



# Cedara College of Agriculture

Agric  
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2024



KWAZULU-NATAL PROVINCE  
AGRICULTURE AND RURAL DEVELOPMENT  
REPUBLIC OF SOUTH AFRICA



**KWAZULU-NATAL PROVINCE**  
AGRICULTURE AND RURAL DEVELOPMENT  
REPUBLIC OF SOUTH AFRICA



**AGRICULTURAL SKILLS  
DEVELOPMENT UNIT (ASD)**

**OF**

**CEDARA COLLEGE**

**AGRICULTURAL SHORT  
COURSES  
2024 / 2025**

## **AGRICULTURAL SKILLS DEVELOPMENT SHORT COURSE PROGRAMME**

**ENQUIRIES:** College Reception: **033-355 9304**  
Alternative Contact No: **082 821 6045**  
Email: [shortcourses@cedara.ac.za](mailto:shortcourses@cedara.ac.za)

**VICE PRINCIPAL: ASD** Ms. Thuli Sithole  
Tel No: 033-355 9149  
Email: [Thuli.Nkwanyana@kzndard.gov.za](mailto:Thuli.Nkwanyana@kzndard.gov.za)

**WEB:** [www.kzndard.gov.za](http://www.kzndard.gov.za)

**APPLICATIONS:** [cedara.studentmanager.co.za/apply](http://cedara.studentmanager.co.za/apply)

**ASD OFFERS** Non - Accredited Training Program:

**Short courses** are specialized classes that aim to teach specific knowledge and competencies in a short amount of time.

**MORE DETAIL ON PURPOSE OF SHORT COURSE PROGRAMME ARE OUTLINED PER COURSE.**

## APPLICATION AND RESERVATION PROCEDURES:

- The medium of instruction will be in **English** (unless indicated otherwise)
- All reservations must be done via the online application **AT LEAST THREE MONTH** prior to course commencement. PLEASE NOTE: Applications will automatically close three months prior to the course.
- Persons without prior reservations and payments will be turned away.
- Applicants are advised to make direct deposits to Department of Agriculture and Rural Development Account **BUT ONLY** after confirmation from the coordinator.
- Fees include training and training material. Light meals will be provided.
- Please bring your own stationery for example (pen, notebook). Please take note that a course details will indicate if a course requires specific stationery.
- Reservations will **ONLY** be made for applicants who have completed the online application and full payment made, following the confirmation by coordinator.

## APPLICATION AND RESERVATION FOR KZNDARD EMPLOYEES

- Reservations by KZNDARD employees must be supported by their supervisor. A no-show for the learning program, will result in the employee being held accountable for the cost of the course.

Cancellation without a valid reason and provision of proof thereof, will not be acceptable. Training cost paid will be non-refundable.

**PLEASE DO NOT DEPOSIT MONEY INTO THE DEPARTMENTAL ACCOUNT THAT IS PROVIDED WITHOUT A CONFIRMATION FROM THE CO-ORDINATOR. NOTE THAT THE MONEY IS NON REFUNDABLE.**

## RULES AND GUIDELINES:

1. All courses start at 8:30 and finish at 16:00 on each day of the course. It is very important to be punctual.
2. A course may be cancelled if there are less than 10 learners.
3. A confirmation will be sent to clients before the course. If a confirmation has not been received, consider your application unsuccessful.
4. Confirmation of booking will be sent to the relevant people, upon request.
5. Please take note of the venue in advance.
6. A register will be circulated at random times during the course.
7. Please present your ID document at registration.
8. A certificate of competency will be issued to those courses participants who are found to be competent. Assessments are compulsory for all learners. If a course does not have assessment, and the full course is attended, a certificate of attendance will be issued.
9. Non-attendance at a course must be conveyed to the coordinator and facilitator of the course asap.
10. All cell phones must be switched off or on silent for the duration of the course.
11. Anyone arriving after 10am on the first day of the course will not be allowed to attend the course (*unless prior arrangements have been made for late arrival*).

**APPLICATIONS:** Please note: From 2024 only online applications will be accepted.  
If you are unable to apply online, please contact the co-ordinator on the contacts under enquiries.

On line application: [cedara.studentmanager.co.za/apply](https://cedara.studentmanager.co.za/apply)

**Banking Details:**

Name of Account: KwaZulu-Natal Provincial Government-Agriculture  
Name of Bank: Standard Bank  
Branch Code: 057525  
Account Number: 052106152  
Type of Account: Current Account  
**Reference No. 03026819 (very Important)**

**ACCOMMODATION:**

No accommodation is available at Cedara.

Please make arrangements for your own accommodation in advance.

**Accommodation in the vicinity of Cedara is available at:**

Sunbird	033 330 2350
New Hilton Hotel	033 343 3311
Oakhaven Guesthouse	033 343 1372
Abbots Cove B&B	033 343 1345
Gate Side Guesthouse	033 343 2036

