



AGRICULTURE DEVELOPMENT
AND FARMERS' WELFARE
DEPARTMENT

ANNUAL TRAINING CALENDAR 2023 - 24

SAMETI



KERALA



P. PRASAD
Minister for Agriculture

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MESSAGE

I am extremely happy to know that SAMETI Kerala is bringing to light the training calendar 2023-24 to provide capacity building support in extension management and related areas for extension functionaries of public and private sector. SAMETI being the nodal state level training institute extend it's helping hand to increase the productivity, efficiency and increase the speed of change, positively in the field of extension management in Agriculture, Animal Husbandry, Dairy and Fisheries. New initiative taken up by SAMETI in collaboration with Indian Institute of Packaging, Mumbai may help farmers and entrepreneurs tremendously for income generation through value addition and also exposure of their products in national and international markets. I hope this calendar would help officers of agriculture and allied sectors feel more competent and confident in their roles which ultimately help sustainable agricultural development in the state.

I wish all success for this endeavor.

P. Prasad
Minister for Agriculture



Dr. B. ASHOK IAS

Agricultural Production Commissioner &
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MESSAGE

Agriculture Extension plays an important role in technology dissemination. Through vibrant extension machinery, the valuable findings from the research institutions as well as the newer agricultural management practices can be brought down to the farmer level. Technology assessment, demonstration and capacity development programmes will ensure maximum returns from farming activities. Thus agricultural extension supports the farming community and enhances rural development .

SAMETI is the state level training institution imparting training to the agricultural extension functionaries. The annual training calendar 2023-24 has been prepared by the institute to conduct the training systematically. Hope these training programmes will help the trainees to become aware of their role in the growth of Agriculture, Animal Husbandry, Dairy and fisheries sectors so that a vibrant economy will be evolved.

Dr. B. ASOK IAS

Agricultural Production Commissioner &
Principal Secretary to Government



Smt. ANJU K.S IAS
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MESSAGE

Agricultural Extension has a crucial role to play in the context of growing demands of agricultural production in a sustainable manner. The training programmes proposed during 2023-24 by SAMETI covers different areas of agricultural extension and management which are relevant to the prevailing situations in the state. The training calendar of SAMETI for 2023-24 will help the Departments of Agriculture Animal Husbandry, Dairy and fisheries sectors to streamline their HRD programmes in the future.

ANJU K.S IAS
Director of Agriculture



Sri. GEORGE SEBASTIAN MSc. (Ag) Agronomy
Director, SAMETI

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PREFACE

SAMETI is a forerunner in the field of training and development in Agriculture, Animal Husbandry, Dairy and Fisheries sectors constantly seeking professional excellence in its path, there by aid in enhancing quality, productivity and sustainability in the primary production sector in Kerala

To keep pace with the changing environment, SAMETI Kerala has been updating its visions and strategies from time to time. SAMETI – Kerala has prepared the training calendar 2023 – 24 by receiving the inputs from the training planning workshop with the participation of technical support group members, senior level officers, officers of line departments, feedback from trainees and trainers of SAMETI, similar State level training institutes and other stakeholders of ATMA.

The annual training calendar prepared by SAMETI would help the agriculture and allied departments to plan their training programmes in advance for effective impact.

GEORGE SEBASTIAN
Director, SAMETI

SAMETI –KERALA

STATE AGRICULTURE MANAGEMENT & EXTENSION TRAINING INSTITUTE

Extension plays a crucial role in increasing production and productivity in Agriculture. In view of the gap between technologies available and the technology being adopted by farmers, Government has taken steps to revamp the Agriculture Extension system of the State by integrating Central and State sector schemes to provide timely advice and support to the farmers of the state.

ATMA (Agriculture Technology Management Agency) the Centrally sponsored scheme has provided a platform for integrating similar efforts and provided support to State for the establishment of Human Resource Development Centre like SAMETI.

BACKGROUND INFORMATION

SAMETI is a State level training institute established to impart training to extension functionaries of the Department of Agriculture and Allied sectors.

The Department of Agriculture under the Central Sector Extension Reform Scheme. ATMA has established SAMETI in Trivandrum, Kerala. It is registered under Travancore Cochin Literary Scientific and Charitable Society Act before District Register, Thiruvananthapuram on 23.01.2008 with Reg. No. 144/08. SAMETI is located at Venpalavattom, Anayara in Kazhakuttom – Kovalam by pass road.

OBJECTIVES OF SAMETI

The Key Objectives of SAMETI are :

- 1) To function as the Nodal State Level Training Institute in area of Agriculture Management.
- 2) To provide capacity building support in Extension Management and related areas to extension functionaries of public and private sector.
- 3) To provide consultancy services in the areas like project planning, appraisal, implementation etc.
- 4) Organize need based training programme for middle level and grass root level agricultural extension functionaries.
- 5) Develop modules on management, communication, participatory methodologies etc.

ORGANIZATIONAL SETUP OF SAMETI

For the smooth functioning of SAMETI, Government has constituted various committees and bodies viz. The General Council, the Executive Council and Technical Support Group.

The General Council of SAMETI shall be responsible for taking decisions on policy matter of the SAMETI in accordance with the rules and byelaws. Agricultural production Commissioner of the State is the Chairman of the General Council.

The Executive Council of SAMETI shall be responsible for the management and administration of the affairs of the SAMETI in accordance with the rules and byelaws. Secretary (Agriculture) is the chairman of the Executive Council.

Technical Support Group is a multidisciplinary team of experts from different disciplines to advice and recommend SAMETI to undertake various activities.

The Director is the Chief Executive officer of SAMETI and the Member Secretary/ Convener of General Council & Executive Council.

Director, SAMETI is supported by eight number of faculties in the cadre of Deputy Director from Agriculture and Allied Sectors

1. Agriculture – 4 Nos.
2. Animal Husbandry – 2 Nos.
3. Dairy Development – 1 No.
4. Fisheries – 1 No.

The office is assisted by a Senior Superintendent from the Department of Agriculture and supporting staff on contract/ daily wage basis.

