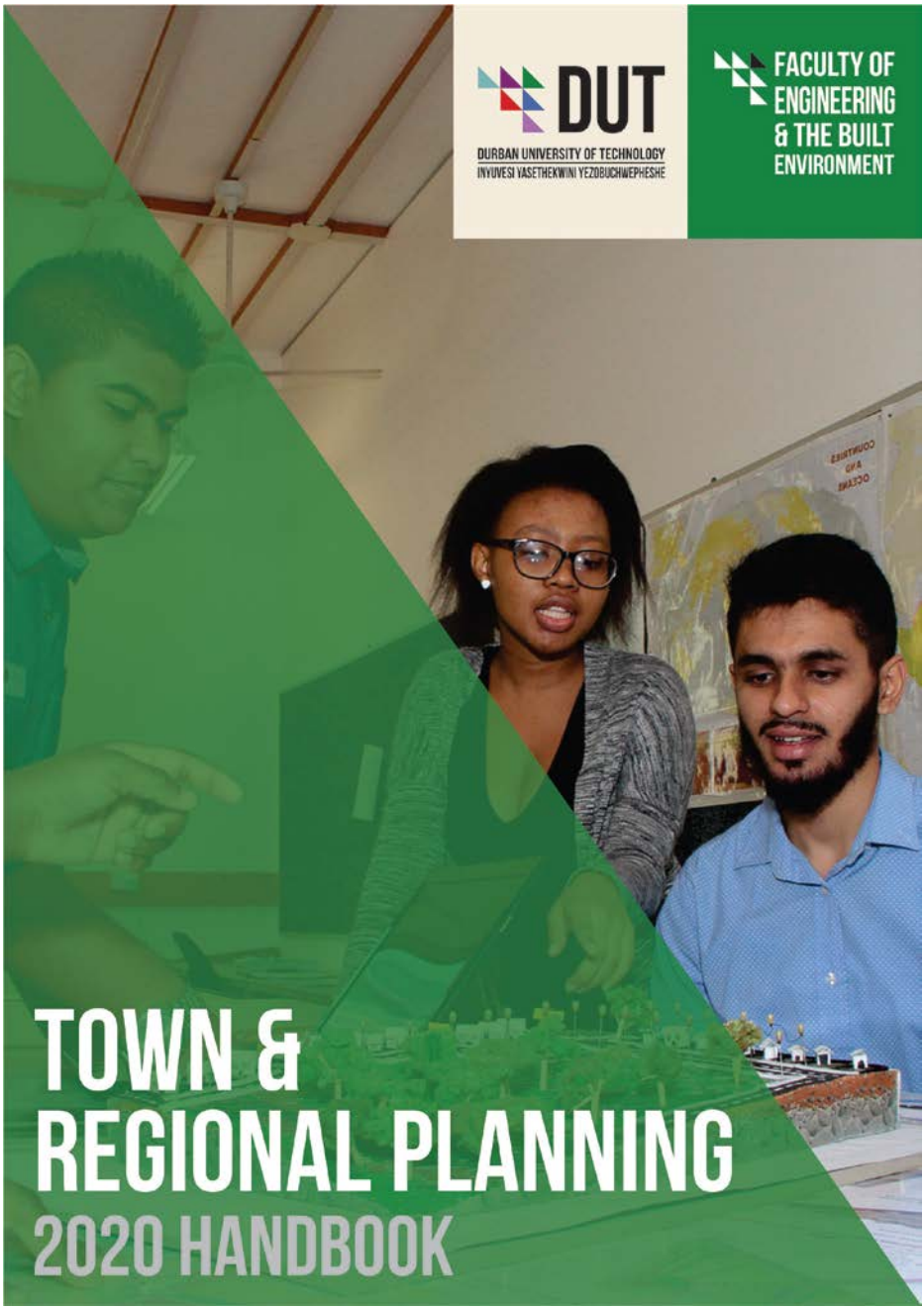

DUT
DURBAN UNIVERSITY OF TECHNOLOGY
INYUVESI YASETHEKWINI YEZOBUCHWEPHESHE

FACULTY OF ENGINEERING & THE BUILT ENVIRONMENT

TOWN & REGIONAL PLANNING

2020 HANDBOOK

HANDBOOK FOR 2020

FACULTY of ENGINEERING AND THE BUIILT ENVIRONMENT

DEPARTMENT of TOWN and REGIONAL PLANNING

DEPARTMENTAL MISSION

The Department of Town and Regional Planning recognizes the need to effectively respond to the socio-economic transformation challenges facing South Africa. The Department is committed to the principle of autonomy, academic freedom and rejects any form of racism, sexism and/or sectarianism. We are committed to developing a planning profession that is relevant and appropriate to the needs of the community, government, planning institutions and the private sector.

The Department therefore aims to offer a service to its students in the following ways:-

- to develop curricula and syllabi which are relevant and appropriate to the needs of the country undergoing socio-economic transformation;
- to reach out to communities where possible, by way of practical projects, and to make this information accessible to interested constituency groups;
- to redress the imbalances of the past especially in respect of race, gender, class and any other form of social imbalance, through appropriate equity policies;
- to develop and refine technological methodologies relevant to development planning;
- to continuously monitor and evaluate planning, teaching and learning methodologies to ensure effective planning education.
- To actively participate in developing student centered learning pathways throughout their educational experiences and as lifelong learners.

Purpose of the Programmes offered

The discipline of Town and Regional Planning forms part of the built environment profession and provides a significant service element to the construction sector. The profession underpins the development work of local government in South Africa in particular and contributes to housing projects, infrastructural development, township establishment, local economic development, industrial development, environmental considerations, rehabilitation, revitalization and urban renewal, rural development, amongst others, and has local, regional and continental reach.

The qualifications are intended to:

- develop our learners as a "whole", espousing the ethics and values of the institution, as well as the planning profession, to be a responsible citizen that makes a contribution to the positive development of our society, and has a "world view" that supports lifelong learning;
- achieve a balance between theory and practice;
- provide the relevant career focused training in the field of Town and Regional Planning within the context of the time of the programmes offered, resources and technology, and recognising the developmental context of our society, as well as the cross/ multi-disciplinary nature of our profession.

All the Town and Regional Planning courses offered are registered with The South African Qualification Authority (SAQA). The National Diploma: Town and Regional Planning and Bachelor of Technology: Town and Regional Planning have achieved unconditional accreditation by the South African Council for Planners (SACPLAN). The new qualification offerings will be accredited once the first cohort of students have completed the qualification.

What is a University of Technology?

A university of technology is characterized by being research informed rather than research driven where the focus is on strategic and applied research that can be translated into professional practice. Furthermore, research output is commercialized thus providing a source of income for the institution. Learning programmes, in which the emphasis on technological capability is as important as cognitive skills, are developed around graduate profiles as defined by industry and the professions.

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IMPORTANT NOTICE

The departmental rules in this handbook must be read in conjunction with the University of Technology's General Rules contained in the current General Handbook for Students.

NOTE TO ALL REGISTERED STUDENTS

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

1. CONTACT DETAILS

All departmental queries to:

Secretary:	Mrs. V Rabbiechun
Tel No:	031 - 373 2673
Fax No:	031 - 373 2805/0866741456
Location of Department:	Steve Biko Campus, S Block S3 Level 4, Room BS3605.

All Faculty queries to:	Faculty of Engineering and the Built
Faculty officer:	Ms Neetha Singh
Tel No:	031- 373 2548/2717
Fax No:	031- 373 2719
Location of Faculty office:	Steve Biko Campus, S Block, S4 Level 3

Executive Dean:	Prof Bhekisipho Twala
Tel No:	031- 373 2762
Fax No:	031- 373 2668

Location of Executive Dean's office: Steve Biko Campus, S Block, S6 Level 5

2. STAFFING Name and Qualification

Head of Department	Ms G Lincoln, MTRP (Natal)
Associate Director	Ms G Lincoln, MTRP (Natal)
Senior Lecturers	Ms N Foster, MTRP (Natal) Ms T Gordon, MTRP (Natal) Dr G G Musvoto, MTRP, PhD Town Planning (UKZN) Pr. Pln A/1829/2014
Lecturers	Ms AJ von Riesen MTRP (Natal) Ms R J Hansmann, MTRP (Natal) Pr. Pln A/1008/1998
Junior Lecturer	Mr Sibongiseni Ngubane BTech Town & Regional Planning,
GIS Lab Technician	Mr J Kitching, B Tech TRP (MLST)
Secretary	Mrs V Rabbiechun, ND: Executive Secretary

3. PROGRAMMES OFFERED BY THE DEPARTMENT OF TOWN & REGIONAL PLANNING

South Africa is undergoing democratic transition. This transition has brought to the fore numerous socio-political and economic problems. These problems are characterised by increasing rates of urbanisation, lack of housing, homelessness, growing unemployment, lack of facilities, economic deprivation of sections of our population and many more. It is in this changing environment that the planning profession must carry out its work. This poses enormous problems and places a great deal of responsibility on planning theorists, practitioners and technicians alike. The Durban University of Technology offers a three-year Bachelor of the Built Environment in Urban and Regional Planning, a Bachelor of the Built Environment Honours, and a Master of the Built Environment, that allows students the opportunity to learn technical, creative and relevant skills, which can be applied in a socially responsible way in our changing society.

3.1 Programmes offered

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

Qualification	SAQA NLRD Number	Credits	NQF Level
National Diploma: Town and Regional Planning Phased out 2019	72270	360	NQF 6
Bachelor of Technology: Town & Regional Planning Phased out 2019	73689	120	NQF 7
Bachelor of the Built Environment in Urban and Regional Planning	99018	360	NQF 7
Bachelor of the Built Environment Honours in Urban and Regional Planning	112549	120	NQF 8
Master of the Built Environment	96844	180	NQF 9
Doctor of Philosophy in the Built Environment	H04/1979/HEQSF TBD	360	NQF 10

The purpose of the qualifications offered in Town and Regional Planning is to provide professional and technical education leading to a qualification and professional recognition as identified by the Planning Profession Act of 2002.

To achieve this purpose, the Department provides the opportunity for learners to develop their skills, knowledge and application thereof, within the context of social responsibility and sustainable development through the following broad curricula guidelines:

- the use of social science theory as an analytical framework in which to understand, conceptualise and analyse society, politics, process, the environment and context of development;
- the application of design as a spatial tool for developing human settlement processes, land use and physical development
- economic issues and context as they relate to development

- the environmental and sustainability challenges for planning and society
- the legal framework in which planning functions
- management processes as it relates to the built environment
- ethics and values that underpin the profession
- developing life skills

3.1.1 National Diploma: Town & Regional Planning (Phased out in 2019) (NDTRP2 / 360 Credits / NQF 6)

3.1.2 Bachelor of Technology: Town & Regional Planning (Phased out in 2019) (BTTRP1/120 Credits/NQF 7)

3.1.3 Bachelor Degree of the Built Environment in Urban & Regional Planning (BBURP1/ 360 Credits / NQF 7)

The Bachelor of the Built Environment: Urban & Regional Planning comprises a three full-time years of study, with six semesters of modules.

The purpose of the degree as submitted to the South African Qualifications Authority is: *"The purpose of this qualification is to develop a graduate that has a good understanding of the field of urban and regional planning and is competent in the knowledge, attitude, insight and skills required for the urban and regional planning profession, in government and non-government sectors. The qualifying graduate will be able to work effectively in a team to competently apply and integrate theoretical principles, evidence-based techniques, practical experience, apply planning procedures and appropriate spatial and non-spatial skills in order to respond to challenges in the built and natural environment. Graduates may apply for registration with the South African Council of Planners (SACPLAN) as identified by the Planning Profession Act of 2002. Graduates achieving this qualification will be competent to work as a Planner, as part of a team, to initiate and manage change in the natural and built environment in order to further human development and sustainability."*

3.1.4 Bachelor Degree of the Built Environment Honours in Urban and Regional Planning (BHURP1 / 180 Credits / NQF 8)

The Bachelor of the Built Environment in Urban and Regional Planning Honours Degree in town and regional planning is a post-graduate specialisation qualification intended to prepare students for postgraduate study. This programme is designed to follow from the Bachelor of Urban and Regional Planning in Town and Regional Planning, as offered at the Durban University of Technology.