## INDEX

SHORT COURSE NAME	DATE	MONTH	YEAR	PAGE
HYDROPONICS	15 - 19	APRIL	2024	09
CALF REARING	16 - 19	APRIL	2024	10
PEANUTS PROCESSING	01 - 03	MAY	2024	11
SOIL CLASSIFICATION	07 - 10	MAY	2024	12
BASIC BEEF PRODUCTION	14 - 15	MAY	2024	13
AGRICULTURAL COOPERATIVES MANAGEMENT	21 - 24	MAY	2024	14
FARM RECORD KEEPING	28 - 31	MAY	2024	15
ADVANCED SOIL FERTILITY	04 - 07	JUNE	2024	16
CALF REARING	12 - 14	JUNE	2024	17
MUSHROOM PRODUCTION	18 - 21	JUNE	2024	18
FARM BUSINESS MANAGEMENT(BASIC)	16 - 19	JULY	2024	19
MEAT PROCESSING	24 - 26	JULY	2024	20
GOAT PRODUCTION	07 - 09	AUGUST	2024	21
BIORESOURCE PROGRAMME (BASIC)	14 - 16	AUGUST	2024	22
MARKETING	21 - 23	AUGUST	2024	23
DIARY PROCESSING	28 - 30	AUGUST	2024	24
AGRICULTURAL EXTENSION	02 - 06	SEPTEMBER	2024	25
IRRIGATION	09 - 13	SEPTEMBER	2024	26
VEGETABLE PRODUCTION	16 - 20	SEPTEMBER	2024	27
BEE KEEPING	23 - 24	SEPTEMBER	2024	28
HOT IRON BRANDING	25	SEPTEMBER	2024	29
ENTREPRENEUSHIP	02 - 04	OCTOBER	2024	30
POULTRY PRODUCTION	08 - 11	OCTOBER	2024	31
BIORESOURCE PROGRAMME (ADVANCE)	16 - 18	OCTOBER	2024	32
FARM BUSINESS MANAGEMENT(ADVANCED)	22 - 25	OCTOBER	2024	33
AGRI-FINANCE	30 OCTOBER	01NOVEMBER	2024	34
JAM MANUFACTURING	06 - 08	NOVEMBER	2024	35
FORESTRY	11 - 15	NOVEMBER	2024	36
FRUITS AND VEGETABLE PROCESSING	20 - 22	NOVEMBER	2024	37
VELD MANAGEMENT	26 - 29	NOVEMBER	2024	38
POULTRY PRODUCTION	03 - 06	DECEMBER	2024	39
MUSHROOM PRODUCTION	04 - 07	FEBRUARY	2025	40
ORGANIC FARMING	18 - 21	FEBRUARY	2025	41
COMMERCIAL CROP PRODUCTION	03 - 07	MARCH	2025	42
RESEARCH PAPER WRITING	12 - 14	MARCH	2025	43
PIG PRODUCTION	24 - 28	MARCH	2025	44



## APPLICATION FORM

**APPLICATION DATE:** \_\_\_\_\_

1. COURSE NAME \_\_\_\_\_

TRAINING DATE: \_\_\_\_\_

2. COURSE NAME: \_\_\_\_\_

TRAINING DATE: \_\_\_\_\_

3. COURSE NAME \_\_\_\_\_

TRAINING DATE \_\_\_\_\_

Name and Surname of Applicant: \_\_\_\_\_

Occupation of Applicant (**Compulsory**) \_\_\_\_\_

How do you hope to apply the knowledge acquired? \_\_\_\_\_

What are your expectations from attending the training course? \_\_\_\_\_

Any special dietary requirements (indicate with a tick) Yes \_\_\_\_\_ No \_\_\_\_\_

If yes, Specify for catering purpose \_\_\_\_\_

Applicant's signature \_\_\_\_\_

Applicant's contact details: Cell No. \_\_\_\_\_

Email Address. \_\_\_\_\_

*(Below information is applicable to applicant employed by the Dept. of Agriculture and Rural Development).*

Supervisor's Name: \_\_\_\_\_

Supervisor's signature: \_\_\_\_\_

Contact telephone number & Cell No's \_\_\_\_\_

Email Address. \_\_\_\_\_



## Notes

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# HYDROPONICS

**DATE:** 15 - 19 APRIL 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 990.00

**APPLICATIONS:** LIMITED TO 20 APPLICANTS

This course covers the following aspects:

- ❖ Site selection
- ❖ Growing systems
- ❖ Fertilizers: elements, mixing, bulk tank vs A and B, precipitation etc.
- ❖ Growing media
- ❖ Fertigation controllers and irrigation scheduling
- ❖ Structures
- ❖ Temperature control
- ❖ Sanitation
- ❖ Safe use of chemicals
- ❖ Pests and diseases
- ❖ Gravel systems (suitable crops and management)
- ❖ Bag systems (suitable crops and management)
- ❖ Post-harvest handling of produce
- ❖ Marketing
- ❖ Economics

This course includes a full day of visits to hydroponics producers.



# CALF REARING

**DATE:** 16 - 19 APRIL 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 1800.00

**APPLICATION:** LIMITED TO 20 APPLICANTS

This course courses includes the following aspects.

- Preparation of housing
- Nutrition
- Milk replacer
- Management principles
- Marketing



# PEANUT PROCESSING

**DATE:** 01 - 03 MAY 2024

**VENUE:** VALUE ADDING HOUSE 42, CEDARA

**COST:** R 1125.00

**APPLICATION:** LIMITED TO 12 APPLICANTS

The course duration is 3 days that covers the theory and practical aspects of processing peanuts into various products.

The theory covers the following:

- Peanuts nutrition
- Food hygiene and safety

The practical involves making the following products:

- Peanut butter
- Baked products
- Sweets and confectioneries
- Smoothies / soup
- Cooked products
- Peanut butter
- Baked products
- Sweets and confectioneries
- Smoothies / soup
- Cooked products





# SOIL CLASSIFICATION AND LAND CAPABILITY

**DATE:** 07 - 10 MAY 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 1240.00

**APPLICATIONS:** LIMITED TO 20 APPLICANTS

Competency in English and Maths required. The course includes instruction on:

- \* Soil classification
- \* The properties of soil
- \* Agricultural potential of soil, including eco tope identification
- \* Land capability classification

Exercises include the identification of common soils, ecotype and potential assessment and land capability classification.