TRAINING CALENDER 2023 – '24**SAMETI - KERALA****TRAININGS PROPOSED FOR THE YEAR 2023 – 2024****HRD TRAINING PROGRAMMES**

Sl. No.	Name of Training Programme	Date	Co ordinator
1.	FPO's and Entrepreneurship Development	18.04.2023 TO 20.04.2023	DDA 1
2.	Drones in Agriculture	25.04.2023 TO 27.04.2023	DDA 2
3.	Sea Safety, Craft & Gear Technology	27.04.2023 TO 29.04.2023	DDF
4.	Post Harvest Handling & Value Addition in Agricultural Commodities	02.05.2023 TO 04.05.2023	DDA 3
5.	Management of Haemoprotozoal diseases and Hoofcare in large animals.	04.05.2023 TO 06.05.2023	DDA AH 1
6.	Farm Management – Economics & Practical Skills	08.05.2023 TO 10.05.2023	DDA 4
7.	New Trends in Dairy Farming for Doubling Farmers' Income – A Practical Approach	10.05.2023 TO 12.05.2023	DDD
8.	Urban Agriculture – New Trends in Urban Agriculture	15.05.2023 TO 17.05.2023	DDA 2
9.	Biodiversity Management & Conservation of Fishery Resources	18.05.2023 TO 20.05.2023	DDF
10.	Njangalum Krishiyilekku	22.05.2023 TO 24.05.2023	DDA 1
11.	Updating Lab Techniques for Disease Diagnosis	25.05.2023 TO 27.05.2023	DD AH 2
12.	IOT & Artificial Intelligence in Agriculture	29.05.2023 TO 31.05.2023	DDA 4
13.	Quality Control in Agriculture	05.06.2023 TO 07.06.2023	DDA 2
14.	Nursery Management & Licensing Procedures	07.06.2023 TO 09.06.2023	DDA 3
15.	Food Safety Aspects of Dairy & AH Industries in accordance with FSSAI Act	12.06.2023 TO 14.06.2023	DDD
16.	Reproductive Ultra Sonography in Ruminants.	15.06.2023 TO 17.06.2023	DD AH 1

Sl. No.	Name of Training Programme	Date	Co ordinator
17.	Post Harvest Management for better Price	19.06.2023 TO 21.01.2023	DDF
18.	Good Agricultural Practices for Safe Food	22.06.2023 TO 24.06.2023	DDA 4
19.	Millet Smart Food for Healthy Future	29.06.2023 TO 01.07.2023	DDA 1
20.	Media & Public Relations, Farm Journalism	03.07.2023 TO 05.07.2023	DD AH 2
21.	Integrated Pest Management Practices & New Generation Pesticides	05.07.2023 TO 07.07.2023	DDA 2
22.	Njangalum Krishiyilekku	10.07.2023 TO 12.07.2023	DDA 4
23.	Market Oriented Extension & Export Management	13.07.2023 TO 15.07.2023	DDD
24.	Aquaculture & Hatchery Management Skills	18.07.2023 TO 20.07.2023	DDF
25.	Smart Agriculture for Smart Farming	20.07.2023 TO 22.07.2023	DDA 3
26.	Scope of Poultry Production & Modern Trends in Management of Poultry Farms	24.07.2023 TO 26.07.2023	DD AH 1
27.	Latest Trends in Aquaculture	01.08.2023 TO 03.08.2023	DDF
28.	Export Orientation in Agriculture	03.08.2023 TO 05.08.2023	DDA 2
29.	Insurance & Credit Management in Agriculture	07.08.2023 TO 09.08.2023	DDA 3
30.	Soil Conservation & Energy Management	09.08.2023 TO 11.08.2023	DDA 4
31.	Market Oriented Extension	16.08.2023 TO 18.08.2023	DDA 4
32.	Entrepreneurship Development in Dairy Sector - Prioritization of Issues related to Livestock Management	21.08.2023 TO 23.08.2023	DDD
33.	Post Mortem Technique for Diagnosis & Vetero legal Cases	23.08.2023 TO 25.08.2023	DD AH 2
34.	FPO's & Entrepreneurship Development	11.09.2023 TO 13.09.2023	DDA 3
35.	Management of Zoonotic Diseases, Disaster Management & Safety Measures for Professionals & Staff	13.09.2023 TO 15.09.2023	DD AH 1
36.	Legislatives & Registrations in Aquaculture	18.09.2023 TO 20.09.2023	DDF

Sl. No.	Name of Training Programme	Date	Co ordinator
37.	Innovations in Animal House, Farm Mechanisation & Animal Nutrition	28.09.2023 TO 30.09.2023	DD AH 2
38.	Carbon Neutral Agriculture	03.10.2023 TO 05.10.2023	DDA 2
39.	Post Harvest Handling & Value Addition in Agricultural Commodities	05.10.2023 TO 07.10.2023	DDA 1
40.	Organic Farming & Certification	09.10.2023 TO 11.10.2023	DDA 4
41.	Management of Zoonotic Diseases, Disaster Management & Safety Measures for Professionals & Staff	11.10.2023 TO 13.10.2023	DD AH 1
42.	Entrepreneurship Development Fisheries Sector	16.10.2023 TO 18.10.2023	DDF
43.	Integrated Farming System	18.10.2023 TO 20.10.2023	DD AH 2
44.	Mechanisation, Value Addition & Marketing in Dairy Sector	26.10.2023 TO 28.10.2023	DDD
45.	Njangalum Krishiyilekku	30.10.2023 TO 01.11.2023	DDA 3
46.	Elephant Disease, Management, Tranquilizing Techniques	01.11.2023 TO 13.11.2023	DD AH 2
47.	IOT and Artificial Intelligence in Agriculture	06.11.2023 TO 08.11.2023	DDA 4
48.	Nano Fertilizer & Plant Protection Materials	08.11.2023 TO 10.11.2023	DDA 2
49.	Bankable Project Preparation, Monitoring & Evaluation	13.11.2023 TO 15.11.2023	DD AH 1
50.	Integrated Farming System for Sustainable Livelihood	14.11.2023 TO 16.11.2023	DDD
51.	Ornamental Fisheries & Aquarium Keeping	20.11.2023 TO 22.11.2023	DDF
52.	Millet - Smart Food for Healthy Future	23.11.2023 TO 25.11.2023	DDA 2
53.	Innovations in Agriculture	27.11.2023 TO 29.11.2023	DDA -3
54.	New trends in Urban Agriculture	29.11.2024 TO 01.12.2024	DDA4
55.	Media & Public Relation, Farm Journalism	04.12.2023 TO 06.12.2023	DDD
56.	Food Safety & Value Addition in AH Sector	06.12.2023 TO 08.12.2023	DD AH 2
57.	Media Public relations, Farm Journalism	11.12.2023 TO 13.12.2023	DDA 3