The purpose of this qualification is to develop a graduate that has a good understanding of the field of urban and regional planning and is competent in the knowledge, attitude, insight and skills required for the urban and regional planning profession, working in government and non-government sectors. The qualification consolidates and deepens the graduate's expertise in a specialised area of Urban and Regional planning and develops research capacity in the methodology and techniques of this discipline, while equipping

students to undertake more specialised and intensive learning. The qualifying graduate will be able to competently apply and integrate theoretical principles, evidence-based techniques, practical experience, apply planning procedures and appropriate spatial and non-spatial skills in order to respond to challenges in the built and natural environment.

Graduates may apply for registration in the category of a Professional Planner with the South African Council of Planners (SACPLAN) as identified by the Planning Profession Act of 2002. Graduates achieving this qualification will be competent to work as a Professional Planner to initiate and manage change in the natural and built environment in order to further human development and sustainability. Holders of this qualification are normally prepared to enter a specific niche in the labour market, or to further their studies through Masters and Doctoral programmes.

3.1.4 Master Degree of the Built Environment (MBTRP1 / 180 Credits / NQF 9)

The Masters Built Environment (MBE), by dissertation, is offered by the Department of Town and Regional Planning at the Durban University of Technology. The Department has specific eligibility enrolment criteria and procedures for the programme in line with its departmental strategic research objectives and discipline ethos. These are in line with the envisaged goals and objectives of the programme which are to prepare students for doctoral research as well as equip them with research skills for development planning. The purpose of the Master of the Built Environment is not for the purposes of professional registration with the South African Council for Town and Regional Planners (SACPLAN), but to further research capacity on planning related issues in KwaZulu-Natal.

This qualification is intended for persons who will make a contribution, through research, to understanding the application and evaluation of existing knowledge in a specialized area of urban and regional planning. They will also demonstrate a high level of overall knowledge in that area ranging from fundamental concepts to advanced theoretical or applied knowledge. This is a one-year research degree.

The primary purpose of the Master's Degree is to educate and train researchers, in a chosen Built Environment field, who can, under minimal guidance, contribute to the development of knowledge at an advanced level.

The research problem, its justification, process and outcome are reported in a dissertation, which complies with the generally accepted norms for research at this level.

3.1.5 Doctor of Philosophy in the Built Environment (DPBEN1/ 360 Credits / NQF 10)

The primary purpose of the Doctoral Degree is to develop an individual, in a chosen Built Environment field, to be able to contribute independently to the development

of significant and original knowledge at an advanced level.

The research problem, its justification, process and outcome are reported in a thesis, which complies with the generally accepted norms for research at this level.

This qualification is intended for persons who will make a contribution, through research, to understanding the application and evaluation of existing knowledge in a specialized area of urban and regional planning.

3.2 Career Information for the Town and Regional Planning Field

Urban and regional planners work within a diverse range of activities in which they develop land use plans, in order to develop and help create communities, and improve existing areas. Planners engage with the effects of population growth, migration and their impact on settlements, including towns, cities and city regions within the constitutional mandate of the country and its laws. The typical work of an urban and regional planner includes:

- Meeting with communities, public officials and developers about development plans and land use,
- Administration of government policies and plans that affect land uses, for example the National Development Plan 2030 and Spatial Planning and Land Use Management Act of 2013,
- Gather and analyse data from a range of sources such as land use surveys, census information, and economic and environmental information, traffic surveys, housing and community surveys for a variety of applications,
- Manage and assess proposals for development including development controls in relation to land use applications such as special consent, rezoning, sub-division of land, etc.
- Design and layout of existing township extensions, commercial and industrial layout, housing projects, or informal settlement upgrading,
- Cartographic work including the preparation of cadastral plans using Geographic Information Systems (GIS) and Computer Aided Draughting (CAD) software and is used to integrate data such as population density with digital maps,
- Assists in community participation processes to establish their needs, issues and goals. This is typically done through research, analysis of data and community engagement and collaboration to develop local strategies for development, and
- Planners often collaborate with a range of other professionals in the built environment such as architects, civil engineers, surveyors, environmental practitioners, property developers, lawyers and public officials.

Urban and regional planning is projected to grow as the momentum for implementing the National Development Plan takes shape, and has been identified as a scarce skill. Planners are typically employed in the private sector, planning firms, local provincial

authorities, and service organisations. Both technical planners and professional planners work in government departments at municipal, provincial and national levels and in state owned enterprises. In the private sector, there are career opportunities in planning firms and a range of other sectors such as community organisations and property development.

Graduates of the programme are able to enter the Urban and Regional planning profession and register with the Council as defined by the Planning Profession Act of 2002.

The following are planning and professional organisations that graduates are encouraged to join:

South African Planning Institute (SAPI)
Address: Private Bag X200, Halfway House, 1685
email: sapi@worldonline.co.za
Web: www.sapi.org.za
Tel. No. (011) 805 5947
Fax. No. (011) 805 5971

South African Council for Planners (SACPLAN) Postal Address:
The Registrar
The South African Council For Planners
PO Box 1084
Halfway House
Midrand 1685

Physical Address:
International Business Gateway Office Park
Corner New Road and 6th Street
Midridge Office Park
1st Floor Block G Midridge
Tel: (011) 318-0437 / (011) 318-0460
Fax: (011) 318-0405
Email: planner@sacplan.co.za

Graduates are encouraged to join the Council and Institute, which provide a forum for technicians and planners. During the course of their studies, students will be advised of the activities of the various fraternal planning organizations and how it benefits students and graduates to become members thereof.

3.3 Minimum Admission Requirements

3.3.1 National Diploma: Town & Regional Planning (NDTRP2) (Course no longer on offer)

Admission Requirements

The admission into the National Diploma: Town and Regional Planning requires a national Senior Certificate or recognized equivalent qualification. The qualification is being phased out. Please refer to Rule 5.6.

Duration and Structure of Course

The duration of the course for the National Diploma: Town & Regional Planning is three years. This is based on three one-year levels, i.e. two academic (Years One and Three), and one experiential (Year Two) sandwiched between them. The first and third years comprise full-time study at the Durban University of Technology, while the second year entails working for a firm of Town & Regional Planners or government department whilst completing projects set by the department. The Rules of Progression for the Diploma are set out in Section 5. and 7. below as well as under Section 8. Brief outline of Syllabi.

Work Integrated learning

The second year of the National Diploma: Town & Regional Planning is devoted to Work Integrated Learning, with students employed by a professional Town & Regional Planning practice, or by a government department, while remaining registered at the Durban University of Technology and having to complete practical projects.

Students will be briefed and set projects and will be required to produce design theoretical technical reports and the like. This will be undertaken within structured syllabi and will be monitored and evaluated by the institution's lecturers. The syllabi for Year Two are completed mostly in the student's own time whilst working in an office.

3.3.2 B-Tech. Town & Regional Planning (BTTRP1) (Course no longer on offer)

After completion of the National Diploma: Town & Regional Planning, the student could continue with his/her studies by applying for the B-Tech: Town & Regional Planning.

Admission Requirements

The admission requirements for the B-Tech: Town & Regional Planning is the National Diploma: Town & Regional Planning or equivalent qualification. Criteria for admission to the B-Tech: Town & Regional Planning is set out in 5.4 below.

Duration & Structure of Course

The B-Tech: Town & Regional Planning comprises a one year full-time course.

3.3.3 Admission to Bachelor Degree of the Built Environment in Urban & Regional Planning (BBURP1/360 credits/NQF 7)

PROGRAMME ADMISSION

Students who wish to enrol for the programme must apply through the Central applications Office (CAO) by end of September of the previous year (See 2.2 below). The number of students enrolled each year will be determined the University enrolment plan and the departmental growth policies. In addition to the minimum University admission requirements, the following criteria must be met by students wishing to study this higher degree.

A. The minimum admission requirements for degree purposes into the Bachelor of the Built Environment in Urban and Regional Planning is a Senior Certificate (SC), National Senior Certificate (NSC) or the National Certificate (Vocational) with appropriate subject combinations and levels of achievement, as defined in the Government Gazette, Vol 751, No 32131 of 11 July 2008, and in the Government Gazette, Vol. 533, No. 32743, November 2009. Alternatively, a Higher Certificate or an Advanced Certificate or Diploma in a cognate field may satisfy the minimum admission requirements.

B. The degree minimum requirements into this programme through the National Senior Certificate are with Mathematics (level 4) and English Home language (level 4) or English First Additional language (Level 5) and two additional twenty credit subjects (excluding another language subject) (level 4) as the compulsory requirements. At least one of these two 20 credit subjects at a minimum level of 4 must come from the following pool of subjects, namely Geography, History, Physical Science or Life Sciences. The latter is taken into account in ranking candidates from highest to lowest score for the available places.

C. The degree minimum requirements into this programme through the National Certificate (Vocational) are with equivalent subject combinations and levels of achievement, in English Home Language 60%, Mathematics 60% and additional three compulsory subjects at 70%. Students will then be ranked, alongside the NSC students, according to their marks for NCV Mathematics and Engineering Science.

D. Applicants may present a cognate National N4 Diploma for entry into the degree program. Credit transfer is not possible. Prospective students, that qualify for degree study at an institution of higher learning, but do not meet the departmental mathematics requirements, may present the following N4 subjects, for consideration for entry to the degree programme, of Mathematics and Engineering Science, with a minimum of 50%. Students will then be ranked, alongside the NSC students, according to their marks for N4 Mathematics and Engineering Science. Mathematics (N4) at a score of 50% is treated as the equivalent of NSC Mathematic with a rating of 4. Physical Science (N4) at a score of 60% is treated as the equivalent of NSC Physical Science with a rating of 5.

Table 1: Entry Requirements for the Bachelor of the Built Environment in Urban and Regional Planning

Bachelor of the Built Environment in Urban and Regional Planning				
ENTRY REQUIREMENTS	NSC	SC		NCV Level 4
Compulsory Subjects	Rating	HG	SG	%
English Home Language	4	D	C	60%
English First Additional/Second Language*	5	C	-	-
Mathematics	4	E	D	60%
* Either English Home OR English First Additional Language will be taken into account.				
Additional two Compulsory Subjects**	NSC Rating	SC HG	SG	NCV Level 4 %
Geography	4	D	C	70%
History	4	D	C	70%
Life Sciences/Biology	4	D	C	70%
Physical Science/Science	4	D	C	70%
OR any 20 credit subjects (not a language)	4	D	C	70%
** It is required that any one of the additional compulsory subjects is taking from the following pool of subjects (Geography, History, Life Sciences or Physical Science) at a minimum level 4. No equivalent				

E. Applicants students will be required to sit for a suitable placement test, as part of the entry requirement to this programme.

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

Duration & Structure of Course

The duration of the programme is 3 years of full-time study. The programme is based on semester modules that are assessed either through continuous evaluation, or examination. The programme is based on core planning modules and general education modules. Students are expected to complete a total of 33 modules for this programme.

Selection Procedure

It is the policy of the Durban University of Technology that all persons who apply for study at this Institution shall be subjected to a selection procedure as determined by the Institution from time to time. All first time applicants to the DUT should apply to study at the DUT via the Central Applications Office (CAO).
Contact details:
Phone: (031) 268-4444
Web: www.cao.ac.za

3.4 Admission to the Bachelor Degree of the Built Environment Honours in Urban and Regional Planning (BHURP1 / 180 Credits / NQF 8)

Minimum Admission Requirements

3.4.1 Students who wish to enrol for the honour's programme must apply to the Department by end of November of the previous year. The number of students enrolled each year is determined the University enrolment plan and the departmental growth policies.