# BASIC BEEF PRODUCTION (DUNDEE)

**DATE:** 14 - 15 MAY 2024

**VENUE:** DUNDEE RESEARCH STATION

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 900.00

**APPLICATIONS:** LIMITED TO 30 APPLICANTS

More clarity can be made by phoning 034-2122479 or P O Box 626,  
Dundee, 3000.

The course will deal with the following aspects:

- Nutrition - veld management/fodder/supplementation.
- Herd health
- Breeding practices
- General herd management practices
- Condition scoring and its implications
- Marketing of cattle
- Animal identification
- Financial management in beef farming



# AGRICULTURAL CO-OPERATIVE MANAGEMENT

**DATE:** 21 - 24 MAY 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 800.00

**APPLICATIONS:** LIMITED TO 20 APPLICANTS

Co-operatives are autonomous organizations formed by individuals to address developmental needs within communities. This type of business form has been used world-wide by communities to address their developmental needs. In South Africa, co-operatives were promoted along the racial divide and within the Agricultural sector. Since the promulgation of the new Co-operative Act of 2005. The Department of Economic Development and Finance has developed a comprehensive co-operative promotion program that seeks to address these past disparities. This course aims at empowering co-operative members, extension staff and advisors on co-operative development by covering the following contents:

- General history of co-operatives
- Background of South African co-operatives
- What is a co-operative
- Co-operatives values
- Co-operatives principles
- Co-operatives as a business form
- Reasons for co-operative development
- How to form a co-operative?
- Causes of co-operative failure
- Co-operatives and rural development
- Co-operative development and incentives in KZN
- The role of the extension officer in co-operatives
- The role of the board of directors
- The management of co-operative





# FARM RECORD-KEEPING

**DATE:** 28 - 31 MAY 2024  
**VENUE:** CENTENARY COMPLEX, CEDARA  
**TIME:** REGISTRATION STARTS AT 08:30AM  
**COST:** R 1325.00  
**APPLICATIONS:** LIMITED TO 20 APPLICANTS

The aim of this course is to give participants the theoretical and practical knowledge required to keep the records needed to manage a farm business. The information acquired in this course will assist participants in better understanding the financial aspect of the *Farm Business Management Course*.

The course will consist of discussions and practical examples on the following topics: a) Planning a Farm Business; b) The Rationale & Use of Farm Records; c) The different types of Farm Records.

**Learners must be competent in English and Arithmetic (read, write and do basic calculations), and be competent in the use of a calculator (which must be brought to the course).**

It is strongly recommended that participants attend the Farm Record-Keeping course before registering for the Farm Business Management course.

**REMEMBER TO BRING YOUR CALCULATOR**



# ADVANCED SOIL FERTILITY

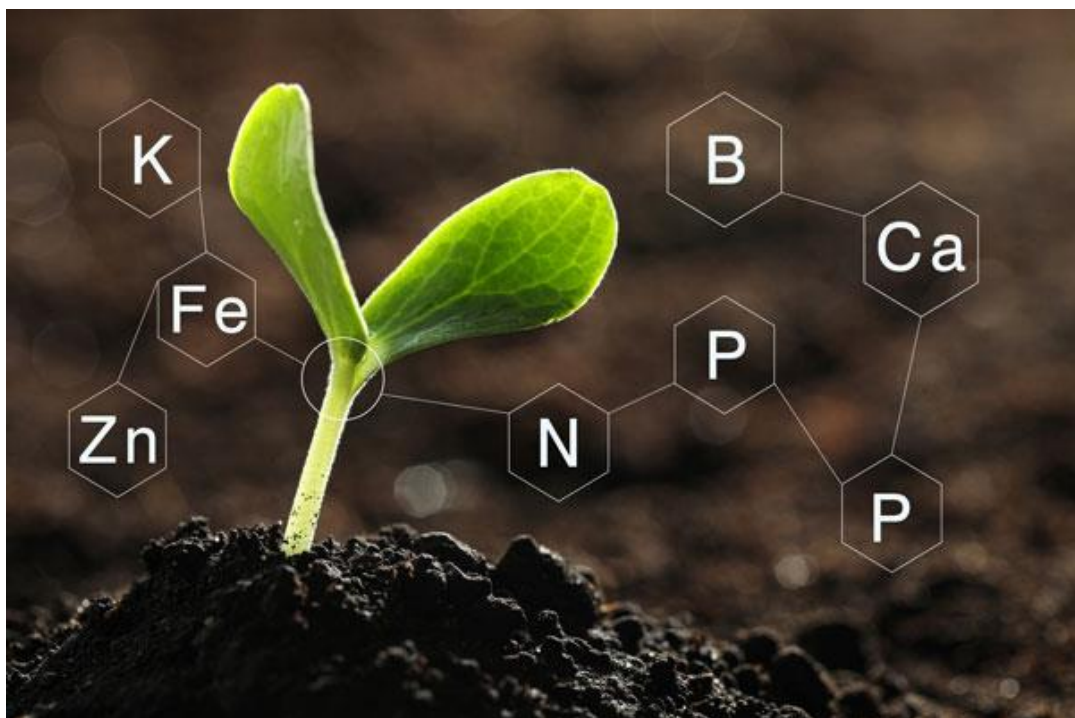
**DATE:** 04 - 07 JUNE 2024  
**VENUE:** CENTENARY COMPLEX, CEDARA  
**TIME:** REGISTRATION STARTS AT 08:30AM  
**COST:** R 1200.00  
**APPLICATIONS:** LIMITED TO 20 APPLICANTS

**A must for Farmers, Advisers, Extension Personnel and Students.** This three-day course covers some of the principles of soil fertility and plant nutrition that affect decision-making with respect to fertilization and

liming

- When does liming pay?
- Why should we test our soils?
- Why is nitrogen difficult to manage?
- How does phosphorus fixation affect my fertilization program?
- When should we use organic fertilizers?
- How do I interpret soil tests?
- How do I work out which fertilizers to buy?