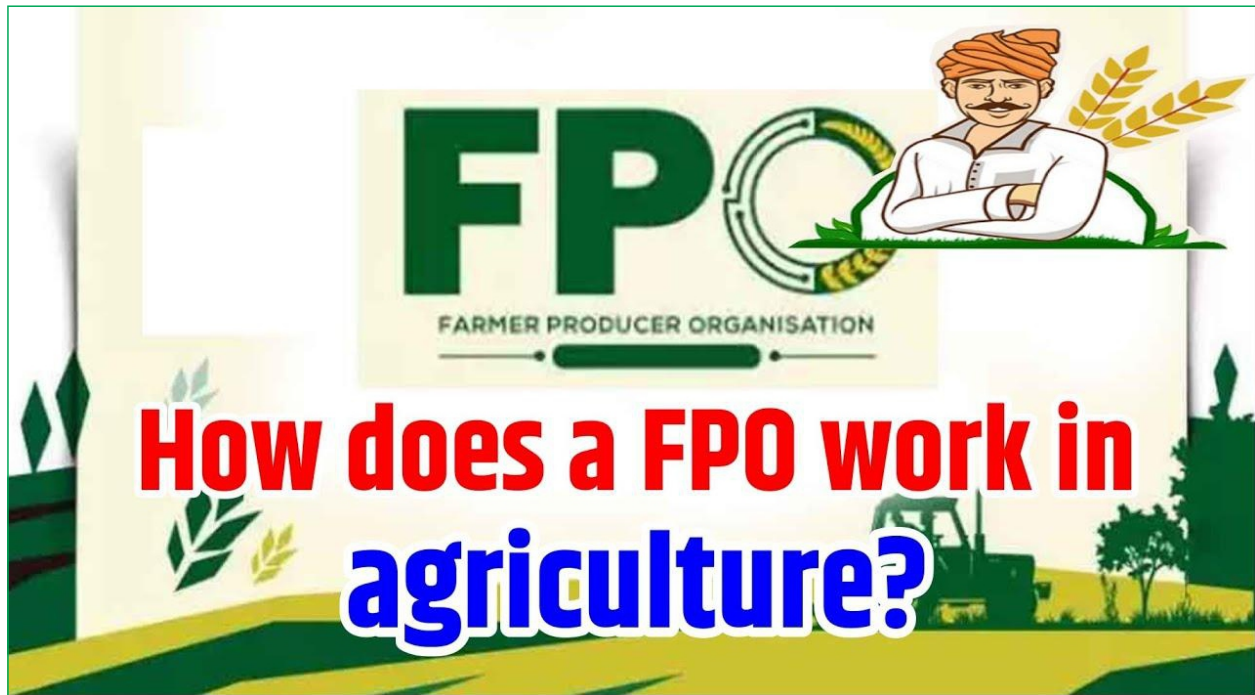
Sl. No.	Name of Training Programme	Date	Co ordinator
58.	Quality Control in Agriculture	11.12.2023 TO 13.12.2023	DDA4
59.	Pet Birds, General Management, Disease Control, Marketing Strategy	14.12.2023 TO 16.12.2023	DD AH 2
60.	Quality Control in Agriculture	21.12.2023 TO 23.12.2023	DDA 1
61.	Optimising the use of ICT & Social Media - a tool for Effective & Efficient Farming	28.12.2023 TO 30.12.2023	DDD
62.	Climate Resilient Livestock Production	04.01.2024 TO 06.01.2024	DD AH 1
63.	Integrated Farming System for Sustainable Livelihood	09.01.2024 TO 11.01.2024	DDA1
64.	New trends in Urban Agriculture	18.01.2024 TO 20.01.2024	DDA3
65.	Integrated Pest Management Practices & New Generation Pesticides	23.01.2024 TO 25.01.2024	DDA2

MANAGEMENT DEVELOPMENT PROGRAMME FOR SENIOR LEVEL OFFICERS			
Sl. No	SECTOR	DATE	Co-Ordinator
1.	Animal Husbandry	29.05.2023 TO 01.06.2023	DD AH 1
2.	Agriculture	21.06.2023 TO 24.06.2023	DDA 2
3.	Fisheries	24.07.2023 TO 27.07.2023	DDF
4.	Animal Husbandry	16.08.2023 TO 19.08.2023	DDAH2
5.	Dairy Development	18.09.2023 TO 21.09.2023	DDD
6.	Agriculture	25.10.2023 TO 28.10.2023	DDA 3
7.	Agriculture	27.11.2023 TO 30.11.2023	DDA 1
8.	Agriculture	18.12.2023 TO 21.12.2023	DDA 4

SPECIALIZED TRAININGS		
Sl.No.	Name of Training	No. of Trainings
1.	Induction Training for Agricultural Officers	10 Nos.
2.	Induction Training for Agricultural Assistants	6 Nos.
3.	Induction Training for Officers of Animal Husbandry Department	2 Nos.
4.	Induction Training for Officers of Dairy Development Department.	2 Nos.
5.	Induction Training for Officers of Fisheries Department.	2 Nos.
6.	Specialised Training with Indian Institute of Packaging IIP	10 Nos.
7.	Specialised Training with Indian Institute of Management IIM	5 Nos.

COLLABORATIVE PROGRAMMES

Sl.No	Name of Programme	No. of Programmes	Duration
1	DAESI with MANAGE	10	70 Weeks
2	PGDAEM with MANAGE	1 Batch	1 year
3	Certificate course on Insecticide Dealers & Distributors	4 Batch	12 days
4	PGDPHM with NIPHM	6 th Batch (2 year PG Diploma Programme)	2 Years
5	Participatory Guarantee System (PGS) for India - Certification Course	-	3 Years
6	Skilled Training for Rural Youth (STRY)	14 Batches	7 days



18.04.2023 – 20.04.2023, 11.09.2023 – 13.09.2023 (3 days)

FPO'S and Entrepreneurship Development

OBJECTIVES

- To empower the trainees an FPO development approach

CONTENTS

- FPO development approach; Agri marketing and FPO Policy; Introductory case lets on FPOs; Soft skills for FPO Management; Services provided by an ideal FPO
- Operation of input shops by an FPO
- Success story sharing by the CEOs/BoDs of some successful FPOs
- Brief case lets on activity mix of performing FPOs

PARTICIPANTS

Officers from Agriculture and Allied Sectors



25.04.2023 - 27.04.2023 (3 days)

DRONES IN AGRICULTURE

OBJECTIVES

- To impart necessary knowledge about the use of Drones in Agriculture .

CONTENTS

- Use of Drones in Agriculture.
- Areas of Application.
- Service & Availability.
- IOT in Agriculture
- Use of Drones in Smart Farming
- Advances in Drone Technology
- Demonstration on Drone applications in smart farming.

PARTICIPANTS
OFFICERS OF AGRICULTURE DEPARTMENT.



