, contributing to, and successfully completing the programme. To be considered for admission to this programme, applicants must:

- Hold either a minimum of the Bachelor of Architecture Honours degree, a Bachelor of Town and Regional Planning Honours degree, or a Bachelor of Regional and Rural Development Honours degree obtained from an educational institution that is of a recognised standard, or an equivalent 4-year qualification with a studio-based and supervised research component at NQF level 8 (worth 480 NQF credits) from a recognised institution. Qualifications obtained from other institutions will be evaluated by the Departmental Postgraduate Selection Committee to determine equivalence in terms of core competencies, acceptable to the Department.
- In addition to the minimum qualification stated above, applicants must provide evidence of a minimum of two years practical experience as a candidate professional after completing post graduate studies.

The selection of students will be by means of an interview with the Departmental Postgraduate Selection Committee, during which candidates will be required to present a portfolio of work, which might include work from previous studies as well as practical work carried out in previous place of work. The result of the selection process is final, and no discussion or correspondence will be entered into.

Articulation Arrangements
Transfer of credits will be dealt with according to NUST regulations on Recognition of Prior Learning. These provide for course-by-course credits, as well as credit transfer by volume under certain academic conditions. Maximum credit that can be granted is 50% of the credits for a qualification. Graduates of this programme will ordinarily be able to pursue further studies at Doctoral level in

Urban Design, or a related cognate area of learning, at NQF Level 10.

Mode of Delivery
The programme is primarily offered on block release, although some courses are shared with the Master of Architecture programme as full-time mode.

Requirements for Qualification Award
The Master of Urban Design will be awarded to candidates credited with a minimum of 240 NQF credits (all at NQF Level 9), and who have met the detailed requirements set out below. Students are required to complete ten (10) compulsory NQF Level 9 courses (worth 170 credits) and a design mini-thesis (worth 70 credits; NQF level 9). In addition, students should meet the administrative and financial requirements as stipulated in Part 1 of the NUST Yearbook.

CURRICULUM

Year 1
Semester 1

Course Code	Course Title	Prerequisites
IUD911S	Integrated Urban Design Studio I	None
HTU911S	History and Theory of Urban Design	None
AUE911S	Applied Urban Ecology	None

Semester 2

IUD921S	Integrated Urban Design Studio II	None
UST921S	Urban Systems	None
ARM921S	Applied Research Methodology	None
AUB921S	African Urbanism	None

Year 2
Semester 3

UDS911S	Integrated Urban Design Studio III	None
CUT922S	Critical Urban Theory	None
UPP911S	Urban Design Professional Practice	None

Semester 4

UMT921S	Urban Design Mini-Thesis	Integrated Design Studio III; Applied Research Methodology

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