We deal with these questions and many others in this intensive course, presented by scientists with a wealth of practical experience in soils and plant nutrition. The course involves talks, slide shows, calculation practical, and visits to field experiments.



# CALF REARING

**DATE:** 11 – 14 JUNE 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 1800.00

**APPLICATION:** LIMITED TO 20 APPLICANTS

This course courses includes the following aspects.

- Preparation of housing
- Nutrition
- Milk replacer
- Management principles
- Marketing



# MUSHROOM PRODUCTION

**DATE:** 18 - 21 JUNE 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 1315.00

**APPLICATION:** LIMITED TO 20 APPLICANTS

This course includes the following aspects for mushroom production.

Planting

Mushroom substrate production

Daily management to achieve optimum yield

Recording of temperature and humidity

- Land preparation and planting methods
- Mushroom substrate production
- Daily management to achieve optimum yield
- Recording of temperature and humidity
- Spawn and Mushroom pack production
- Pest control, common diseases
- Management (Basic Housekeeping)
- Harvesting, Weighing and Recording of data





# FARM BUSINESS MANAGEMENT (BASIC)

<b>DATE:</b>	<b>16 - 19 JULY 2024</b>
<b>VENUE:</b>	<b>CENTENARY COMPLEX, CEDARA</b>
<b>TIME:</b>	<b>REGISTRATION STARTS AT 08:30AM</b>
<b>COST:</b>	<b>R1270</b>
<b>APPLICATIONS:</b>	<b>LIMITED TO 20 APPLICANTS</b>

The aim of this course is to give participants the theoretical and practical knowledge needed to manage a farm business. Participants will be shown how to use the information (discussed in the Farm Record-Keeping Course) and techniques involved in the analysis, planning and control and a farm business.

The course will consist of discussions and practical examples on the following topics: (a) an overview of Farm Business Information; (b) calculation and interpretation of enterprise gross margins; (c) planning credit requirements; (d) partial budgets, whole farm budgets and cash-flow budgets; (e) machinery management and budgeting.

**Learners must be competent in English and Arithmetic (read, write and do basic calculations), and be competent in the use of a calculator (which must be brought to the course).**

It is strongly recommended that participants attend the Farm Record- Keeping course before attending the Farm Business Management course.

**PLEASE REMEMBER TO BRING A CALCULATOR**



# MEAT PROCESSING

**DATE:** 24 - 26 JULY 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 1850.00

**APPLICATIONS:** LIMITED TO 12 APPLICANTS

Practically orientated course, processing of meat into products such as:

- Boerewors
- Salami
- Russian sausages
- Polonies
- Biltong
- Dry Wors





# GOAT PRODUCTION

**DATE:** 07 - 09 AUGUST 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 725.00

**APPLICATIONS:** LIMITED TO 20 APPLICANTS

This course will deal with topical issues around the basic principles of goat production in KwaZulu-Natal:

- Nutrition of goats
- Veterinary aspects of goats
- Goat management
- Management at kidding
- Milk + Meat Production
- Handling facilities
- Problems - facing goat farmers
- Economics of Goat Production





# BIORESOURCE PROGRAMME (BASIC)

**DATE:** 14 - 16 AUGUST 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 950.00

**APPLICATIONS:** LIMITED TO 12 APPLICANTS

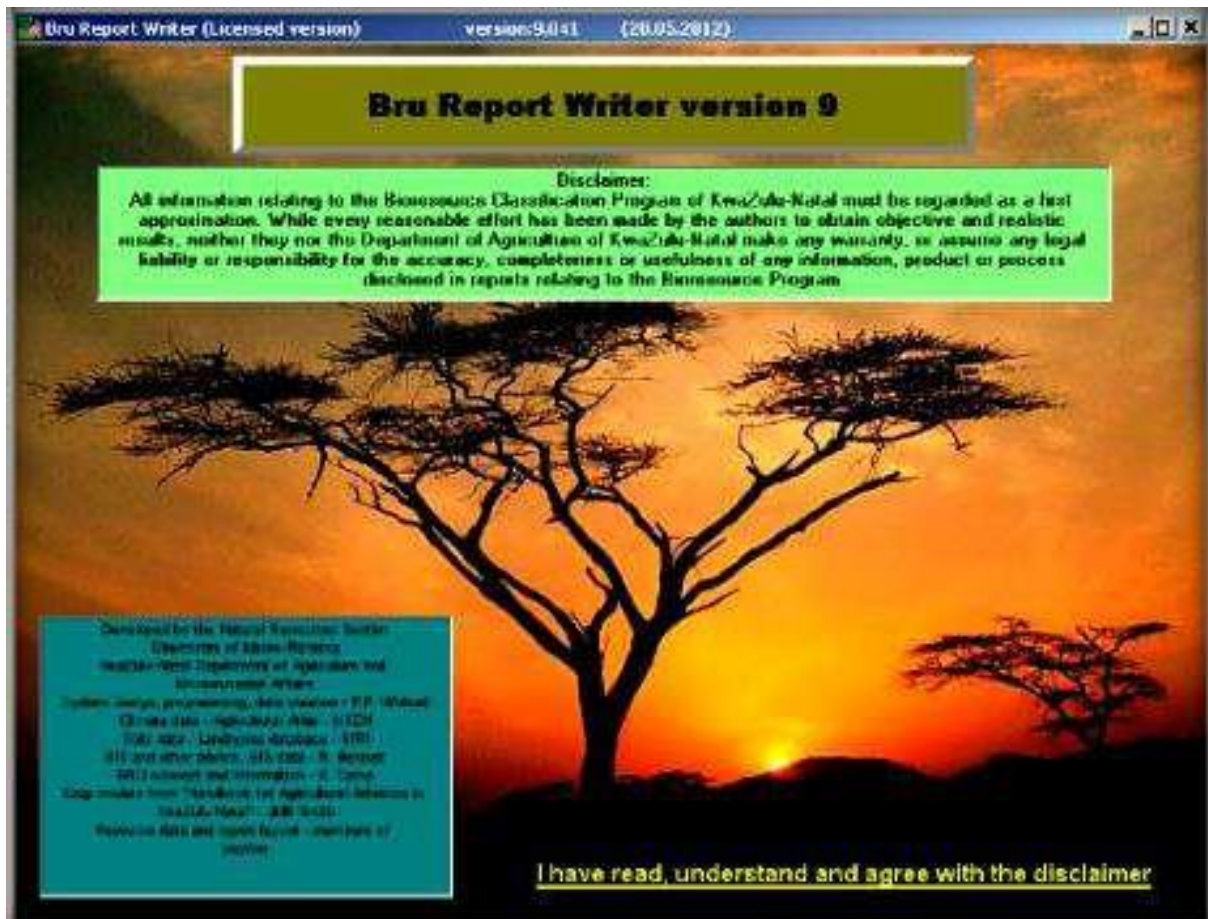
A natural resources and land use planning decision support tool for KZN.