27.04.2023 – 29.04.2023 (3 days)
SEA SAFETY, CRAFT AND GEAR TECHNOLOGY
OBJECTIVES
<ul style="list-style-type: none"> ● To acquaint the participants the various aspects of sea safety ● To create an awareness regarding registration and licencing of vessels.
CONTENTS
<ul style="list-style-type: none"> ● Registration and Licencing of Vessels ● Navigation and sea safety equipments. ● Various types of crafts and gears used in Districts of Kerala. ● Communication Equipments.
PARTICIPANTS
OFFICERS FROM AGRICULTURE AND ALLIED SECTORS



02.05.2023 - 04.05.2023, 05-10-23 - 07-10-23 (3 days)

**POST HARVEST HANDLING AND VALUE ADDITION
IN AGRICULTURAL COMMODITIES**

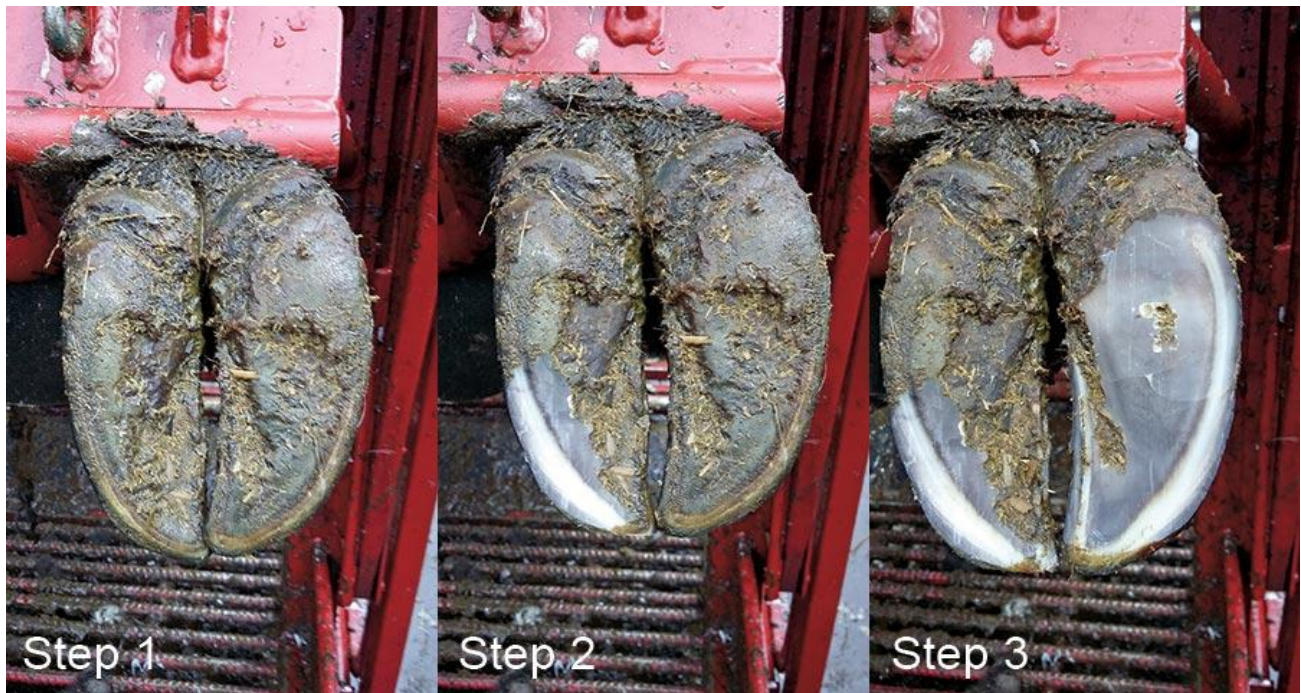
OBJECTIVES

6. To double the Farmer's income.
7. Introduction of Value Added Products In Agriculture Sector

8. Introduction on Value Addition in Agriculture.
9. Post harvest handling of Fruits and Vegetables.
10. Scope of value addition in Fruits and Vegetables.
11. Importance Of packaging in Agriculture.
12. New trends in Packaging

PARTICIPANTS

Officers from Agriculture and Allied Sectors



04/05/2023 - 06/05/2023, 11/10/2023 - 13/10/2023 (3 days)
Management of Haemo Protozoan disease & Hoof care in Large Animals
OBJECTIVES
<ul style="list-style-type: none"> • To empower Veterinarians in common disease problems in field
CONTENTS
<ul style="list-style-type: none"> • Haemo Protozoal disease diagnosis and treatment • Anatomy of Hoof and Hoof diseases • Hands on training in hoof trimming and operations with 2 days practical session • Farm visits
PARTICIPANTS
Veterinarians from Animal Husbandry Department



08.05.2023 to 10.05.2023 (3 days)
FARM MANAGEMENT - ECONOMICS AND PRACTICAL SKILLS
OBJECTIVES
<ul style="list-style-type: none"> • To Improve Farm Management Skills • To Improve professional knowledge • To Understand the financial aspects of the farm • Analyzing farm's performance • Improve relationships with colleagues and those involved with the business
CONTENTS
<ul style="list-style-type: none"> • Best Practices to Improve Farm Management Skills • High levels of professional knowledge • Evaluate annual performance
PARTICIPANTS
Agricultural Officers, Assistant Directors of Agriculture, Farm Officers and Officers from Allied Sectors



10.05.2023 - 12.05.2023
NEW TRENDS IN DAIRY FARMING FOR DOUBLING FARMERS' INCOME
OBJECTIVES
To orient the participants to the latest trends and innovations in dairy farming
CONTENTS
<p>Latest trends in Dairy Farming, Scientific feeding & Management</p> <p>Hi-Tech fodder Production</p> <p>Waste Management in Dairy Farming</p> <p>Hydroponics, Azolla Cultivation</p> <p>Utilization of Bye products of Agriculture</p> <p>Participatory extension approaches for sustainable dairying</p> <p>Social media applications and ICT mediated Dairy Extension</p> <p>Entrepreneurship development focused on dairy innovations</p> <p>Gender perspectives in technology transfer</p>
PARTICIPANTS
Officers from Animal Husbandry & Dairy Development Departments



15.05.2023 - 17.05.2023, 04.01.2024 - 06.01.2024 18.01.2024
20.01.2024 (3 days)

URBAN AGRICULTURE – NEW TRENDS

OBJECTIVES

- To create an awareness among Officers about new trends in Urban Agriculture.

