POSTGRADUATE DIPLOMA IN CROP SCIENCES

PGDip (Crop Sciences) - NQF Level 8 (120 credits)

Qualification code: PDCP22

SAQA ID: 110604, CHE NUMBER: H/H16/E093CAN

Campus where offered: Pretoria Campus

REMARKS

a. *Admission requirement(s):*
An Advanced Diploma in Crop Sciences, **or** a Baccalaureus Technologiae: Agriculture: Crop Production, **or** a relevant bachelor's degree, **or** an equivalent qualification at NQF Level 7. Preference will be given to candidates who obtained an average of 60% in the previous qualification.

Holders of any other equivalent South African or international qualification may also be considered, see Chapter 1 of Students' Rules and Regulations.

b. *Selection criteria:*
Admission is subject to selection. Prospective students will be evaluated based on the marks obtained in the previous qualification and/or work experience.

All applicants received by the published due dates will be ranked. After consideration of the Departmental Student Enrolment Plan (SEP), only the top performing applicants will be selected. A waiting list consisting of the remainder of the applicants will provide an opportunity for applicants to fill places created by accepted students failing to meet the enrolment dates. Applicants will be informed of their status per official letter from the Office of the Registrar, alternatively, they can check their application status on the TUT website, www.tut.ac.za.

c. *Recognition of Prior Learning (RPL), equivalence and status:*
See Chapter 30 of Students' Rules and Regulations.

d. *Intake for the qualification:*
January only.

e. *Presentation:*
Block-mode classes offered over a period of one year.

f. *Minimum duration:*
A minimum of one or two years (depending on the programme offering).

g. *Exclusion and readmission:*
See Chapter 2 of Students' Rules and Regulations.

h. *Re-registration:*
A student may re-register for the module Postgraduate Research Project only with the permission of the Head of the Department. The purpose of the re-registration is to provide students with an opportunity to complete the project only, and not to redo it, should they fail the module.

CURRICULUM

ATTENDANCE

CODE	MODULE	NQF-L	CREDIT
PCP108G	Postgraduate Research Project	(8)	(24)
PCP118R	Postgraduate Research Project (Re-registration) (first-semester module, see paragraph h)	(8)	(0)

FIRST SEMESTER

BIT118G	Biometrics	(8)	(12)
RTE118G	Research Methodology and Ethics	(8)	(12)

plus two of the following year modules:

AGR108G	Special Topics in Agronomy	(8)	(36)
CPT108G	Special Topics in Crop Protection	(8)	(36)
FVC108G	Special Topics in Fruit and Vegetable Crops	(8)	(36)
PHA108G	Special Topics in Post-Harvest Technology	(8)	(36)
SIC108G	Special Topics in Soil and Irrigation Science	(8)	(36)

TOTAL CREDITS FOR THE QUALIFICATION: **120**

MODULE INFORMATION (OVERVIEW OF SYLLABUS)

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

B

BIOMETRICS (BIT118G) **1 X 3-HOUR PAPER**

(Module custodian: Department of Crop Sciences)

This module prepares the student to function effectively in a scientific environment and apply the key terms and techniques in the field of statistics (descriptive statistics and statistical inference). It will provide the student with integrated knowledge as well as an ability to apply and evaluate the key terms, concepts, facts, principles, rules, and theories of biometrics as applied to the related fields of study in agricultural sciences. The module will further provide the student with competencies such as, but not limited to, review, design, analysis, writing, and reporting. (Total tuition time: 120 hours)

P

POSTGRADUATE RESEARCH PROJECT (PCP108G, PCP118R) **PROJECT ASSESSMENT**

(Module custodian: Department of Crop Sciences)

This module will provide the student with the ability to perform a pilot project on a small scale to prepare the student for a full-scale research project when advancing to the Master of Agricultural Sciences: Identify and plan a research project, write a research proposal, do an oral presentation of proposal, execute a pilot study as planning for a Master's degree, write a final research report, and do an oral presentation of final report. (Total notional time: 240 hours)

R

RESEARCH METHODOLOGY AND ETHICS (RTE118G) **1 X 3-HOUR PAPER**

(Module custodian: Department of Crop Sciences)

This module is aimed at providing students with the knowledge, skills and applied competencies to engage in agricultural sciences research and be at the forefront of research in the field of agricultural sciences. The module thus focuses on the development of a critical understanding and the ability to reflect on the importance of research, the various research tools available to the agricultural sciences, research management, research ethics in agricultural sciences, research proposal writing, research approaches and procedures, evaluation of research data and the effective presentation of research to peers applying and using the appropriate rules, skills and technology. (Total notional time: 120 hours)

S

SPECIAL TOPICS IN AGRONOMY (AGR108G) **CONTINUOUS ASSESSMENT**

(Module custodian: Department of Crop Sciences)

This module will provide the student with knowledge, skills and applied competencies in areas such as, but not limited to: in-depth understanding on the characteristics of the production of varying field crops; crop husbandry techniques; identification and solving of complex challenges that are overwhelming in large-scale commercial production of field crops; and effective communication with peers in a variety of modes in the discourse of activities in agronomy. (Total notional time: 360 hours)

SPECIAL TOPICS IN CROP PROTECTION (CPT108G) **CONTINUOUS ASSESSMENT**

(Module custodian: Department of Crop Sciences)

This module will provide the student with knowledge, skills and applied competencies in areas such as, but not limited to: identification of pests, diseases and weeds; managing and utilising equipment and techniques used in plant pathology laboratories; proposing and designing innovative solutions to plant pathology problems; and effective communication with peers in a variety of modes in the discourse of activities in crop protection. (Total notional time: 360 hours)

SPECIAL TOPICS IN FRUIT AND VEGETABLE CROPS (FVC108G) **CONTINUOUS ASSESSMENT**

(Module custodian: Department of Crop Sciences)

This module will provide the student with knowledge, skills and applied competencies in areas such as, but not limited to: procedures and practices used in fruit and vegetable production research field trials and laboratory work; fruit and vegetable production problem assessment and situation analysis; propose and design innovative solutions to fruit and vegetable production problems; and effective communication with peers in a variety of modes in the discourse of activities in fruit and vegetable crops. (Total notional time: 360 hours)

SPECIAL TOPICS IN POST-HARVEST TECHNOLOGY (PHA108G) **CONTINUOUS ASSESSMENT**

(Module custodian: Department of Crop Sciences)

This module will provide the student with knowledge, skills and applied competencies in areas such as, but not limited to: technologies used in postharvest research; problem solving and decision making; propose innovative technologies to reduce food waste (fruit and vegetables); and effective communication with peers in a variety of modes in the discourse of activities in post-harvest technology. (Total notional time: 360 hours)

SPECIAL TOPICS IN SOIL AND IRRIGATION SCIENCE (SIC108G) **CONTINUOUS ASSESSMENT**

(Module custodian: Department of Crop Sciences)

This module will provide the student with knowledge, skills and applied competencies in areas such as, but not limited to: plant nutrition and soil fertility; irrigation; and effective communication with peers in a variety of modes in the discourse of activities in soil and irrigation science. (Total notional time: 360 hours)