This course will introduce the computer based Bioresource Programme developed for KZN which describes the natural resources (soil, vegetation, land use, cropping options and veld management) and their appropriate use for agriculture. This Programme can assist with developing land use plans and resource assessments, including the creation of basic map layouts, to optimize agricultural land in the Province. Familiarization with the relevant computer programs for accessing data and mapping facilities will be covered in the course. Practical exercises in the application of the resource information will be undertaken.

**NB: An understanding of the soils of KZN is essential.**

Learners must have basic computer skills.

**PLEASE BRING YOUR OWN COMPUTER**



# MARKETING

**DATE:** 21 - 23 AUGUST 2024  
**VENUE:** CENTENARY COMPLEX, CEDARA  
**TIME:** REGISTRATION STARTS AT 08:30AM  
**COST:** R 1560.00  
**APPLICATIONS:** LIMITED TO 20 APPLICANTS

The course is designed to introduce Marketing.

- Introduction to marketing
- Marketing mix and market research
- Market prices and costs
- Market strategies
- Commodity marketing (standards and quality)
- Marketing and Government; functional and organizational issues

**PLEASE REMEMBER TO BRING A CALCULATOR**





# DAIRY PROCESSING

**DATE:** 28 – 30 AUGUST 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 1000.00

**APPLICATIONS:** LIMITED TO 12 APPLICANTS

This course is a practically orientated course which will include

- Introduction
- Nutritional information
- Food safety and good food processing practices
- Soft cheeses
- Yoghurt
- Maas



# AGRICULTURAL EXTENSION

**DATE:** 02 - 06 SEPTEMBER 2024  
**VENUE:** CENTENARY COMPLEX, CEDARA  
**TIME:** REGISTRATION STARTS AT 08:30AM  
**COST:** R 1270.00  
**APPLICATIONS:** LIMITED TO 20 APPLICANTS

This course includes the following aspects:

- Concepts and practice of agricultural extension.
- History and philosophy of agricultural extension.
- Components of extension service delivery systems.
- The process of communication and change.
- The diffusion and adoption of innovations.
- Development and management of an extension programme for the community.
- Group dynamics
- Adult learning

**PLEASE REMEMBER TO BRING A CALCULATOR**





# IRRIGATION

**DATE:** 09 - 13 SEPTEMBER 2024  
**VENUE:** CENTENARY COMPLEX, CEDARA  
**TIME:** REGISTRATION STARTS AT 08:30AM  
**COST:** R 1555.00  
**APPLICATIONS:** LIMITED TO 20 APPLICANTS

The course is aimed at farmers, advisers and only Departmental staff whose work revolves around irrigation aspects on a regular basis.

This is not an irrigation design course, but an introduction into irrigation and planning of a sprinkler irrigation system.

The course looks at the link between soils, crops climate and systems. The course includes a couple of field visits on Cedara.

Prior knowledge of Soils is recommended.

**PLEASE REMEMBER TO BRING A CALCULATOR**



# VEGETABLE PRODUCTION

**DATE:** 16 - 20 SEPTEMBER 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 915.00

**APPLICATIONS:** LIMITED TO 20 APPLICANTS

**This course includes the following aspects:**

- Crop Requirements
- Climatic and Soil Requirements
- Irrigation
- Equipment
- Labour
- Disease, Pest and Weeds Management
- Transport and Distance to the Market
- Production Costs
- Price Trends and Marketing





# BEE KEEPING

**DATE:** 23-24 SEPTEMBER 2024  
**VENUE:** CENTENARY COMPLEX, CEDARA  
**TIME:** REGISTRATION STARTS AT 08:30AM  
**COST:** R 1250.00  
**APPLICATIONS:** LIMITED TO 15 APPLICANTS

- The functioning of a hive
- Developing farmer bee keeping
- Apiary sites and protection
- The equipment required
- The management of bees
- The honey flow
- Harvesting the crop
- Honey and honey products
- Bee diseases and problem





# HOT IRON BRANDING

**DATE:** 25 SEPTEMBER 2024  
**VENUE:** CENTENARY COMPLEX, CEDARA  
**TIME:** REGISTRATION STARTS AT 08:30AM  
**COST:** R 380.00  
**APPLICATIONS:** LIMITED TO 10 APPLICANTS

The aim of this course is to teach applicants how to hot iron brand cattle. The regulations of the Animal Identification Act (No: 6 of 2002) will be discussed; how to register for a brand (forms will be made available) and the correct procedure on how to brand cattle is covered. Each applicant will brand one animal.