CONTENTS

- Introduction to Urban Agriculture
- Concepts and Principles of Urban Agriculture
- Urban based Integrated Farming System Models
- Vertical Farming
- Food Scaping
- Soilless Cultivation
- Canopy Management and Container Planting of Fruits and Vegetables.

PARTICIPANTS

OFFICERS OF AGRICULTURE & ALLIED DEPARTMENTS.



18.05.2023 –20.05.2023 (3 days)

BIODIVERSITY MANAGEMENT & CONSERVATION OF FISHERY RESOURCES

OBJECTIVES

- To acquaint the participants the various measures for management and conservation of Fishery resources.

CONTENTS

- Conservation and Management of Fishery Resources
- KMFR Act, Inland Fisheries Act, MS Act
- Environmental impact on Fishing
Ecological disruption, protection of Habitats, Sea erosion.

PARTICIPANTS

OFFICERS FROM AGRICULTURE AND ALLIED SECTORS



22.06.2023 – 24.06.2023, 10.07.2023 – 12.07.2023, 30.10.2023 – 01.11.2023

NJANGALUM KRISHIYILEKKU

OBJECTIVES

- To sensitise the participants about the spirit of Kerala Agriculture across the State.
- To enable capacity building in the participants to achieve foodself sufficiency in the State.
- Safe food and Good Agricultural Practices
- Rejuvenising the culture in Agriculture

CONTENTS

- To develop a sustainable Agriculture Zone.
- To protect environment
- To promote safe to eat food production
- To attain self sufficiency in food production
- To increase fertility status of the soil.
- To raise farmers' income through Agriculture value addition & processing.

PARTICIPANTS

Agricultural Officers, Assistant Directors of Agriculture (Selected), Farm Officers and Officers from Allied Sectors



25/05/2023 To 27/05/2023 3 days

LABORATORY - AN ADJUNCT FOR CLINICAL DIAGNOSIS

OBJECTIVES

To empower the participants the various clinical aspects in AH Sector.

CONTENTS

Collection, Preservation & dispatch of clinical specimens for laboratory diagnosis
 Art of disease investigation
 Point of case laboratory procedures
 Zoonosis and handling of high risk pathogens
 Experience sharing, discussion, post training evaluation
 Visit to SIAD Palode

PARTICIPANTS

Officers from Animal Husbandry & Dairy Development Departments



29.05.2023 – 31.05.2023, 06.11.2023-08.11.2023 (3 days)

IOT AND ARTIFICIAL INTELLIGENCE IN AGRICULTURE

OBJECTIVES

Understand what is Artificial Intelligence
 Lifecycle assessment in Agriculture
 Challenges faced in Agriculture with traditional farming techniques.
 To overcome challenges in Agriculture with the application of AI in Agriculture

CONTENTS

Use of weather forecasting:
 Soil and crop health monitoring system:
 Analyzing crop health by drones:
 Precision Farming and Predictive Analytics:
 Agricultural Robotics:
 AI-enabled system to detect pests
 Introduction to IOT.
 Use of Geo informatics and Sensor based technologies in agriculture.

PARTICIPANTS

Officers from Agriculture and Allied Sectors



05/06/2023 To 07/06/2023 21/12/2023 to 23/12/2023

QUALITY CONTROL IN AGRICULTURE

OBJECTIVES

To ensure the Quality of input supplied through various agencies in Agricultural sector .

Enforcement of quality parameters and quarantine measures.

CONTENTS

Duties and responsibilities of quality control inspector
 Procedure for drawal of fertilizer samples
 Processing application for new and renewal of licence
 Familiarisation of various registers.
 Banned chemical and new generation molecules
 Fertilizer mixing units.

PARTICIPANTS

Officers from Agriculture and Allied Sectors



07/06/2023- 09/06/2023
NURSERY MANAGEMENT AND LICENCING PROCEDURES
OBJECTIVES
Enforcement of Hatchery Management Act To ensure the quality of Packing materials.
CONTENTS
<ul style="list-style-type: none"> ● Importance of Nursery Management Act ● Classification of hatcheries ● Procedure for obtaining Nursery Licence ● Plant Quarantine,Importance of plant quarantine in Agriculture ● Coconut cultivation – Nursery management with special reference to Coconut.
PARTICIPANTS
Officers from Agriculture and Allied Sectors

4 STEPS TO FOOD SAFETY



12/06/2023 To 14/06/2023 , 06/12/2023 To 08/12/2023

FOOD SAFETY ASPECTS OF DAIRY AND AH INDUSTRIES IN ACCORDANCE WITH FSSAI ACT

OBJECTIVES

To create acquaintance with the various food safety aspects of Dairy and AH industry.

CONTENTS

Legal procedures, licensing and marketing of milk and its food safety aspects
Regulatory frame work standards and quality assurance of Dairy Sector - FSSAI Act
Dairy Industry : Processing, Standardisation and Quality Control aspects.

PARTICIPANTS

Officers from Animal Husbandry & Dairy Development Departments



15.06.2023 - 17.06.2023 (3days)

REPRODUCTIVE ULTRA SONOGRAPHY IN RUMINANTS

OBJECTIVES

- To sensitise the participants in Modern trends in pregnancy Diagnosis and infertility Management

CONTENTS

- Reproductive Anatomy of Ruminants
- Pregnancy Diagnosis and treatment of infertility in Large Animals
- Hands on training in ultra sonography in Ruminants in Farms

PARTICIPANTS

Officers from Animal Husbandry Department



19.06.2023 – 21.06.2023 (3days)

POST HARVEST MANAGEMENT FOR BETTER PRICE

OBJECTIVES

To sensitise the participants Post Harvest Management, value addition and Hygienic handling.

CONTENTS

Export technology of Live Fish
 Processed Fish from Producer level to Consumer Level
 HACCP
 Harbour Management Societies
 Value addition and Hygienic handling.

PARTICIPANTS

Officers from Agriculture and Allied Sectors



22.06.2023 -24.06.2023 (3days)
GOOD AGRICULTURAL PRACTICES FOR SAFE FOOD.
OBJECTIVES
<ol style="list-style-type: none"> 1.To ensure safe food for the community. 2. To introduce Good Agricultural Practices in Agriculture
CONTENTS
<ul style="list-style-type: none"> • Introduction to Good Agricultural Practices • Integrated Nutrient Management • Integrated Pest Management • New generation Pesticides • Integrated Farming System Approach for Food Security.
PARTICIPANTS Officers from Agriculture and Allied Sectors



29.06.2023 to 01.07.2023 and 23.11.2023 to 25.11.2023 (3 days)

MILLETS - SMART FOOD FOR HEALTHY FUTURE

OBJECTIVES

- To Sensitise the participants about the importance of Millets and their diversified products.