3.4.2 In addition to the minimum University admission requirements, outlined in Rule G23C, the following criteria must be met by students wishing to study this higher degree:

The minimum entrance requirements for degree purposes into the Honours of the Built Environment in Urban and Regional Planning is a Bachelor of the Built Environment in Urban and Regional Planning at NQF 7 or equivalent.

3.5 Master Degree of the Built Environment (MBTRP1)

This qualification is intended for persons who will make a contribution, through research, to understanding the application and evaluation of existing knowledge in a specialized area of urban and regional planning. They will also demonstrate a high level of overall knowledge in that area ranging from fundamental concepts to advanced theoretical or applied knowledge. This is a one year research degree. The G-rules for Masters as contained in Rules G24, G25 and G26 of the General Handbook apply, as does the DUT Postgraduate Student Guide.

Selection Procedure

Application for the Masters programme is open to students who meet the requirements as per the G Rules above. Students are encouraged to contact the Masters Co-ordinator either telephonically (+27 31 3732673) or by email via the Secretary. Prospective students are required to submit a written motivation for undertaking the Masters, and are to submit a 500 word indicative abstract on their intended research area to the Masters Co-ordinator by November for entry for the following year.

Selection of students is made by a panel of senior academic staff, using a ranking system. The ranking system includes the following criteria: relevance of the existing qualification; academic record; professional experience; research proposal; and motivation for admission, and is evaluated using a ranking of: highly relevant, relevant, average, partly relevant and mismatch. Students will be informed of the outcome of their application by the end of January of the following year.

Once selected for the Masters programme, all students will register as per the DUT Postgraduate Student Guide. All students are required to undertake a

research methodology module, which includes the refining of the research proposal and acceptance thereof by the Faculty Research Committee before full registration can take place as per the G24 (2) rules.

4. GENERAL PROGRAMME INFORMATION AND RULES

4.1 General information

1. **Suitable Candidate Selection**
   A pre-registration system applies for all first time applicants to the Programmes in this Department. All applications must be made via the Central Applications Office (CAO) in the first instance.
   The contact details of the CAO are:
   Telephone: +27 31 268 444
   Web: www.cao.ac.za

2. **Selection Criteria**
   Demand for the programme generally exceeds the number of placements available. Selection into the programme is based on merit, and a ranking system will apply based on the Entry Requirements outlined in 2.1 above. Successful students are informed of the outcome of their application via changes made on their CAO status, and correspondence from the Department.

3. **Registration**
   Dates of registration will be according to the University calendar as applicable to degree and higher degree students and Rule G3 and Rule G25(2)(c) respectively. Registration takes place in January of each year. Students registering for the first time at the Durban University of Technology must produce their original Senior Certificate if available, statement of results, Identification document, at registration. If this requirement is not met, the Institution will be forced to cancel enrolment.

   On line web registration is now available to students for subsequent registration periods.

4. **Interruption of Studies**
   Rule G1(5) applies to registration in an instructional programme. If, for whatever reason, the student does not register consecutively for every year/ semester of his/ her programme, the existing registration contract with the Institution will cease. Any re-admission will be at the discretion of the Institution and, if permitted, will be in accordance with the rules applicable at the time of re-admission.

5. **Tuition & Examination fees**
   Tuition fees are available on request from the Student Admission Department. Examination fees are included in the tuition fees. Fees are not refundable. Fees are payable as follows: minimum pre-registration fees on or before the date of

registration and the balance in two instalments.

6. **Medium of Tuition**
   The medium of tuition is English.

7. **Hours of Tuition**
   Full-time classes officially start at 08h00.

8. **Prescribed Books**
   Reference books and technical journals are available to students at the library. Students will be instructed on which books and other equipment to buy.

9. **Bursaries & Loans**
   Various scholarships and loans are available. Further information may be obtained from Financial Aid Services.

10. **Residence**
    Limited hostel accommodation is available to full-time students. Students can only apply for accommodation once registered as a full-time student. This should be done with Student Administration.

11. **Student Identity Cards**
    Students are issued with identity cards at the beginning of their first and subsequent years of study. Presentation of these cards when buying materials, booking for theatres, etc. may mean special discount rates. For security purposes these cards must be presented on demand and must be carried by students at all times whilst on the Institution premises. Lost student cards must be replaced as soon as possible through the Student Admissions Department. Students must present their student cards at exam sittings as proof of Identity and registration.

12. **Student Counselling**
    Prospective students and students, who have problems regarding choice of career or subjects, may contact Student Counselling for an appointment.
    Contact Ms Naseem Haniff
    Tel. (031) 373-2266
    E-mail: SCDC@dut.ac.za

13. **International Students**
    Durban University of Technology is subject to government policy in respect of the admission of foreign citizens to undergraduate courses. Prospective students should not finalize their study plans before they have obtained the required visa and study permit. Enquiries at Student Admissions should be made in this regard.

4.2 Rules for Academic Conduct in the Department of Town and Regional Planning

All students are issued with a Durban University of Technology General Handbook for Students at Registration, available on the student portal. The onus is on the student to familiarize him/herself with these rules. Notwithstanding these rules, the rules for the Department are as follows:

1. **Student Responsibilities**

   All students who attend classes must be registered students of the programme. Any student who does not appear on the class registers will not be allowed in the lecture rooms, unless under special circumstances the student has been provided with a letter from the Head of Department, granting the student permission to attend classes.

   Attendance registers are taken for all classes, and are used to assist in determining a student's duly performed (DP) status. Please note that in order to receive a class mark at the end of each semester to allow a student to write the examination, a student is expected to attend lectures, see Rule G12(5) in the DUT General Handbook for students. Late arrivals into lectures are disruptive to the lecturer and students alike. No student will be allowed into the lecture room five (5) minutes after lectures have commenced. All mobile devices are to be switched off during formal lectures.

2. **Course Materials**

   All materials/references/assignments will be issued during formal lectures. A student who does not attend lectures will not receive this information, unless a valid reason is provided, such as illness. Proof as per 3. and 4. below apply.

3. **Illness**

   A student who is absent from lectures for three (3) consecutive days should produce a doctor's certificate or other official documentation indicating reasons for non-attendance.

4. **Tests/Assignments**

   If a student is sick on the day of a test or assignment, a doctor's certificate must be handed in to the lecturer concerned within one (1) week. If there has been a death in the immediate family, the death certificate must be produced within three (3) weeks. Failure to do this will result in the student being allocated 0% mark for said assessment or test. It is the student's responsibility to submit their own work to the lecturer at the time stipulated on the assessment brief.

5. **Exams**

   If a student is sick or there are extenuating circumstances in the student not being able to sit for the final examination, the onus is on the student to advise and apply, with supporting evidence, to the Faculty Office for an aegrotat examination (refer to G12 and G13 examination rules in the General Handbook for Students).

6. **Site visits, field trips, conferences, workshops**

   Site visits, field trips, conferences, workshops and all other external (off Campus) activities are governed by the Rules of Conduct set out in the General Handbook for Students. All students are required to observe the DUT Code of Conduct and Ethics in this regard. No private needs will be

permitted whilst on such official DUT business such as for example, dropping off students along the way, transporting visitors or receiving friends etc.

7. Equipment

All students are issued with equipment required to do the programme at the beginning of their first year of study (Engineering Equipment EEQP101). This equipment is considered as the "tools of the trade". Students will not be permitted in the drawing studios unless they have this equipment.

All students are required to have their own design equipment for examination purposes.

8. Student Identification Cards

Students' identification cards must be carried by students at all times, and must be produced by students for examination sittings. If the card is lost, this must be reported to Protection Services. The onus is on the student to apply for a replacement of a Student Identification Card as soon as possible.

9. Access Disk

All studios have secure access. Students are issued with access disks at the beginning of each year of study and are required to return them at the end of the respective year of study to the level Coordinator. Should a student misplace a disk, this must be reported to the level Coordinator. The student is liable for the replacement of the disc.

10. Change of Address

Should the student's address change whilst studying at the Durban University of Technology, the onus is on the student to inform the Faculty Office, and the Secretary of the Department of Town & Regional Planning. This is important as all correspondence from the Institution will be forwarded to the student study address.

11. Library Orientation

It is compulsory for all students to attend library orientation. This will be arranged with your lecturer and the library in due course.

12. Student Consultation

Students wishing to consult with the Head of Department and lecturers must do so according to the open consultation times indicated on the time-table. Should a student be unable to make that time, an appointment must be made through the Secretary of the Department with the lecturer concerned.

13. Assignments to be handed in to lecturer in class

All assignments must be completed by the due dates and handed in during class to the lecturer concerned unless an alternative arrangement has been made by the lecturer. Under no circumstance should any work be handed in to the Secretary.

4.3. Duly Performed/Course Mark/Examination Mark

4.3.1 The final mark shall be made up of the average of assessments, both practical and theoretical, during each module of the programme. There are a combination of final examinations and continuous assessments in the various modules in the programme. The details pertaining to assessment for each module offering are contained in the module Study Guides.

4.3.2 Duly Performed/Course Mark/Examination Mark
The minimum Duly Performed (DP) semester mark for examination is 40%
The final mark is made up of 50% Course Mark and 50% Examination Mark, unless otherwise indicated (e.g. continuous assessment).
Classifying Student Performance:
(This refers to the composite evaluation result for each module.)

75% and above:	Distinction (Refer Rule G15)
50% and above:	Pass
45% - 49%:	Eligible for re-assessment
44% and less:	Fail

4.3.3 Rules G 13 (3) (a) & (b) shall be applied *mutatis mutandis* to students who have missed an examination assessment.

4.4. Academic Irregularities including Plagiarism

Cheating and plagiarism are unaccepted practices that will not be tolerated by the Department and Institution. The Durban University of Technology Rule Book for Students clearly outlines the procedures and actions that will be taken if such breaches occur. Refer to General Rule G13 (o) and (p). The Department keeps a record of all instances of cheating and plagiarism.

It is the responsibility of the student to reference work correctly, to avoid plagiarism and refrain from copying other students' work or allowing the student's own work to be copied.
Students will be required to submit a standardized signed declaration that they have not plagiarized any work with each document submitted for assessment.
Plagiarism occurs where:

- "paragraphs, sentences, a single sentence or significant parts of a sentence which are copied directly and not enclosed in quotation marks or appropriately footnoted; or referenced shortly thereafter;
- direct quotations are not used, but are paraphrased or summarized, and the source of the material is not acknowledged either by footnoting or other simple reference within the text of the paper;
- an idea of the material which appears elsewhere in printed electronic format or on film is used or developed without reference being made to the author or the source of that idea or material and with the intention to deceive."

Reference: Faculty of Environmental Sciences, Griffith University School of Environmental Planning: Course Guide 2000, pages 35, 36.

4.5. Class Representatives

Class representatives are elected for each level of study for a period of one (1) year. Elections will be conducted by the lecturers. Should students be experiencing difficulties, problems or concerns, these must be raised through the class representatives to the lecturer concerned. Should these matters not be dealt with effectively, the student representative must then arrange an appointment with Year co-ordinator, then the Programme Co-ordinator and lastly, with the Head of Department.