**PLEASE COME IN OVERALLS OR SUITABLE FIELDWORK ATTIRE**



# ENTREPRENEURSHIP

DATE:	02 - 04 OCTOBER 2024
VENUE:	CENTENARY COMPLEX, CEDARA
TIME:	REGISTRATION STARTS AT 08:30AM
COST:	R 1270.00
APPLICATIONS:	LIMITED TO 20 APPLICANTS

This course examines:

- the business idea
- market research and raising finance
- planning and developing a business plan
- building entrepreneurial skills
- marketing and sales
- customer relations and managing staff
- negotiating and managing finance
- keeping financial records and simple bookkeeping

**PLEASE BRING YOUR CALCULATOR**



# POULTRY PRODUCTION

**DATE:** 08 - 11 OCTOBER 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 1140.00

**APPLICATIONS:** LIMITED TO 20 APPLICANTS

**This course includes the following aspects for Broilers and Layers:**

- Breeds
- Types of Houses & Management
- Feed Management
- Water Management
- Caring for Day Old Chicks to 6 weeks
- Pullet Management
- Layer/Broiler Production
- Health Management
- Biosecurity
- Marketing





# BIORESOURCE PROGRAMME (ADVANCED)

**DATE:** 16 - 18 OCTOBER 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 950.00

**APPLICATIONS:** LIMITED TO 12 APPLICANTS

A natural resources and land use planning decision support tool for KZN.

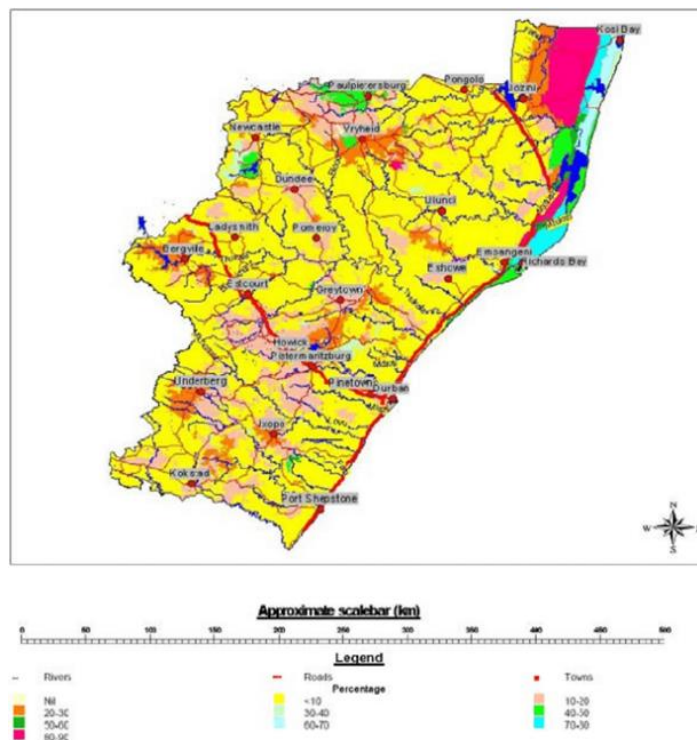
This course will expand on application of the computer based Bio-resource Programme developed for KZN which describes the natural resources of the Province. In this course, the detailed interpretation of the inventory will be covered. A significant part of the course will be the advanced mapping options utilizing various imagery layers and generating detailed maps. This programme can assist with developing land use plans and resource assessments to optimize agricultural land in the Province. Familiarization with the relevant computer programs for accessing data and mapping facilities will be covered in the course. Practical exercises in the application of the resource information will be undertaken.

**Pre-requisite: Successful completion of the BRP Introductory Course.**

**NB: An understanding of the soils of KZN is essential.**

Learners must have basic computer skills

**PLEASE BRING YOUR OWN COMPUTER**



# FARM BUSINESS MANAGEMENT (ADVANCE)

**DATE:** 22 - 25 OCTOBER 2024  
**VENUE:** CENTENARY COMPLEX, CEDARA  
**TIME:** REGISTRATION STARTS AT 08:30AM  
**COST:** R1270.00  
**APPLICATIONS:** LIMITED TO 20 APPLICANTS

Agribusiness is the sum of all operations involved in the manufacture and distribution of farm supplies; production operations on the farm; processing and distribution of farm commodities and items made from them. Farm Business is only concerned with the activities at the primary production level.

This course provides students with tools needed to measure management performance and financial condition of the farm business. It develops decision-making skills in planning, organizing, directing and controlling farm business. Topics such as farm record keeping, financial statement analysis, risk management, income tax management, and machinery management are discussed.

**Learners must be competent in English and Arithmetic (read, write and do basic calculations), and be competent in the use of a calculator (which must be brought to the course).**

It is strongly recommended that participants attend the Farm Record- Keeping course before attending the Farm Business Management course.