CONTENTS

- Health Benefits
- Millets Vs Grains -Difference & Health Benefits.
- Cultivation aspects of various millets.
- Nutritional Value.
- Main streaming Millets for ensuring multiple securities during pandemics.
- Value addition in millets

PARTICIPANTS

Agricultural Officers & Assistant Directors of Agriculture.



03.07.2023 - 05.07.2023, 11.12.2023 - 13.12.2023 (3 days)

MEDIA AND PUBLIC RELATIONS AND FARM JOURNALISM

OBJECTIVES

Transfer of Technology through Farm Journalism

CONTENTS

- Farm Journalism Concepts and Principles
- Role of print media for Farm Journalism
- Short video production and Editing
- Mobile application for Farm Journalism.

PARTICIPANTS

Officers from Agriculture and Allied Sectors



05.07.2023 to 07.07.2023 23.01.2024 -24.01.2024 (3 days)

INTEGRATED PEST MANAGEMENT PRACTICES AND NEW GENERATION PESTICIDES

OBJECTIVES

- Introduction to Integrated Pest Management Practices in agriculture for safe food production
- Management of pest residue hazards

CONTENTS

- Importance of pest management in Agricultural sector
- Best control agents in Pest and disease control
- New generation pesticides and banned pesticides
- Nano fertilizers and its application
- IPDM in Banana
- IPDM in Vegetables



18.07.2023 - 20.07.2023 (3 days)

AQUACULTURE AND HATCHERY MANAGEMENT SKILLS

OBJECTIVES

- To sensitise the participants regarding Hatchery and Farm Management.

CONTENTS

- Nursery Management
- Analysing Farms Performance
- Live feed culture
- Seed production of Etroplus
- Crab fattening and Culture.
- Disease diagnosis and remedies

PARTICIPANTS

Officers from Agriculture and Allied Sectors



20.07.2023 - 22.07.2023 (3 days)

SMART AGRICULTURE FOR SMART FARMING

OBJECTIVES

Introduction of Smart Farming Concept in Agriculture Farmers of Kerala.
Introduction of artificial intelligence in Agriculture.

CONTENTS

- Open Precision Farming and Polyhouse Farming.
- Use of Drones in Agriculture.
- Introduction to IOT.
- New trends in Urban agriculture
- IOT in Agriculture
- Use of Drones in Smart Farming
- Advances in Drone Technology
- Demonstration on Drone applications in smart farming.



24.07.2023 – 26.07.2023 (3 days)
SCOPE OF POULTRY REARING AND POULTRY FARM MANAGEMENT
OBJECTIVES
<ul style="list-style-type: none"> • To sensitise the participants about the scope of Poultry Farm Management
CONTENTS
<ul style="list-style-type: none"> • Prospects and constraints of Broiler Industry • Modern Layer Farming • Poultry diseases and preventive measures
PARTICIPANTS Officers from Animal Husbandry Department



01.08.2023 - 03.08.2023 (3 days)
LATENT TRENDS IN AQUACULTURE
OBJECTIVES
<ul style="list-style-type: none"> • To sensitise the participants about the latest trends in Aquaculture.
CONTENTS
<ul style="list-style-type: none"> • Aquaponics • Biofloc • RAS, Live feed culture • Crab Culture and Fattening • Disease diagnosis and preventive measures • Cage culture
PARTICIPANTS Officers from Agriculture and Allied Sectors



03.08.2022 – 05.08.2022 (3 days)

EXPORT ORIENTATION IN AGRICULTURE

OBJECTIVES

- To double agricultural exports in the next few years implement a stable trade policy regime.
- To diversify export basket, destinations and boost high value and value added agricultural exports
- To promote novel, indigenous, organic, ethnic, traditional and non-traditional Agri products exports.
- To provide an institutional mechanism for pursuing market access,
- To strive to double India's share in world agri exports by integrating with global value chain Enable farmers to get benefit of export opportunities in overseas market.

CONTENTS

- Improve Infrastructure and logistics
- Holistic approach to boost exports
- Greater involvement of State Governments in Agriculture Exports
- Promoting value added exports
- Marketing and promotion of "Kerala Brand"
- Attract private investments in export oriented activities and infrastructure.
- Establishment of Strong Quality Regimen
- Research and Development

PARTICIPANTS

Agricultural Officers, Assistant Directors of Agriculture and Farm Officers



07.08.2023 - 09.08.2023 (3 days)

INSURANCE AND CREDIT MANAGEMENT IN AGRICULTURE

OBJECTIVES

- To Orient the Officers on Effective Management of Credit and Insurance in Farming Sector

CONTENTS

- Weather based crop insurance Schemes
- Crop Insurance
- Agri Infrastructure Fund
- Public Financial Management System
- Scale of Finance
- ICT in Agriculture - AIMS Portal(Natural Calamity, P M Kissan, Farmer's pension)

PARTICIPANTS

Agricultural Officers, Assistant Directors of Agriculture and Farm Officers



SOIL CONSERVATION AND ENERGY MANAGEMENT

09.08.2023 - 11.08.2023

OBJECTIVES

To Orient the Officers on methods and importance of soil conservation and energy management.