5. PROGRAMME STRUCTURE NDTRP2 AND BTTRP1

5.1 National Diploma: Town and Regional Planning (NDTRP2)

NATIONAL DIPLOMA: Town & Regional Planning FIRST YEAR					
Code	**Subjects:**	***C/O**	**Semester/ Year**	**Assessment Method**	**Pre-requisite**
PLAN101	Planning I	C	Annual	Exam	
SANS101	Survey & Analysis I	C	Annual	Exam	
COSK101	Communication Skills	C	Annual	CA	
DRWG101	Drawing I	C	1st Semester	CA	
CPSK101	Computer Skills I	C	1st Semester	CA	
CIVE101	Civil Engineering I	C	1st Semester	Exam	
GEGY102	Geography I	C	1st Semester	Exam	
PLDE201	Planning Design II	C	2nd Semester	CA	DRWG101
SURG101	Surveying I	C	2nd Semester	CA	
EEQP101	Engineering Equipment	C	Annual	None	

Note: Drawing I, Planning Design II, Planning I, Survey and Analysis I, Communications Skills and Computer Skills are pre-requisite for entry into second year.

NATIONAL DIPLOMA: Town & Regional Planning SECOND YEAR					
Code	**Subjects:**	***C/O**	**Semester/ Year**	**Assessment Method**	**Pre-requisite**
PPPW201	Planning Practice & Project Work II	C	Annual	CA	DRWG101 PLDE201 PLAN101 SANS101 CPSK101 COSK101
	Work Integrated Learning	C	Annual	CA	DRWG101 PLDE201 PLAN101 SANS101 CPSK101 COSK101

Note: Drawing I, Planning Design II, Planning I, Computer Skills, Communication Skills and Survey and Analysis I are pre-requisite for entry into second year. In addition, the student may only carry two subjects into third year.

NATIONAL DIPLOMA: Town & Regional Planning THIRD YEAR (NQF 6)						
Code	**Subjects:**	***C/O**	**Semester/ Year**	**Assessment Method**	**NQF Level**	**Pre-requisite**
LGPR101	Legal Principles I	C	Semester	Exam	6	-
LEPO201	Legal -Procedures II	C	Semester	Exam	6	LGPR101
PLDS301	Planning Design III	C	Annual	Exam	6	PPPW201
DEVP301	Development Planning III	C	Annual	Exam	6	PLAN101 SANS101 PLDE201
CAPP301	Computer	C	Annual	CA	6	CPSK101

	Applications III					
STIS102	Statistics I	C	Semester	Exam	6	

* C = Compulsory; O = Optional
CA= Continuous Assessment

5.2. Re-Registration Rules

The institutional rules regarding re-registration apply.

Criteria for Promotion to Higher Levels & Pre-requisites / Rules of Progression

National Diploma: Town & Regional Planning

From First to Second year

Students will be allowed to register for the second year of study provided they have passed the following subjects:

Planning I
Drawing I
Planning Design II
Survey & Analysis I
Computer Skills I

Students may carry any two of the following subjects into third year; namely, Geography, Civil Engineering and Surveying.

From Second to Third Year

Students will be allowed to register for the third year of study provided:

- they have successfully completed their second year of study;
- do not carry more than two subjects from the first year;
- completed the mandatory twelve months experiential training of the 2nd year

To enrol for the third year students will be allowed to carry a maximum of two subjects provided they are not prerequisites for any of the third level subjects.

B. Tech: Town & Regional Planning

A student will only be allowed to enrol for the B.Tech. if the student has passed all first, second and third year subjects of the National Diploma: Town & Regional Planning and subject to the criteria laid out below.

5.3. B. Tech. Town & Regional Planning (BTTRP1)

After completion of the National Diploma: Town & Regional Planning, a student could continue with his/her studies by applying for the B-Tech: Town & Regional Planning.

B.TECH: TOWN AND REGIONAL PLANNING (NQF 7)

Code	Subjects:	*C/O	Semester/ Year	Assessment Method	Pre-requisite
PLDE401	Planning Design IV	C	Annual	Exam	-
CRPL401	City & Regional Planning IV	C	Annual	Exam	-
ENVS401	Environmental Studies IV	C	Annual	Exam	-
MANA103	Management IV	C	Annual	Exam	-
GISS401	Geographic Information Systems IV	C	Annual	Exam	-
CSTU401	Community Studies IV	C	Annual	Exam	-

5.4. Criteria for Admission to the B.Tech: Town & Regional Planning

National Diploma: Town & Regional Planning (New Course)

The minimum requirement for admission to the B-Tech. Town & Regional Planning is a National Diploma: Town & Regional Planning. Prospective students are required to have performed at an appropriate level as determined by the Department.

National Diploma: Town & Regional Planning (Old Course)

A student who is in possession of the National Diploma: Town & Regional Planning (T3) would only be eligible to enrol for the B-Tech. subject to completing a bridging module.

This module will comprise the following subjects taken from the new diploma:
Planning Design III
Development Planning III
Legal Procedures II
Computer Applications III
A student should have a minimum of 5 years relevant practical post diploma experience.
A working knowledge of CAD is a pre-requisite for entry at this level.

National Higher Diploma: Town & Regional Planning (Old Course)

A student who is in possession of a National Higher Diploma: Town & Regional Planning (T4) would be eligible to enrol for the B-Tech. subject to the following:
A working knowledge of CAD is a pre-requisite for entry at this level.
OR
A student should have a minimum of 4 years relevant practical post-diploma experience.
In all cases above it is the prerogative of the Department to call prospective students for an interview.

Exclusion Rules

The institutional rules regarding academic exclusion apply.

5.5. Subject Content

NB: Students to read this section in conjunction with the relevant learner guides.

Brief Outline of Syllabi

NATIONAL DIPLOMA: TOWN & REGIONAL PLANNING
First Year Subjects
Communication Skills (Continuous Assessment)
Recommended lecture periods 2 per week (1 Theory and 1 Tutorial)

1. Communication theory
2. Oral communication skills
3. Group communication skills
4. Technical writing
5. Applied technical writing
6. Interpersonal skills

Computer Skills I (Continuous Assessment)
Recommended lecture periods 3 per week (1 Theory and 2 Practicals)
1. The basic components and operation of a micro-computer
2. Software: Operating system, word processing, use of spreadsheet and introduction to computer aided drawing.
   Note: In order to proceed to second year, the student must pass this subject.

Drawing I (Continuous Assessment)
Recommended lecture periods 6 per week (+ 1 Tutorial)
1. Drawing paper: their different properties and uses.
2. Drawing equipment: their care and applications.
   Line work: construction lines, detail lines and final lines.
   Annotations: printing and stencilling.
   Scales: presenting reality on paper, enlarging and reducing plans.
3. Base plan compilation and town planning layouts and models.
   Note: In order to proceed to Planning Design II students first need to pass this subject in the first semester.

Geography I (Examination)
Recommended lecture periods 5 Theory per week
1. Ecology, hydrology, geomorphology,
2. Oceanography, climatology,
3. Urban Geography, Sustainability: soil conditions
4. Spatial representation / geo-visualization

Planning I (Examination)
Recommended lecture periods 5 Theory per week
1. Historical evolution of towns and architecture of buildings, early urbanisation and rural/urban migration in developing countries.
2. Planning concepts, models of urban structure, the physical character and form of urban settlements.
3. Locational theory: Residential, industrial, Commercial, recreational and the linkage between them.
4. Development control, urban conversion and renewal.
5. Development of South African Government policies and laws.
   Note: In order to proceed to 2nd year, a student must pass this subject.

Planning Design II (Continuous Assessment)
Recommended lecture periods 6 per week (1 Theory and 5 Practicals)
1. Theory of design: Visual elements, composition and spatial definition.
2. Techniques of design: The process of analysis, concepts and proposals of layouts and urban design.
3. Urban spaces: Environmental quality, composition and three-dimensional integration of design elements.
4. Techniques of presentation: conceptual sketches, plans, written reports and photographs.
   Note: See Drawing I above.

Survey & Analysis I (Examination)
Recommended lecture periods 5 per week
1. Survey Techniques.
2. Data Collection and Analysis Qualitative and Quantitative.
3. Land use surveys.
4. Demographic surveys.
5. Regional Surveys

6. Traffic and Transport Surveys.
7. Presentation Skills and Report Construction.

Note: In order to proceed to second year, the student must pass this subject.

Surveying I (Examination)

Recommended lecture periods 5 per week (2.5 Theory and 2.5 Practical's)

1. Basic principles of surveying.
2. Distance measurement.
3. Determination of co-ordinates with polars and traverses.
4. Determination of heights, longitudinal and cross sections.
5. Area surveying with tachometry.
6. Areas and volumes.
7. The use of the level and theodolite.
8. South African co-ordinate system

Civil Engineering I (Examination)

Recommended lecture periods 5 Theory per week

1. Site analysis.
2. Provision of the following services: Roads, water, sewage, storm water, transport routes.

Note: Drawing I, Planning Design II, Planning I, Computer Skills and Survey and Analysis I are pre-requisite for entry into second year.

Second Year Subjects

Planning Practice & Project Work II

Recommended consultation periods 4 periods per week

Assignments covering the following will be set throughout the year.

1. Preparation of maps, diagrams and illustrations, based on data provided.
2. Layout design.
3. Calculation of density, bulk allowance and slope.
4. Compilation of written reports and the presentation of statistical information.
5. Special Consent Application.
6. Acquisition, analysis and interpretation of data used for Town & Regional Planning reports.
7. Regional planning theory

Note: Drawing I, Planning Design II, Planning I, Computer Skills and Survey and Analysis I are pre-requisite for entry into second year. In addition, the student may only carry two subjects into third year.

Work Integrated Learning (12 months)

Work Integrated Learning must be undertaken at an approved place of work, and be under the control of a registered Town Planner. The criteria for evaluation will be determined by the institution together with the employer. Once a student is employed, a Department al Work Integrated Logbook will be issued to the student.

Diversity of tasks of the required for Work Integrated Learning:

1. Graphic Communication - preparation of plans, preparation of diagrams and illustrations, preparation of maps and plans from survey data, compilation of written reports, presentation of statistical data.
2. Planning Surveys - Acquisition of Data, Analysis of Data and Interpretation.
3. Planning Design - Statutory Control, Urban Design Projects, Preparation of Structure Plans, Sub-Divisional Layouts.

Students are to present task sheets approved by employer at regular intervals.

Visits by the institution's staff to employers, will be undertaken.

Furthermore, a student is required to submit the issued logbook, duly

completed, in order to qualify for graduation, as contained in Item 4 "*Procedure for Completion of Logbook*" in the Department Work Integrated Learning Logbook.

Third Year Subjects

Computer Applications III (Continuous Assessment)

Recommended lecture periods 8 per week (6 lectures and 2 Tutorials)

1. Development of algorithms and programmes in a high level language.
2. Use of application programmes for surveying, town planning and computer-aided drawing.
3. Database management systems.

Note: Computer Skills I is a pre-requisite for this subject.

Development Planning III (Examination)

Recommended lecture periods 6 per week (+ 2 Tutorials)

1. Socio-economic development: Basic introduction to macro and micro economics, economic systems and principles, allocation of scarce resources, supply and demand, factors of production, land as an economic commodity, economics of land use and development, globalization, unemployment and informality.
2. Economic growth and development, Regional Planning theories.
3. Planning and Government Systems, approaches to integrated development planning.
4. Planning, Climate change and sustainability
5. Urbanisation and urban systems.
6. Housing development: Legislation, availability of land for housing, the delivery systems, types of housing, financing sources, application of appropriate technology, community participation.
7. Case studies.

Note: Planning I, Survey and Analysis I and Planning Design II are pre-requisites for this subject. Students will not be allowed to enrol for this subject unless they have successfully completed their second year.

Legal Principles I (Examination)

Recommended lecture periods 4 Theory per week

1. Introduction to the law.
2. Different divisions of the South African system of Government.
3. Ownership of property: registration and transfer of land, single title and sectional title; servitudes; function of the Surveyor-General and Registrar of Deeds.