**PLEASE REMEMBER TO BRING A CALCULATOR**



# AGRI-FINANCE

**DATE:** 30 OCTOBER - 01 NOVEMBER 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**APPLICATIONS:** LIMITED TO 20 APPLICANTS

**COST:** R600.00

**APPLICATIONS:** LIMITED TO 20 APPLICANTS

Agricultural finance refers to financial services ranging from short-, medium- and long-term loans, to leasing, to crop and livestock insurance, covering the entire agricultural value chain - input supply, production and distribution, wholesaling, processing and marketing. Agriculture is a major source of livelihood throughout the world, especially for the majority of poor people living in rural areas in developing countries. A key challenge for the majority of these farmers is - access to finance. Lack of access to finance is a key impediment to farmers in improving the efficiency of their productions and adopting better technologies. Small scale farmers and commercial farmers continue to struggle in accessing the finance they need to maintain a sustainable and productive level of output. Small scale farmers which require loans to buy inputs, such as seeds and fertilizers, are often required to borrow against collateral such as real estate, which they simply do not have. As a result, they are unable to fertilize their land and are forced to use seeds held back from the preceding harvest to plant their new crop. These seeds are poor in quality and have degenerated over time and, combined with ineffective fertilization and application of insecticides, leads to decreasing yields and poor quality crops.

This course would mainly cover the following aspects:

Linking farmers to insurance companies.

The outcomes of the course will be:

- Gained an exposure to various finance packages of finance to support the agro processing enterprises
- Create a favourable environment for the agro processors to deliver its business prosperity
- Opportunity for networking with active players in the finance field
- Confidence towards business sustainability and consistency.





# JAM MANUFACTURING

**DATE:** 06 - 08 NOVEMBER 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 1105.00

**APPLICATIONS:** LIMITED TO 15 APPLICANTS

This course is a practically orientated course which covers making of various jams and jellies depending on the availability of fruit.

- Introduction
- Nutritional information
- Food safety and good food practices
- Jelly
- Marmalade
- Jam

**PLEASE BRING AN APRON OR WHITE JACKET**





# FORESTRY

**DATE:** 11 - 15 NOVEMBER 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R1315.00

**APPLICATIONS:** LIMITED TO 20 APPLICANTS

The forest production course is aimed at farmers who are growing forest trees on the farm. The course is introductory and will deal with the common commercial tree species and tree species that are beneficial on the farm. Forest production will discuss aspects related to tree regeneration, rotation, tree tendering, harvesting methods, and produce products as per the requirements and specification of the market. Where possible the various practices will be demonstrated in the field, so please dress appropriately (e.g.: closed shoes: boots, hard hat, and reflective vest).

This course covers the following aspects:

- Site species matching
- Planting
- Tree maintenance
- Harvesting
- Tree products
- Agroforestry

Duration of the course will be five (5) days



# FRUITS AND VEGETABLE PROCESSING

**DATE:** 20 – 22 NOVEMBER 2024

**VENUE:** VALUE ADDING HOUSE 42, CEDARA

**COST:** R 1000.00

**APPLICATION:** LIMITED TO 15 APPLICANTS

The course duration is 3 days and covers the theory and practical aspects of processing fruits and vegetables in season into various products.

The theory covers the following:

- Nutrition
- Food hygiene and safety

The practical involves the following processing techniques:

- Drying
- Bottling
- Pickling
- Juice making
- Jam making





# VELD MANAGEMENT

**DATE:** 26- 29 NOVEMBER 2024

**VENUE:** NATURAL RESOURCES CONFERENCE ROOM, CEDARA

**COST:** R 915-00

**APPLICATION:** LIMITED TO 20 APPLICANTS

The course will encompass an ecological study of the veld, including how to identify grass and tree species. This course also covers the interaction of grazers and browsers on vegetation, veld condition assessments, calculating grazing capacity and stocking rate from these results and also addresses the Principles of veld management. The final day will be spent in doing practical exercises in the field. Please bring suitable clothes and shoes for the field. It is recommended that course participants bring the books; "Guide to Grasses of Southern Africa" by Frits van Oudtshoorn and "Trees of Natal" by Elsa Pooley if possible.

Basic English and Maths skills necessary.

**PLEASE BRING YOUR CALCULATOR**





# POULTRY PRODUCTION

**DATE:** 03 – 06 DECEMBER 2024

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 1140.00

**APPLICATIONS:** LIMITED TO 20 APPLICANTS

**This course includes the following aspects for Broilers and Layers:**

- Breeds
- Types of Houses & Management
- Feed Management
- Water Management
- Caring for Day Old Chicks to 6 weeks
- Pullet Management
- Layer/Broiler Production
- Health Management
- Biosecurity
- Marketing
- Record Keeping



# MUSHROOM PRODUCTION

**DATE:** 04 - 07 FEBRUARY 2025

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R 1375.00

**APPLICATION:** LIMITED TO 20 APPLICANTS

This course includes the following aspects for mushroom production.

Planting

Mushroom substrate production

Daily management to achieve optimum yield

Recording of temperature and humidity

- Land preparation and planting methods
- Mushroom substrate production
- Daily management to achieve optimum yield
- Recording of temperature and humidity
- Spawn and Mushroom pack production
- Pest control, common diseases
- Management (Basic Housekeeping)
- Harvesting, Weighing and Recording of data





# ORGANIC FARMING

**DATE:** 18 - 21 FEBRUARY 2025

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R1330.00

**APPLICATIONS:** LIMITED TO 20 APPLICANTS

- organic concepts
- organic vs conventional
- planning process
- propagation & transplanting seedlings
- establishing organic vegetable production
- making of compost
- successful cultivation
- erosion management
- rotation of crops
- control of weeds & insects
- water management





# COMMERCIAL CROP PRODUCTION

<b>DATE:</b>	<b>03 - 07 MARCH 2025</b>
<b>VENUE:</b>	<b>CENTENARY COMPLEX, CEDARA</b>
<b>TIME:</b>	<b>REGISTRATION STARTS AT 08:30AM</b>
<b>COST:</b>	<b>R910.00</b>
<b>APPLICATIONS:</b>	<b>LIMITED TO 20 APPLICANTS</b>

This Crop Production course is aimed at Commercial farmers & Extension staff in Crop Production. Appropriate technologies will be presented.