CONTENTS

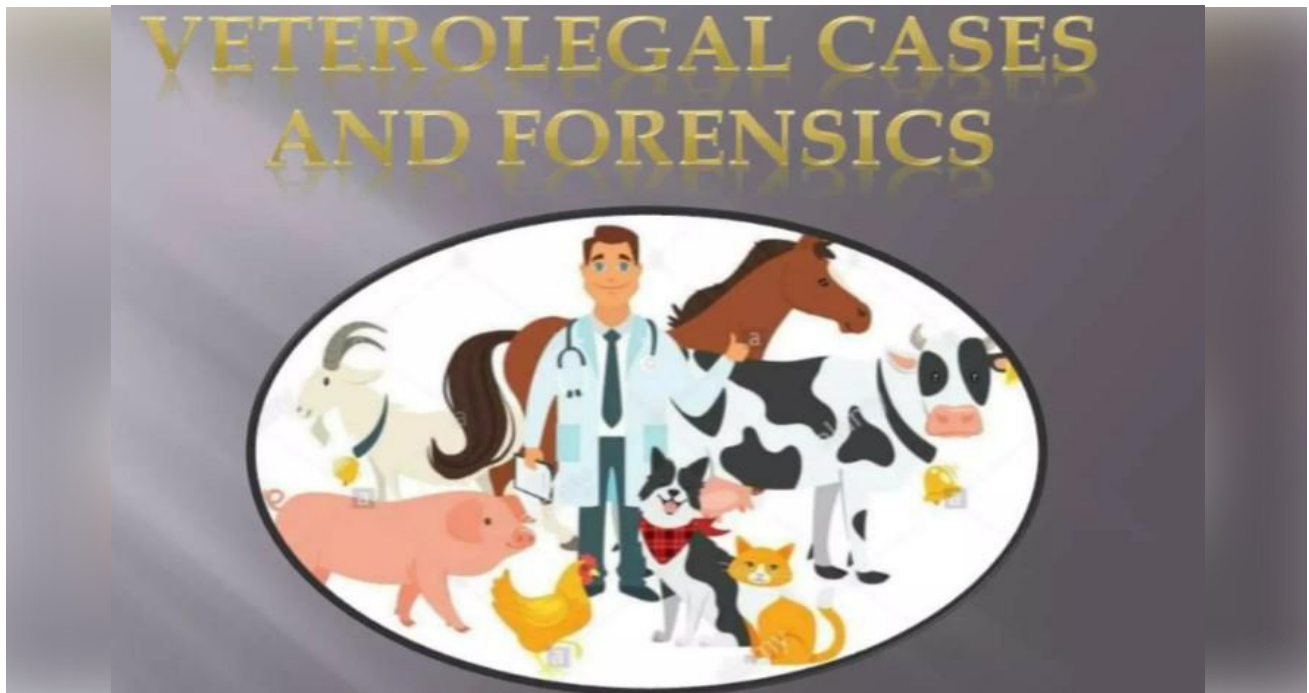
- Soil and water conservation methods and its importance
- Soil conservation practices and ways to conserve soil.
- Types of energy conservation
- Importance and benefits of energy conservation.

PARTICIPANTS

Officers from Agriculture and Allied Sectors



16.08.2023 – 18.08.2023
ENTREPRENEURSHIP DEVELOPMENT IN DAIRY SECTOR- OF ISSUES RELATED TO LIVESTOCK MANAGEMENT
OBJECTIVES
<ul style="list-style-type: none"> ● To orient the officers on entrepreneurship development to tap the prospects of Dairy Sector with the help of new technologies and social media
CONTENTS
<ul style="list-style-type: none"> ● Familiarising innovative models ● Scope of value addition and marketing of Dairy products ● To develop skills for entrepreneurship development ● Need for paradigm from Dairying & Dairy Business
PARTICIPANTS
Officers from Animal Husbandry and Dairy Development Departments



23.08.2023 – 25.08.2023
POST MORTEM TECHNIQUES FOR DISEASE DIAGNOSIS AND VETERO LEGAL CASES
OBJECTIVES
<ul style="list-style-type: none"> • Equip Veterinarians with Post Mortem techniques and Procedures related to veterolegal cases
CONTENTS
<ul style="list-style-type: none"> • PM Techniques in Large Animals • PM Techniques in Small Animals and Birds. • Procedures to be followed in veterolegal cases • Collection preservation and despatch of Materials for vetero legal cases
PARTICIPANTS Officers from Animal Husbandry Department.



**MANAGEMENT OF ZOOONOTIC DISEASES & SAFETY MEASURES
FOR DISASTER MANAGEMENT**

13.09.2023-15.09.2023

OBJECTIVES

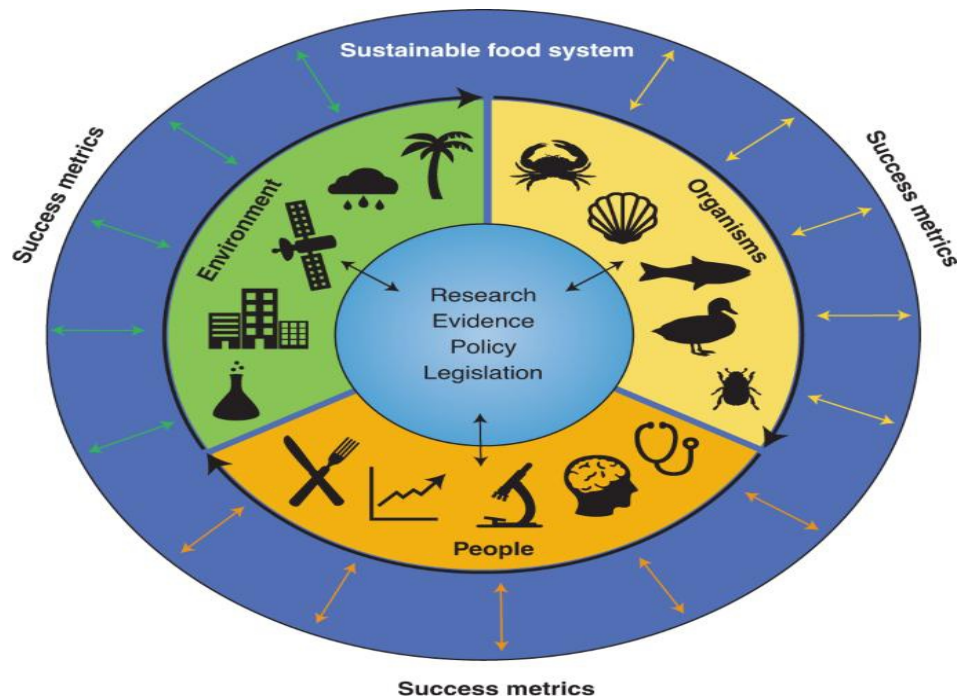
- To empower the Officials regarding Management of Zoonotic Diseases ,Safety measures to be under taken while culling of Animals and Birds.