Legal Procedures II (Examination)

Recommended lecture periods 5 Theory per week

1. The legislative planning context in South Africa.
2. The historical context including planning legislation relating to the former KwaZulu and former Natal areas.
3. Township establishment and land use control procedures for KwaZulu-Natal.
4. Introduction to environmental law in South Africa.
5. Legislative context for development planning with an emphasis on Municipal Systems Act No.32 of 2000 and KwaZulu-Natal Planning and Development Act No. 6 of 2008 and Spatial Planning and Land Use Management Act No. 16 of 2013

Note: Legal Principles I is a pre-requisite for this subject.

Planning Design III (Examination)

Recommended lecture periods10 per week (5 studio and 5 lecture)

1. Site Analysis: City form; Public and private spaces; Housing Typologies and Density; Site Analysis Techniques

2. Urban Layout: Neighbourhoods and Threshold; Urban Design Concepts; Level of Services; Design guidelines; Layout and subdivision; sustainability and Design.
3. Informal Residential Design: In situ upgrading; De Facto Survey; Housing Project Cycle; Design Principles
4. Industrial/Commercial/Mixed Use Design: Mixed-use development; Shopping Hierarchy; Mixed use Design standards

   Note: Students will not be allowed to enrol for this subject unless they have successfully completed their second year.

Statistics I (Examination)

Recommended lecture periods 5 per week (4 Theory and 1 Tutorials)

1. Frequency distribution: organisation of data, graphic presentation.
2. Probability: Normal and binomial distributions, standard deviation. Sampling. Inferences concerning averages and standard deviation.
3. Regression and Correlation.
4. Non-parametric tests.

Brief Outline of Syllabi

B. TECH: TOWN AND REGIONAL PLANNING

Planning Design IV (Examination)

Recommended lecture periods 4 per week (1 Theory and 3 Studio)

1. Metropolitan planning: theoretical frameworks.
2. Spatial Frameworks.
3. Local Area Plans and Precinct Plans.
4. Layout design: Feasibility study.

The submission of a series of design projects will form part of this course.

City & Regional Planning (Examination)

Recommended lecture periods 4 Theory per week

1. Regional Planning
   Overview of Development Theory
   Theory and Approaches to Regional Planning
   Urban and Regional Resource Management
   Transportation
   Current Structures and Policies
2. Urban Planning
   Overview of Urban Processes
   Metropolitan Planning and Management approaches
   Land and housing SA policy and provision
   Globalisation and sustainability: impact on urban planning
   Urban regeneration

Environmental Studies (Examination)

Recommended lecture periods 3 Theory per week

1. **Ecology**
   Nutrition, Use of Matter and energy flows
   Limits and Limiting factors
   Habitats and niches
   Interactions between Organizations
   Stability and Stress
   Changes in populations, communities and ecosystems
   Classification and organisation in the ecosphere

2. **Environmental Issues**
   Population
   Socio-economics factors
   Local and global issues
3. **Environmental Management & Planning**
   Global to local perspective
   Government, non-government and business
   Environmental assessment
4. **Evaluative Techniques**
   Basic to advanced techniques
   Analysis and presentation
5. **Project Work**
   Project/s relating to ecology, environmental issues and environmental management, using appropriate evaluative techniques for analysis and presentation

Geographic Information Systems IV (Examination)
Recommended lecture periods 4 per week
1. **Theory & Principles of GIS**
   General concepts
   Data acquisition and management
   Raster and vector GIS
   GIS analysis
   GIS output
   Advanced concepts
2. **Software Training**
   Data capture tools and techniques
   Data analysis
   Data presentation
3. **Project Work**
   Completion of GIS projects involving data capture, analysis & output in hardcopy and digital format.

Management IV (Examination)
Recommended lecture periods 3 Theory per week
1. Human relations in organizations
2. Principles and practice of management
3. Financial management
4. Office organization and professional practice
5. Team-Building and Conflict resolution
6. Project management
7. Integrated Development Plans (IDPs)
8. Area Based Management approaches

Community Studies (Examination)
Recommended lecture periods - 2 Theory per week
1. Planning theory
2. Concepts and theories of community - sociological/ anthropological aspects and the challenges of modernization
3. The South African Context of Urban and Rural Communities in South Africa - challenges for reconstruction and participatory development in South Africa.
4. Participatory planning techniques and methodologies.
5. Community participation in the planning process - case studies (international and local).

5.6 Diploma Phase-out Plan

(As approved by the University Senate on 26 August 2015)

Important information for current and prospective students (effective as of January 2016):

The National Diploma: Town and Regional Planning shall be phased out starting in 2016 to allow for the introduction of new qualifications which must comply with the requirements of the new Higher Education Qualifications Sub-Framework.

The last cohort of first-time entering students admitted to this National Diploma qualification will be in January 2016.

Notwithstanding all the current rules (both the General Rules and Departmental Rules) that regulate this diploma, the last registration in which any student may register for each of the subjects is listed as follows:

Code	Subjects:	Semester/ Annual	Date
PLAN101	Planning I	Annual	January 2016
SANS101	Survey & Analysis I	Annual	January 2016
COSK101	Communication Skills	Annual	January 2016
DRWG101	Drawing I	1st Semester	January 2016
CPSK101	Computer Skills I	1st Semester	January 2016
CIVE101	Civil Engineering I	1st Semester	January 2016
GEGY102	Geography I	1st Semester	January 2016
PLDE201	Planning Design II	2nd Semester	July 2016
SURG101	Surveying I	2nd Semester	July 2016
PPPW201	Planning Practice & Project Work II	Annual	January 2017
	Work Integrated Learning	Annual	January 2017
LGPR101	Legal Principles I	Semester	January 2018
LEPO201	Legal -Procedures II	Semester	July 2018
PLDE301	Planning Design III	Annual	January 2018
DEVP301	Development Planning III	Annual	January 2018
CAPP301	Computer Applications III	Annual	January 2018
STIS102	Statistics I	1st Semester	January 2018

The dates stated in this rule are subject to change depending on the effective approval date for the new HEQF aligned programmes.

Please note that due to National legislation, signed into effect by the Minister of Higher Education in the Government Gazette no. 40123 of 6th July 2016, the last permitted enrolment for any non-HEQSF aligned programme will be the 31st December 2019. This means that you will not be able to enrol in a Bachelor of Technology (B Tech) degree at DUT, or at any other institution in South Africa after this date.

5.7 Bachelor of Technology Phase-out Plan

The last cohort of first time entering students admitted to the Bachelor of Technology (BTTRP1) qualification will be January 2019. Notwithstanding the current rules (both General Rules and Departmental Rules) that regulates this degree, the last year in which any student may register for each of the subjects is listed as follows:

Code	Subjects:	Semester/ Year	Last Possible Year of Registration
PLDE401	Planning Design IV	Annual	January 2019
CRPL401	City & Regional Planning IV	Annual	January 2019
ENVS401	Environmental Studies IV	Annual	January 2019
MANA103	Management IV	Annual	January 2019
GISS401	Geographic Information Systems IV	Annual	January 2019
CSTU401	Community Studies IV	Annual	January 2019

6. PROGRAMME STRUCTURE BACHELOR DEGREE OF THE BUILT ENVIRONMENT IN URBAN & REGIONAL PLANNING (BBURP1)

The focus of the programmes offered is to develop graduates with critical problem solving skills that support theory and practice in application. This requires reflective practice as a foundational pedagogy in the development of curriculum and the students' experience of the modules they undertake. Most of the modules offered include theory and practice and the ability to solve problems ranging from more simple technical issues in the first levels of study to more complex and creative responses in higher levels of study.

Expected graduate outcomes

1. Able to apply knowledge of research theory and techniques to address the problems arising in cities and regions in contemporary South African society.
2. Apply planning theories and a knowledge of planning histories to the design, management and implementation of planning to bring about positive change and societal benefits within human settlements.
3. Apply, engage and reflect on complex issues and legislative contexts in order to inform processes to initiate, manage and control land use changes in the natural and built environment.
4. Apply communication skills in retrieving and disseminating information.
5. Able to identify and respond to planning issues within the ethical boundaries of the planning profession, which encompasses an orientation to social justice, an appreciation of diversity and complexity of cultures and views, and the promotion of efficient resource use and sustainable development.
6. Able to analyse the given context, apply policy and legislation requirements and integrated planning principles in complex planning environments, as these pertain to strategic planning, management and project management across governance scales.
7. Apply scoping and site surveying techniques and appropriate technologies to analyse sites and solve problems.
8. Able to assist in optimizing the sustainable use of resources within the built and natural environment.
9. Apply professional conduct and ethical principles in undertaking any planning work.

The focus of the programmes offered is to develop graduates with critical problem solving

skills that support theory and practice in application. This requires reflective practice as a foundational pedagogy in the development of curriculum and the students' experience of the modules they undertake. Most of the modules offered include theory, practice, and the ability to solve problems ranging from more simple technical issues in the first levels of study to more complex and creative responses in higher levels of study.

Key aspects are introduced from year 1 and built up to year 3. This is evident from the module titles that run through the three year programme within broad themes. These include:

- **Design**: Planning Design 1A, 1B, 2A, 2B, 3A, 3B
- **Environment**: Sustainable Earth Studies, The Global Environment, Environment Management and Techniques;
- **Planning Theory**: Settlement History 1, Urban Planning Theory and Practice 1, Sociology and Society, Urban Planning Theory, Regional Development and Planning and Planning Sustainable Cities and Regions;
- **Research:** Statistics for the Built Environment, Academic Literacy, Communication Literacy 1, Research Methods 1, Geographic Information Systems 1, Research Methods 11, Geographic Information Systems 11 and Research Project;
- **Land Use:** Site Surveying 1, Introduction to Principles of Law, Economics for the Built Environment, Planning Law, Restorative Justice, Transportation Planning and Infrastructure Systems and Applied Land Economic for the Built Environment;
- **Management:** Management Principles and Project Management, Public Management and Planning.
- **General Education:** Cornerstone 101.

6.1 Programme Structure

The programme is structured according to modules as referred to in Table 3 below. All modules listed are compulsory in order to qualify in this Programme.

Table 3: Programme Structure

Study Year	Modules	Codes	NQF Level C* F**	SAQA credit	Pre- Requisite	Assessment Method Exam / CA*
1	Planning Design 1A	PLDS111	5C	16	-	CA
	Site Surveying 1	SSRV101	5F	12	-	CA
	Statistics for the Built Environment	STBE101	5F	12	-	Exam
	Academic Literacy	ACDL101	5F	8	-	CA
	Settlement History 1	STHS101	5C	12	-	Exam

	TOTAL Credits Semester 1			60		
	Planning Design 1B	PLDS121	5C	16	Planning Design 1A, Site Surveying 1	Exam
	Urban Planning Theory and Practice 1	UPTP101	5C	16	Settlement History 1	Exam
	Communication Literacy 1	CMCL101	5F	8	Academic Literacy	CA
	Cornerstone 101	CSTN101	5F	12	None	CA
	Sustainable Earth Studies	SERS101	5F	8	None	CA
	TOTAL Credits Semester 2 – Year 1			60		
2	Planning Design 11A	PLDS211	6C	12	Planning Design 1B	CA
	Urban Planning Theory 11	UPTH201	6C	12	Urban Planning Theory and Practice 1	Exam
	Management Principles and Project Management	MPPM101	6F	12	None	Exam
	Research Methods 1	RMDS101	6C	12	Statistics for the Built Environment	Exam
	Introduction to Principles of Law	IPLW101	6F	8	None	Exam
	The Global Environment	GENV101	6F	8	None	CA
	TOTAL Credits Semester 3 Year 2			64		
	Planning Design 11B	PLDS221	6C	12	Planning Design 11A	Exam
	Environmental Management and Techniques	EVMT101	6F	8	Management Principles and Project Management	CA
	Regional Development and Planning	RDVP101	6C	12	Urban Planning Theory 11	Exam
	Geographic Information Systems 1	GISY101	6F	8	Planning Design 11A	CA
	Economics for the Built Environment	ECBE101	6F	8	Urban Planning Theory 11	Exam
	Sociology and Society	SSCY101	6F	8	The Global Environment	Exam
	French for Sciences and Technology 1	FRST101 (Elective)	E	8	None	CA