Crops that will be dealt with in detail are maize, potatoes, dry beans, cowpeas, soya bean and groundnuts. All aspects relating to the production of these crops will be dealt with. These include soil conservation, nutrition of crops, efficient use of manure, animal and tractor draught implements, land preparation, land suitability, crop rotation, crop establishment practices, inoculation of legumes, weed control, irrigation, disease and pest control as well as planning and budgeting, financing, marketing and value adding options.

Where possible the various practices will be demonstrated in the field, so **please dress appropriately (e.g.: hats and boots)**

**Sound knowledge of literacy and maths skills is vital**

**PLEASE BRING YOUR CALCULATOR.**



# RESEARCH PAPER WRITING

**DATE:** 12 - 14 MARCH 2025  
**VENUE:** CENTENARY COMPLEX, CEDARA  
**TIME:** REGISTRATION STARTS AT 08:30AM  
**COST:** R670.00  
**APPLICATIONS:** LIMITED TO 20 APPLICANTS

**THIS COURSE IS FOR DEPARTMENTAL STAFF ONLY**

It is a three day short course whose target audience is scientists who wish to acquire skills to design and write a research report/article.

The objectives of the course is to empower scientists to

1. Draft a research proposal (protocol)
2. Conduct scientific research
3. Write a decent scientific paper

## Course content

Setting up materials and methods Phrasing of hypothesis Calculating sample sizes Sampling methods  
Questionnaire design  
Choice of appropriate statistical methods Literature review techniques Referencing methods  
How to report results  
How to discuss results?



# PIG PRODUCTION

**DATE:** 24 - 28 MARCH 2025

**VENUE:** CENTENARY COMPLEX, CEDARA

**TIME:** REGISTRATION STARTS AT 08:30AM

**COST:** R1255.00

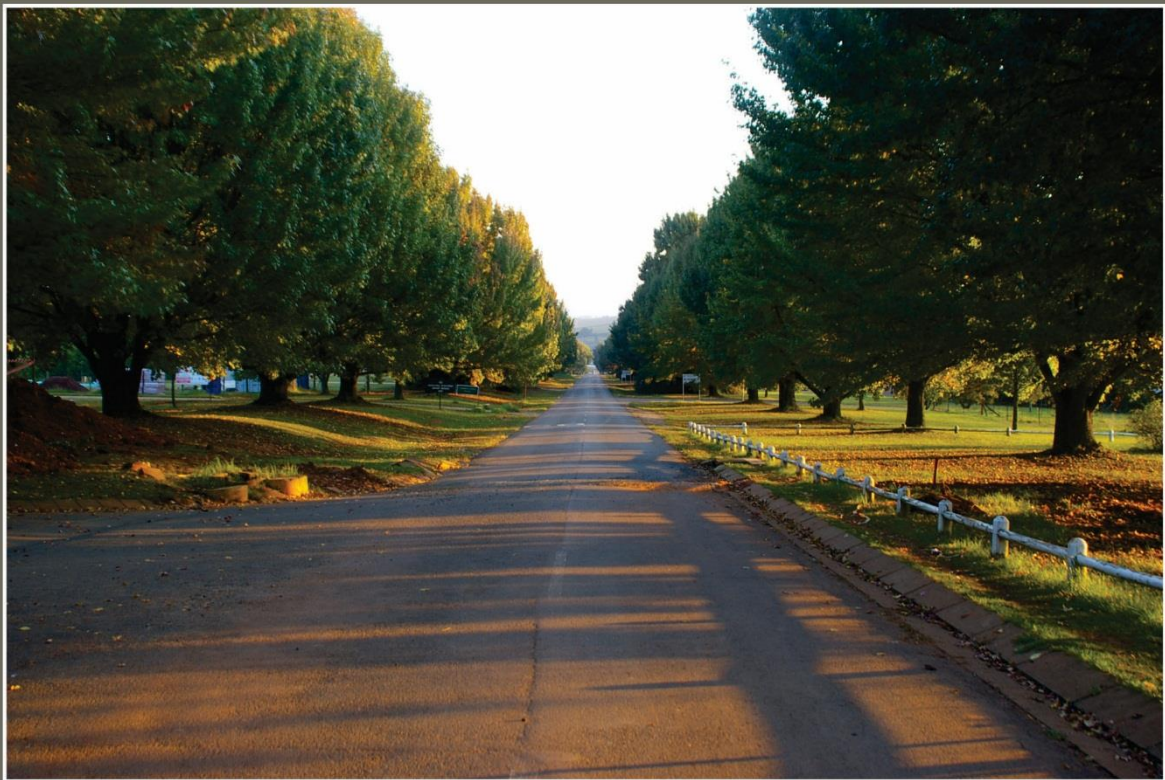
**APPLICATIONS:** LIMITED TO 20 APPLICANTS

Topics to be dealt with in this course will include:

- Housing - basic principles for design and management
- Nutrition - choice of rations to meet requirements
- Feeding systems
- Health Management-vaccination and medication programmes
- Biodiversity
- Breeding and Selection - traits of economic importance, selection and breeding methods
- Management of breeding herd - service management, farrowing, management of lactating sow and piglets
- Management of grower herd - weaning to marketing
- Economics - record keeping, gross margins and economics of scale
- Marketing - value adding, decisions to sell
- Practical - visit to piggery facilities, handling of pigs.







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