

ADVANCED DIPLOMA IN CROP SCIENCES

Qualification code: ADCP20 - NQF Level 7 (120 credits)

SAQA ID: 108856, CHE NUMBER: H/H16/E071CAN

Campus where offered: Pretoria Campus

REMARKS

- a. *Admission requirement(s):*
A National Diploma or a Diploma in Crop Production, **or** A National Diploma: Agriculture: Commercial Mixed Farming or Crop Production or Development and Extension, **or** a Bachelor's Degree in Agriculture (Crop/Plant Production), **or** an equivalent qualification at NQF Level 6 with minimum of 360 credits.
- 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.
- Acceptance is subject to available capacity according to the Student Enrolment Plan (SEP). 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:*
Day classes.
- f. *Minimum duration:*
One year.
- g. *Exclusion and readmission:*
See Chapter 2 of Students' Rules and Regulations.

CURRICULUM

ATTENDANCE

| CODE | MODULE | NQF-L | CREDIT | PREREQUISITE MODULE(S) |
|---------|---------------------------|-------|--------|------------------------|
| AGB107V | Agribusiness | (7) | (24) | |
| AGR107V | Agronomy | (7) | (24) | |
| CPT107V | Crop Protection | (7) | (24) | |
| FVC107V | Fruit and Vegetable Crops | (7) | (24) | |

FIRST SEMESTER

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|---------|-----------------------------|-----|------|--|
| SIC117V | Soil and Irrigation Science | (7) | (12) | |
|---------|-----------------------------|-----|------|--|

SECOND SEMESTER

PHA117V Post-Harvest Technology (7) (12)

TOTAL CREDITS FOR THE QUALIFICATION: 120

MODULE INFORMATION (OVERVIEW OF SYLLABUS)

Please take note that for the 2020 academic year certain modules will be assessed as continuous assessment. Please contact the Academic Department for further information.

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. On 18 November 2019, the syllabus content was defined as follows:

A

AGRIBUSINESS (AGB107V) 1 X 3-HOUR PAPER
(Module custodian: Department of Crop Sciences)

The decision making process; Record keeping for farm management information; Financial statements, budgets and their analysis; Capital investment and time value of money; Approaches to study marketing; Marketing costs, margins, agricultural and food business strategies; Marketing alternatives and commodity futures market; Marketing board and policy in South Africa. (Total tuition time: ± 140 hours)

AGRONOMY (AGR107V) 1 X 3-HOUR PAPER
(Module custodian: Department of Crop Sciences)

Production plans; Crop physiology; Crop growth and phenological development; Crop husbandry; Fertilisation and irrigation scheduling; Crop grading; Crop insurance. (Total tuition time: ± 140 hours)

C

CROP PROTECTION (CPT107V) 1 X 3-HOUR PAPER
(Module custodian: Department of Crop Sciences)

Sample collection, isolation and purification; Identification of plant pathogens; Control schedule design and technology transfer; Weed identification and control; Insect identification techniques; Insect physiology related to pest control; Agro-chemicals and legislation; Control techniques and related matters. (Total tuition time: ± 140 hours)

F

FRUIT AND VEGETABLE CROPS (FVC107V) 1 X 3-HOUR PAPER
(Module custodian: Department of Crop Sciences)

Introduction to fruit and vegetable industries; Classification of fruit and vegetable crops; Identification and use of cultural practices; Alternative production systems; Studies of fruit and vegetable crop botany and ecology; Propagation and management of selected fruit and vegetable crops; Harvesting, packaging, storage and marketing. (Total tuition time: ± 140 hours)

P

POST-HARVEST TECHNOLOGY (PHA117V) 1 X 3-HOUR PAPER
(Module custodian: Department of Crop Sciences)

Fundamental knowledge of postharvest losses; Basic fruit and vegetable physiology and nutrition; Pre-harvest factors, maturity indices, and harvesting; Packhouse operation, precooling, and packaging; Ripening and degreening; Quality assurance and cold chain management; Refrigerated transport and retail shelf. (Total tuition time: ± 70 hours)

SOIL AND IRRIGATION SCIENCE (SIC117V)**1 X 3-HOUR PAPER***(Module custodian: Department of Crop Sciences)*

Mineral N in soils; Plant available P in soils; Exchangeable K in soils; Soil pH; Soil salinity; Soil water content and potential; Irrigation systems; Irrigation efficiency. (Total tuition time: ± 70 hours)