	Mandarin for Sciences and Technology I	MNST101 (Elective)	E	8	None	CA
	TOTAL Credits Semester 4 Year 2			56		
3	Planning Design 111A	PLDS311	7C	12	Planning Design 11B	CA
	Planning Law	PLLW101	7C	12	Introduction to Principles of Law	Exam
	Transportation Planning and Infrastructure	TPLI101	7C	8	Regional Development and Planning	Exam
	Research Methods 11	RMDS201	7C	8	Research Methods I	CA
	Geographic Information Systems 11	GISY201	7F	12	Geographic Information Systems I	CA
	Applied Land Economics for the Built Environment	ALEB101	7F	12	Economics for the Built Environment	Exam
	TOTAL Credits Semester 5 Year 3			64		
	Planning Design 111B	PLDS321	7C	12	Planning Design 111A	Exam
	Planning Sustainable Cities and Regions	PSCR101	7C	12	Transportation Planning and Infrastructure	Exam
	Research Project	RPRO101	7C	12	Research Methods 11	CA
	Public Management and Planning	PMPL101	7C	12	Environment Management and Techniques	Exam
	Restorative Justice	RSJS101	7F	8	None	CA
	French for Sciences and Technology 2	FRST201 (Elective)	E	8	French for Sciences and Technology I	CA
	Mandarin for Sciences and Technology 2	MNST201 (Elective)	E	8	Mandarin for Sciences and Technology I	CA
	TOTAL Credits Semester 6 Year 3			56		
	TOTAL Credits			360		

C* = Core modules; F** = Fundamental
URP = Urban and Regional Planning Modules
FEBE = Built Environment Cluster of the Faculty of Engineering and the Built Environment Modules
GE = General Education Institutional Modules
CA = Continuous Assessment

Note: The qualification structure is made up of 360 credits.

General Education Modules

In terms of the approved DUT Guidelines, the proposed primary programme qualifications will include up to 30% general education component that compromises of general education modules, which all students across the University may access. In terms of the General Education document, the modules are distributed across the Faculty and the University and are delivered outside of the Department. This opens up flexible and cross-disciplinary leaning for students.

At a detailed level this means that all DUT students will register for Cornerstone 101 (12 credits module) in the first semester. Furthermore, students will register for a suite of modules across the university and these are included in the list below (8 credits each).

- Cornerstone 101
- Sustainable Earth Studies
- Sociology and Society
- The Global Environment
- Restorative Justice

In effect the general education component aligns closely with the Professional Body SACPLAN generic principles and makes the professional body competencies explicit and integrated in the curriculum.

- Electives

In addition, students may elect to take French or Mandarin in their second and third years of study.

6.2 Promotion to a Higher Level and Pre-requisites / Rules of Progression

Students are referred to this Department of Town and Regional Planning Handbook, in which the rules and regulations are outlined, as well as the DUT General Handbook for Students, at registration. It is incumbent on the student to familiarise him or herself with the contents thereof. These rules and regulations as set out in the relevant documents and handbooks, are binding.

The following are the rules of combination for the programme Bachelor in the Built Environment (Urban and Regional Planning). These must be read with reference to the G16 Rule in the General Handbook for Students.

6.2.1 The minimum pass mark for all modules is 50%.

6.2.2 The combination and progression of modules from one year to the next requires that a student must pass a specified module in the previous year or semester of study in order to proceed to the next semester or year as outlined in the Table 3 above.

In order to advance to the next year of study (From first, second, or third year), the student must have met the direct pre-requisites for any module, as set out in the Table 3 above, and as outlined below.

From year one to year two the student will be allowed to register for modules in the second year of study provided they have passed at least seven out of the ten modules in the first year.

Provided that all prerequisite rules are met, the student may combine year one and year two modules in year two.

From year two to year three, the student will be allowed to register for modules in the third year of study provided they have passed at least eight out of the twelve modules in the second year.

The student shall pass ALL the modules in year one BEFORE he/ she is permitted to register for ANY modules in the **third year** of study.

6.2 Subject Content

NB: Students to read this section in conjunction with the relevant study guides.

Brief outline of Syllabi

BBURP1 Bachelor Degree of the Built Environment in Urban and Regional Planning

PLDS111 Planning Design 1A Semester 1 (Continuous Assessment)

a. Developing drawing and plan-making skills:
1. Town planning conventions for drawing, printing and stencilling with technical pens.
2. Guidelines for drawing a base plan using town planning conventions such as appropriate line weights, placement of north point, scale bar, information box.
3. Guidelines to draw a simple plan and elevation of a building.

b. Site analysis:
4. On-site observation and analysis.
5. Lynch theoretical framework and analysis.
6. Construction of a basic topographical model and built features.

c. AutoCAD drawing skills:
7. Basic knowledge of hardware to run AutoCAD software.

SSRV101 Site Surveying 1 Semester 1 (Continuous Assessment)

a. Site Analysis and Development
1. Measure distances using a range of scales.
2. Calculate a change in scale.
3. Calculate slope and area.
4. Analyse slope.
5. Calculate density.
6. Draw a cross section using a range of scales.
7. Draw cut and fill banks.
8. Analyse main site features.

9. Explain site development in terms of road design, storm water runoff and management, sewerage system design and management, water reticulation and electrical provision.

b. Site Surveying

1. Basic principles of surveying
2. Distance measurement
3. Determination of co-ordinates with polars and traverses
4. Determination of heights, longitudinal and cross sections
5. Area surveying with tachometry.
6. Areas and volumes.
7. The use of the level and theodolite.
8. South African co-ordinate system

STBE101 Statistics for the Built Environment Semester 1 (Examination)

1. Frequency distribution: organisation of data, graphic presentation.
2. Probability: Normal and binomial distributions, standard deviation. Sampling.
3. Inferences concerning averages and standard deviation.
4. Regression and Correlation.
5. Non-parametric tests.
6. Analysis and Relationship Modelling, Observed Data and Graphical Representation, Parameter Estimation, Model Verification, Linear Models and Linear Regression, Error Analysis, Data Projection, Analysis and Modelling, Trend analysis, Cluster and Factor Analysis.

ACDL101 Academic Literacy Semester 1 (Examination)

1. Understand practices and tools to support effective and simple written, oral, visual and graphic presentations.
2. Understand types and sources of information to support decisions making and research.
3. Understand the ethics of acknowledging the sources to knowledge and be able to apply the DUT Harvard Reference Style to written documents and manage references through appropriate technology.
4. Effectively summarise documents and reports related to the disciplines of architecture, construction studies and urban and regional planning.

STHS101 Settlement History 1 Semester 1 (Examination)

a. The history and the evolution of human settlements

1. Pre-history and Early Cities.
2. Greek period.
3. Roman Empire period.
4. Medieval period.

b. Contemporary Cities and the Evolution of the South African City

1. Pre-colonial societies, space and settlement patterns in South Africa.
2. The Renaissance City
3. The Industrial City and the Garden City response

4. Early 20th Century developments, The New Town Movement
5. African Cities

PLDS121 Planning Design 1B Semester 2 (Examination)

a. Site Analysis:

1. Understanding the physical and socio-economic context.
2. Landscape analysis - geographical form and ecological constraints.
3. Theoretical approaches and methodologies: SWOT analysis and Lynch analysis.
4. How does analysis lead to design? - Development of a proposed concept and plan.

b. Layout and Design:

1. Impact of infrastructure services on the layout;
2. Housing typologies: housing densities calculations in relation to the given study area.
3. Land use planning design standards in the design process;
4. Components of a town planning layout and sub divisional plan.
5. Appropriate land use management controls related to proposed development.

c. AutoCAD:

1. Dimension using variable options and settings;
2. Create blocks and understand their ability in creating a personalised library;
3. Draw to scale and understand the benefits and calculations associated with different scales used in a single CAD generated drawing;
4. Calculate areas and understands the options available which relate to budget, and
5. Export/import data files from different software packages and have knowledge of complications involved in their conversion.

Prerequisite: Planning Design 1A (PLDS111), Site Surveying 1 (SSRV101)

UPTP101 Urban Planning Theory and Practice 1 Semester 2 (Examination)

1. Introduction to the development of planning as a discipline and profession and associated areas of practice and theories
2. Introduction to theories of planning and planning processes
3. Introduction to the definitions of planning and planning thought
4. Introduction to procedural and substantive planning theory and practice
5. Introduction to settlement planning and urbanisation post World War 2, the roots of contemporary planning practices and theories
6. The planning process as a response to social, political, physical and economic factors.
7. Settlement history in South Africa: the influences of government, markets in South Africa

Prerequisite: Settlement History 1 (STHS101)

CMCL101 Communication Literacy Semester 2 (Continuous Assessment)

1. Express ideas in a clear, organised and effective manner verbally, written and graphic representation.
2. Evaluate documents and reports related to the disciplines of architecture, construction studies and urban and regional planning.
3. Understand the ethics of acknowledging the sources to knowledge and be able to apply the

DUT Harvard Reference Style to written documents.
4. Apply appropriate technology in order to:
a. Create, edit and enhance standard documents using Microsoft Word and write effective, correctly formatted reports.
b. Create effective basic Microsoft Office PowerPoint Presentations
Prerequisite: Academic Literacy (ACDL101)

CSTN101 Cornerstone 101 Semester 2 (Continuous Assessment)
1. Identify and question particular constructions about themselves and others in the context of a diverse society.
2. Develop communication practices appropriate to higher education.
3. Demonstrate values of respect, accountability and responsibility in relation to society and environment.

SERS101 Sustainable Earth Studies Semester 2 (Continuous Assessment)
1. Explain the holistic nature of the biosphere concept describing the unique position and significance of the earth as a planet in the universe;
2. Discuss how the earth is mapped with respect to a range of economic and environmental applications;
3. Describe key physical features that shape the global and local environment and their impact on human behaviour; and,
4. Explain and recognise the significance of biodiversity and the functioning of healthy ecosystems
5. Relate environmental sustainability to his/her personal and professional life

PLDS211 Planning Design 11A Semester 3 (Continuous Assessment)
a. Context and Analysis:
1. Overview of spatial planning 20th and 21st century concepts.
2. Spatial planning concepts within a metropolitan context: such as nodes, corridors, as found in the Compact City approach.
3. Elements of city form.
b. Urban Design:
1. Introduction to urban design.
2. Urban design principles and tools - such as traffic calming, design of hard and soft open spaces, articulation of sub-divisional, road and parking layout systems.
3. Design principles that aim to achieve sustainable environments.
4. Urban morphology analysis at neighbourhood scale.
5. Performance analysis of public and private spaces and urban design as a design response to intervening in these spaces.
6. Introduction to planning standards and guidelines to a range of contexts, including calculating the threshold and range to sustain the use of facilities.
7. Urban design implications of transportation, infrastructure services and social facilities.
Prerequisite: Planning Design 1B (PLDS121)

UPTH201 Urban Planning Theory 11 Semester 3 (Examination)

1. Introduction to human geography concepts.
2. Urbanisation and settlement theories.
3. Introduction to transport planning.
4. Housing and planning.

Prerequisite: Urban Planning Theory and Practice 1 (UPTP101)

MPPM101 Management Principles and Project Management Semester 3 (Examination)

a . Management Principles:

1. The nature of management, evolution of management theory, strategic planning, problem solving and decision making, organizing and delegating, managing diversity, leadership, groups and teams in the organization, motivation, ethics, corporate social responsibility and corporate governance.

b. Project Management

1. Components of the project management body of knowledge, methodology, typical project components, specifically budgets & time frames [Gannt chart, Excel budget, PERT chart].
2. Components of a typical planning project proposal.
3. Logical Framework as a management system and as a project proposal writing tool.
4. Housing project management, specifically project preparation and analysis of a detailed housing project cycle

RMDS201 Research Methods 1 Semester 3 (Examination)

1. Types of research and the research question
2. Data Collection
3. Data Presentation and Reports
4. Qualitative Research
5. Documents as Sources of Data
6. Data Analysis Qualitative and Quantitative
7. Typical Data Collection in Town and Regional Planning

Prerequisite: Statistics for the Built Environment (STBE101)

IPLW101 Introduction to Principles of Law Semester 3 (Examination)

1. Constitution of South Africa
2. Structure of current South African law
3. Sources of South African law: Roman-Dutch, English, case law and common law
4. The State: Parliament, Government and Judiciary
5. Para-state institutions and the built environment
6. South African legislative process: green and white papers, Bills and Acts
7. Land ownership, land reform and the built environment

GENV101 The Global Environment Semester 3 (Continuous Assessment)

1. Differentiate between various types of environmental pollution and its impact (social, economic and personal)
2. Describe the social, economic and environmental impact of human population growth
3. Explain the consequences of climate change on human health, natural resources and biodiversity
4. Identify the inter-relationships between sustainable development, social responsibility, economic development and environmental protection.

PLDS221 Planning Design 11B Semester 4 (Examination)

a. Site Analysis:

1. A range of site analysis approaches and methodologies will be applied in order to spatially analyse an area and inform the development of a concept and proposed development.

b. Layout and design for residential development:

1. Transportation, infrastructure services to planning layouts;
2. Housing typologies - implications for layout design and densities to planning layouts;
3. Land use planning design standards, land use allocations and management controls in planning layout design;
4. Required components for a town planning layout and sub divisional plan.

c. Industrial/commercial/mixed-use design:

1. Industrial/commercial/mixed-use land use and design performance considerations to site development.
2. Retail/ shopping hierarchy concepts – implications for site development, including informal markets.
3. Key concepts and design considerations related to mixed- use and corridor developments.
4. Required components of a sub divisional plan for a range of land uses.

Prerequisite: Planning Design 11A ((PLDS211)

EVMT101 Environmental Management and Techniques Semester 4 (Continuous Assessment)

1. Environmental planning & management (EPM) action at various scales: from global to regional to national to sub-regional to urban to local neighbourhoods & to site specific.
2. Governmental & non-governmental approaches to EPM.
3. How to use the tools & techniques of EPM: Strategic Environmental Assessment (SEA), Environmental Auditing (EA), Environmental Management Systems (EMS), Environmental Impact Assessment (EIA), Environmental Management Plan (EMP).

Prerequisite: Management Principles and Project Management (MPPM101)

RDVP101 Regional Development and Planning Semester 4 (Examination)

1. Regional Planning concepts.
2. Context of development planning and regional planning, and approaches to development planning.
3. Regional Planning theory.
4. Sustainable regional development.
5. Regional Planning in South Africa.
6. Rural and agrarian development.

Prerequisite: Urban Planning Theory 11 (UPTH201)

GISY101 Geographic Information Systems 1 Semester 4 (Continuous Assessment)

1. Demonstrate understanding of the theoretical concepts underlying the software.
2. Capture or convert data for use in analysis.
3. Analyse data by establishing trends, patterns, associations & relationships amongst different data sets.
4. Present data in a range of ways that makes the information understandable & meaningful to the user.

Prerequisite: Planning Design 11A (PLDS211)

ECBE101 Economics for the Built Environment Semester 4 (Examination)

a. Introduction to the basic principles of micro economic theories:
1. Free Market theory
2. Welfare economic theory
3. Keynesian economic theory
4. Marxist theory

b. Key economic concepts and themes and application to the built environment.
c. Key macro-economic concepts and application to the built environment:
1. Analysis of different types of markets / economic systems.
2. Meanings and views of development – competing paradigms.
3. Economic structures and financial flows, national income accounting, economic and social indicators of growth and development, poverty, the role of the state and public finance, labour economics and labour markets, monetary and fiscal policy, inflation and stagflation.
4. The broader social consequences of economic decision making for society.

Prerequisite: Urban Planning Theory 11 (UPTH201)

SSCY101 Sociology and Society Semester 4 (Examination)

a. Perspectives on Sociology
1. An introduction to the theoretical and conceptual foundations of Sociology.
2. Sociology as a science and a social science.
3. Society and Human Action, Industrialization and Urbanism.

b. Culture and Society
1. Concept of culture and society, norms and values, diversity, ideology, power.
2. Types of Societies pre-modern (Hunting and gathering, pastoral, agrarian) traditional Industrial with first, second and third worlds.

c. Gender and Sexuality
1. Gender socialization.
2. Patriarchy, power and production.
d. Stratification and Class Structure
1. Systems of social stratification.
2. Theory of stratification (Marx, Weber).
3. Poverty and inequality.
e. Globalization
1. Changes in formation of the state, changes in the production and interdependence of the World Society
2. Economic consequences of colonialization.
3. Transnational Corporations.
4. International Economic integration.
5. Examination of the process of globalisation with respect to the South African context.

Prerequisite: The Global Environment (GENV101)

FRST101 French for Sciences and Technology I (Continuous Assessment) (Elective)

1. Apply basic French language skills and competencies with focus on SET.
2. Interact in French for professional activities (do a resume, a professional interview, a meeting).
3. Produce basic written texts in French with focus on SET.
4. Pursue introduction to French and francophone culture.

MNST101 Mandarin for Sciences and Technology I (Continuous Assessment) (Elective)

1. Apply basic Chinese language skills and competencies with focus on SET.
2. Produce simple sentence structures.
3. Provide simple descriptions.
4. Exchange some basic information.
5. Interact in Mandarin for professional activities (do a resume, professional interview, a meeting).
6. Produce basic written texts in Chinese with focus on SET.
7. Gain introductory Chinese cultural knowledge and acquire preliminary cross-cultural awareness and international perspectives.

PLDS311 Planning Design 111A Semester 5 (Continuous Assessment)

a. Spatial planning - theories and policies:

Exposure to current theories, policies and legislation that impact on spatial planning at a national, municipal, metropolitan and sub-metropolitan scale. The policy context – at national, provincial and municipal level.

b. Positively performing environments project:

Theoretical constructs and policies related to the compact city paradigm to given study areas. The focus is on mixed land use activity corridors and positively performing environments, metropolitan spatial concepts and spatial development frameworks, and emphasis on movement systems and land use inter-relationships.
Theoretical constructs include: compact city, new urbanism, mixed-use corridor development, spatial frameworks at metropolitan and sub-metropolitan scale. The project extends the learner's design skills, with the focus on analytical and concept diagrams, and emphasises the theoretical underpinnings of spatial planning and design concepts.
Prerequisite: Planning Design 11B (PLDS211)

PLLW101 Planning Law Semester 5 (Examination)
a. Applications related to the preparation and approval of plans
1. Integrated Development Plans
2. Spatial Development Frameworks
3. Land Use Schemes
b. Applications related to changes in land use, activity, intensity and development rights
1. Scheme amendments and rezoning
2. Special Consent
3. Develop Applications
4. Enforcement.
c. Applications related to township establishment, subdivision and land ownership
1. Consolations and subdivisions
2. Removal of Restrictive Conditions
3. Act 70 of 1970
d. Process of appeals against decisions
1. Municipal Systems Act and Appeals
2. Spatial Planning and Land Use Management Act No 16 of 2013 and Appeals
3. Planning and Development Act No 6 of 2008 and Appeals
e. Land Reform Legislation
f. Environmental Legislation
g. Housing Legislation
Prerequisite: Introduction to Principles of Law ((IPLW101)

TPLI101 Transportation Planning and Infrastructure Semester 5 (Examination)
1. Theories, processes and methods of transport and infrastructure planning.
2. Traffic and Transport Surveys.
3. Transport planning.
4. Infrastructure, urban planning and cities.
Prerequisite: Regional Development and Planning (RDVP101)

RMDS201 Research Methods 11 Semester 5 (Continuous Assessment)
1. Types of Research
2. Research question and the research hypothesis

3. Review of the literature
4. Sampling Plan
5. The research proposal
6. The Ethical Review

Prerequisite: Research Methods I (RMDS101)

GISY201 Geographic Information Systems II Semester 5 (Continuous Assessment)

a. GIS Project Management Steps (GPMS)
1. Project & Work Flow Charts
2. Creating secondary data from primary data
3. Analysis
4. Presentation/Visualization

b. Site suitability analysis
1. Case studies applying GPMS

c. Opportunities & constraints Analysis
1. Site – regional case studies applying GPMS

d. Pattern Analysis
1. Site – regional case studies applying GPMS.

Prerequisite: Geographic Information Systems I (GISY101)

ALEB101 Applied Land Economics for the Built Environment Semester 5 (Examination)

1. Introduction to the basic principles of land economics:

Land use economics and impacts on urban and rural land markets, Location decisions of firms supply and demand and land competition, Economic characteristics of real estate markets, Informal land markets.

2. Key concepts and themes and application to the built environment:

Planning and social welfare economics, Externalities – positive / negative, Public goods, Imperfect information / imperfect markets, Pareto efficiency. Settlement theory and modelling – Christaller, Loch, Berry, Friedmann

Prerequisite: Economics for the Built Environment (ECBE101)

PLDS321 Planning Design IIIB Semester 6 (Examination)

1. Feasibility Layout: quantification of residential, commercial uses and floor area yields for various land uses, responsiveness to context and design concepts.
2. Local Area Plan/Precinct Plan: contextualise and develop a spatial framework plan, reports and plans using existing policy documents and sector plans to test proposed concept plan, planning strategy, proposed land uses, densities, transport routes, etc.
3. Develop a land use management framework in plan and report format.

Prerequisite: Planning Design IIB (PLDS221)

PSCR101 Planning Sustainable Cities and Regions Semester 6 (Examination)

1. Principles, methods and planning practices for developing sustainable cities and regions.
2. Establishing the links between economic, social and environmental aspects in relation to sustainable urban and regional development.
3. Sustainable management principles, methods and practices, and models.

Prerequisite: Transportation Planning and Infrastructure (TPLI101)

RPRO101 Research Project Semester 6 (Continuous Assessment)

The student conducts a research project which includes: a title, an abstract, an introduction, definition of the problem, identifying the research question, a literature review, motivates the need for the research, explains the aims of the research, the methodology, ethical considerations, details of sample and participants, describes data collection and instruments, analyses results, discusses results and makes conclusions and recommendations

Prerequisite: Research Methods II (RMDS201)

PMPL101 Public Management and Planning Semester 6 (Examination)

1. Overview of municipal management.
2. Municipal management as a strategic planning: context, purpose and challenges of municipal planning.
3. The statutory and regulatory framework of operationalising municipal management in South Africa.
4. Integrated Development Planning and municipal strategic planning and management: key components of plan and process.
5. Components of municipal management: service delivery, public participation, performance, resource, financial, supply chain and risk management.
6. Case study research.

Prerequisite: Environment Management and Techniques (EVMT101)

RSJS101 Restorative Justice Semester 6 (Continuous Assessment) (Elective)

1. Relevance of a restorative approach in the South African context.
2. Aspects of legislation and policy.
3. Restorative philosophy and practice in indigenous communities.
4. Factors in crime, violence and conflict in modern societies.
5. The social control window.
6. Restoration versus retribution.
7. Shaming, integration, healing and forgiveness.
8. The restorative practice continuum.
9. Formal and informal restorative conferencing.

FRST201 French for Sciences and Technology II (Continuous Assessment) (Elective)

1. Pragmatic components.
2. Linguistic components.
3. Cultural components.

Prerequisite: French for Sciences and Technology I (FRST101)

MNST201 Mandarin for Sciences and Technology II (Continuous Assessment) (Elective)

1. Pragmatic components.
2. Linguistic components.
3. Cultural components.

Prerequisite: Mandarin for Sciences and Technology I (MNST101)

6.3 Unsatisfactory Academic Progress

The above rules of progression are to be read in combination with G 17 (1) and G23B of the General Handbook in determining *Unsatisfactory Academic Progress.*

6.3.1 A student who fails a module twice shall be found to have made unsatisfactory academic progress.

6.3.2 A first year student who fails three (3) or more modules with a final mark of less than forty percent (40%) in these modules, will not be permitted to re-register in the programme.

6.4 ASSESSMENT RULES FOR BBURP1

6.1 The final mark shall be made up of the average of assessments, both practical and theoretical, during each module of the programme. There are a combination of final examinations and continuous assessments in the various modules in the programme. The details pertaining to assessment for each module offering are contained in the module Study Guides.

6.2 Duly Performed / Course Mark / Examination Mark

The minimum Duly Performed (DP) semester mark for examination is 40%

The final mark is made up of 50% Course Mark and 50% Examination Mark, unless otherwise indicated (e.g. continuous assessment).

Classifying Student Performance:
(This refers to the composite evaluation result for each module.)

75% and above:	Distinction (Refer rule G15)
50% and above:	Pass
45% - 49%:	Eligible for re-assessment
44% and less:	Fail

6.3 Rules G 13 (3) (a) & (b) shall be applied *mutatis mutandis* to students who have missed an examination assessment.

7. PROGRAMME STRUCTURE BACHELOR OF THE BUILT ENVIRONMENT HONOURS IN URBAN AND REGIONAL PLANNING (BHURP1)

The programme is structured according to modules as referred to in Table 1 below.

Bachelor of The Built Environment Honours In Urban And Regional Planning (BHURP1)								
Semester	**Name of Module**	**Module Code**	**Study Level**	**NQF Level**	**Module Credits**	**C/E***	**Pre-Req.**	**Exam****
1	Spatial Planning and Environment 4	SPLE401	1	8	32	C	None	Yes
	Planning Theory and Management 4	PLTM401	1	8	32	C	None	Yes
	Research Proposal 4A	RPR0401	1	8	8	C	None	No
2	Geographic Information Systems 4	GISY401	1	8	16	C	Spatial Planning and Environment 4 Planning Theory and Management 4	No
	Research Project 4B	RPRO402	1	8	32	C	Research Project Proposal 4A	No
	TOTAL credits				120			

All modules listed are compulsory in order to qualify in this Programme.

Note: The qualification structure is made up of 120 credits.
*C = Compulsory; E = Elective; ** Subjects without NO for exams are "Continuously Evaluated"

7.1 Expected graduate outcomes

This qualification is intended for persons who will make a contribution, through research, to understanding the application and evaluation of existing knowledge in a specialized area of urban and regional planning. They will also demonstrate a high level of overall knowledge in that area ranging from fundamental concepts to

advanced theoretical or applied knowledge.

1. Able to apply knowledge of research theory and techniques to address the problems arising in cities and regions in contemporary South African society.
2. Apply planning theories and a knowledge of planning histories to the design, management and implementation of planning to bring about positive change and societal benefits within human settlements.
3. Apply, engage and reflect on complex issues and legislative contexts in order to inform processes to initiate, manage and control land use changes in the natural and built environment.
4. Apply communication skills in retrieving and disseminating information.
5. Able to identify and respond to planning issues within the ethical boundaries of the planning profession, which encompasses an orientation to social justice, an appreciation of diversity and complexity of cultures and views, and the promotion of efficient resource use and sustainable development.
6. Able to analyse the given context, apply policy and legislation requirements and integrated planning principles in complex planning environments, as these pertain to strategic planning, management and project management across governance scales.
7. Apply scoping and site surveying techniques and appropriate technologies to analyse sites and solve problems.
8. Able to assist in optimizing the sustainable use of resources within the built and natural environment.
9. Apply professional conduct and ethical principles in undertaking any planning work.

Duration of Programme
The duration of the programme is 1 year of full-time study.

Selection Procedure
Application for the Honours programme is open to students who meet the requirements as per the G Rules above. Students are encouraged to contact the Honours Co-ordinator either telephonically or by email via the Secretary. Prospective students are required to submit a written motivation for undertaking the Honours along with a copy of their academic record by the end of November of the previous year.

7.2 Promotion to a Higher Level and Pre-requisites / Rules of Progression

The following are the rules of combination for the programme. These rules must be read with reference to the G16 Rule in the General Handbook for Students.

8.1 Refer to Rule G14 (1) for minimum pass mark.

8.2 In order to advance to the next semester of study the student must have met the pre-requisites for any module.

7.3 Subject Content

NB: Students to read this section in conjunction with the relevant study guides.

Brief outline of Syllabi

Bachelor of The Built Environment Honours In Urban And Regional Planning (BHURP1)

SPLE401 Spatial Planning and Environment 4 (Examination)

Spatial Development Framework/Plan (at Local Area Plan level):
Within a given study area, the student contextualises, designs and develops a spatial framework plan, consisting of a report and plans.
The student is to develop a land use management framework – in plan and report format - that optimizes the development potential of the study area.
The project is focused on the development of a strategic framework that contextualises the study area in terms of existing policy documents, such as an Integrated Development Plan and sector plans, and in which the student tests these guiding documents, develops a concept plan in response to a desired sustainable development.
Feasibility Study:
In order to develop the spatial framework, the student is required to produce a feasibility study on a given site that proposes a range of land uses, land budget and the yields for the various land uses. The feasibility layout should demonstrate responsiveness to its context and consist of enough detail, specifically environmental impacts.

PLTM401 Planning Theory and Management 4 (Examination)

1. Planning theory: What is planning, planning history and planning theory. What are the philosophies, theories and methods of planning? What is the justification for planning, and what has influenced and shaped what do planners do? The influences of modernism, the modern state, power relations on planning practice in Africa.

2. City Administration and Management: Using case studies to demonstrate the link between theory and practice. Exploring current challenges facing cities of the global south and strategies employed by city administrations to tackle them - what works, what doesn't and what's promising?

RPR0401 Research Proposal 4A (Continuous Evaluation)

Planning for Research: Choosing a research topic
Planning a research project: Reviewing the literature
Research Design: Research Strategies; Choosing the research design
Research Methods: Choosing methods; Qualitative vs Quantitative; Mixed methods

Sampling: Approaches to sampling; Choosing a sampling approach
Research Proposals: What is a research proposal and what does it do? Structure of Research Proposal
Data Collection: Collecting Data; Data Collecting Skills
Data Analysis: Working with data, Statistical Analysis; Thematic analysis
Data Presentation and Reports: The importance of an audience; Writing for Research: reports; Data Presentation; Dissemination and further research

GISY401 Geographic Information Systems 4 (Continuous Evaluation)

SECTION 1: Data Capture

- Hardcopy capture - scan and digitize from documents, plans and diagrams
- Electronic capture - on screen digitising, remote sensing (aerials, satellite images)

SECTION 2: Editing

- Editing basics
- Creating new features
- Editing topology

SECTION 3: Advanced Geo-processing

- Geo statistics
- Gis-based Exploratory Spatial Analysis (ESDA)
- Process Flow Modelling

SECTION 4: Advanced Visualization

- Geographic Simulation
- 3-D imagery
- Fly-by and Animation
- Virtual Reality

SECTION 5: Comprehensive Application in a Project

- Application of capture, editing, analysis and presentation skills to a project

Pre-requisites: Spatial Planning and Environment 4, Planning Theory and Management 4

RPRO402 Research Project 4B (Research Project)

This is a research module, the content for which was covered in the Research Project Proposal 4A Module, and in which the student is expected to formulate and synthesise a research project report.

Pre-requisites: Spatial Planning and Environment 4, Planning Theory and Management 4, Research Proposal 4A

7.4 Unsatisfactory Academic Progress

The above rules of progression are to be read in combination with G 17 (1) and G23B of the General Handbook in determining *Unsatisfactory Academic Progress.*

A student who fails three (3) or more modules with a final mark of less than forty percent (40%) in these modules, will not be permitted to re-register in the programme.

7.5 Assessment rules, examination and research project

7.5.1 The minimum semester mark for examination eligibility is 40%.

7.5.2 Notwithstanding Rule G 12 (9), the semester mark for all examined subjects counts 50% towards the final result.

7.5.3 Rules G 13 (3) (a) & (b) shall be applied mutatis mutandis to students who have missed an assessment.

7.5.4 Research Project: The application, format and examining of the Research Project prescribed as part of the whole of the instructional programme, shall be in accordance with Rule G26 and in accordance with the guidelines in the DUT Post-Graduate Student's Guide.

8. PROGRAMME STRUCTURE MASTER DEGREE OF THE BUILT ENVIRONMENT (MBTRP1)

This 180 credit qualification at NQF Level 9 is intended for persons who will make a contribution, through research, to understanding the application and evaluation of existing knowledge in a specialized area of urban and regional planning. They will also demonstrate a high level of overall knowledge in that area ranging from fundamental concepts to advanced theoretical or applied knowledge. This is a one year research degree.

The G-rules for Masters as contained in Rules G24, G25 and G26 of the DUT General Handbook apply, as does the DUT Postgraduate Student Guide.

Selection Procedure

Application for the Masters programme is open to students who meet the requirements as per the G Rules above. Students are encouraged to contact the Masters Co-ordinator either telephonically (+27 31 3732673) or by email via the Secretary. Prospective students are required to submit a written motivation for undertaking the Masters, and are to submit a 500 word abstract on their intended research area to the Masters Co-ordinator by November for entry for the following year.

Selection of students is made by a panel of senior academic staff, using a ranking system. The ranking system includes the following criteria: relevance of the existing qualification; academic record; professional experience; research proposal; and motivation for admission, and is evaluated using a ranking of: highly relevant, relevant, average, partly relevant and mismatch. Students will be informed of the outcome of their application by the end of January of the following year.

Once selected for the Masters programme, all students will register as per the DUT Postgraduate Student Guide. All students are required to undertake a research methodology module, which includes the refining of the research proposal and acceptance thereof by the Faculty Research Committee before full registration can take place as per the G24 (2) rules.

Registration

Dates of registration will be according to the University calendar as applicable to higher degree students and Rule G25(2)(c).

Interruption of Studies

If, for whatever reason, a student does not register consecutively for every year of the programme, his/ her existing registration contract with the University shall cease unless the student has applied to the Department for permission to interrupt studies in accordance with the guidelines in the Post-Graduate Student's Guide. Where such permission has not been given, re-registration will be at the discretion of the University and, if permitted, will be in accordance with the rules applicable at that time.

9. PROGRAMME DOCTOR OF PHILISOPHY IN THE BUILT ENVIRONMENT

This 360 credit qualification at NQF Level 10 is intended for persons who will make a contribution, to the generation of significant and original knowledge to the benefit of the country, industry and the built environment professions. Individuals completing this programme will develop advanced fundamental, theoretical or applied knowledge in a specialised area.

The primary purpose of the Doctoral Degree is to develop an individual, in a chosen Built Environment field, to be able to contribute independently to the development of significant and original knowledge at an advanced level. The defining characteristic of this qualification is that the candidate is required to demonstrate high level research capability and to make a significant and original academic contribution at the frontiers of a discipline or field. The work must be of a quality to satisfy peer review and merit publication.

The research problem, its justification, process and outcome are reported in a thesis, which complies with the generally accepted norms for research at this level.

The G-rules for Doctoral Degree as contained in Rules G25 and G26 of the DUT General Handbook apply, as does the DUT Postgraduate Student Guide.

Selection Procedure

Application for the Doctoral programme is open to students who meet the requirements as per the G Rules above. Students are encouraged to contact the

Masters Co-ordinator either telephonically (+27 31 3732673) or by email via the Secretary.

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