CONTENTS

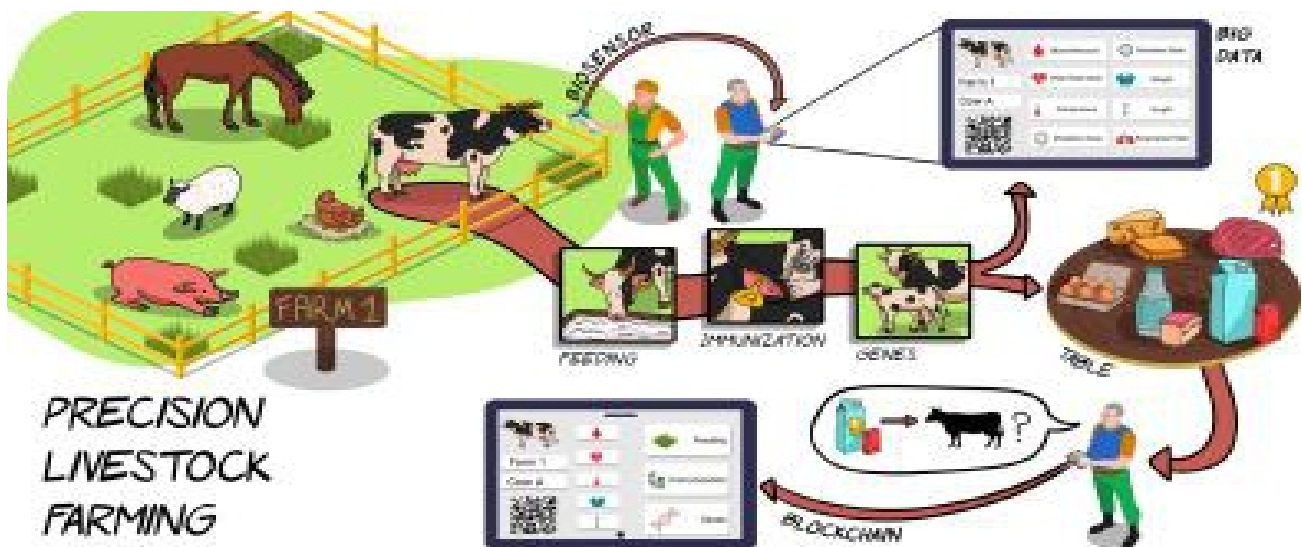
- Major Zoonotic diseases prevalent in Kerala
- Diagnosis of Zoonotic Diseases
- Culling Methods

PARTICIPANTS

- Officers from Animal Husbandry Professionals and staffs



18.09.2023 - 20.09.2023 (3 days)
LEGISLATIVES AND REGULATIONS IN AQUACULTURE
OBJECTIVES
<ul style="list-style-type: none"> • To acquaint the participants regarding the various Acts and rules ,farm Licencing and protection of habitats.
CONTENTS
<ul style="list-style-type: none"> • Inland Fisheries Act • Licencing of Farm • CAA ,Seed Act • Ecological Disruption, • Use of Antibiotics in aquaculture • Protection of Habitats • Disease diagnosis and remedies
PARTICIPANTS
Officers from Agriculture and Allied Sectors



28.09.2023 – 30.09.2023 (3 days)

TECHNOLOGIES OF LIVESTOCK BASED MANAGEMENT AND INNOVATIONS IN ANIMAL HOUSE AND FARM MECHANIZATION

OBJECTIVES

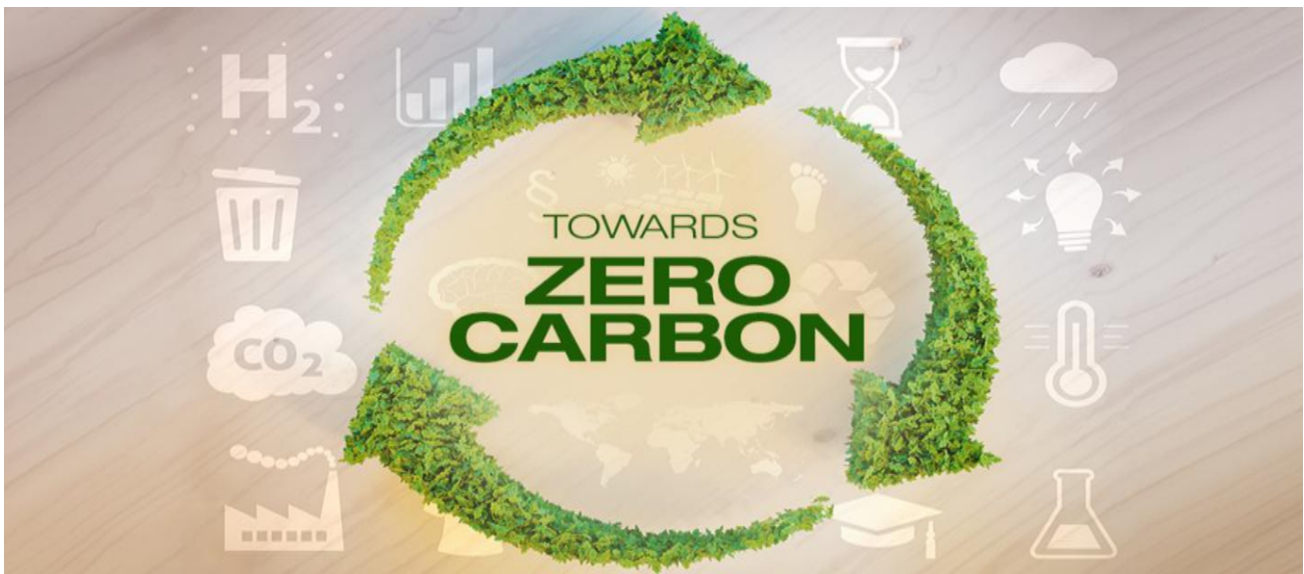
- Animal Husbandry and Nutrition
- Current Technology Applications
- Breeding and genetics
- Computer and internet usage
- Electronic identification
- Milking automation
- Feeding Automation

CONTENTS

- Biometric sensors, Big Data, Block Chain Technology advances modern animal farming.
- Precision livestock technologies require collaboration between farmers and engineers.
- Data privacy, security and integration are challenges in Big Data adoption for farming
- Digitalization of animal farming can supply tools for sustainable animal products.

PARTICIPANTS

Officers of AH& Dairy Departments



03.10.23- 05.10.23 (3days)

CARBON NEUTRAL AGRICULTURE

OBJECTIVES

- Offset carbon emissions
- Reduce the volume of greenhouse gases (GHG)
- Improve soil health by increasing soil fertility,
- Reduce soil salinity,
- Boost microbial activity and soil biodiversity
- Minimize soil erosion and nutrient runoff

CONTENTS

- Alternating monocultures with high-diversity crop rotations and integrated farming practices
- Substituting intensive application of chemical fertilizers with integrated nutrient management and precision farming
- Integration of trees into agriculture through cropland agro forestry
- Protecting carbon-rich soils that act as natural carbon sinks
- Use of compost to restore soil fertility and increase grassland carbon storage
- Use of residual biomass after harvest as organic to cover the soil, instead of burning

PARTICIPANTS

Agricultural Officers, Assistant Directors of Agriculture, Officers from Allied Departments



ORGANIC CERTIFICATION in INDIA

ORGANIC FARMING AND CERTIFICATION

09.11.2023 -11.11.2023

OBJECTIVES

To orient the Officers on importance of Organic Farming

CONTENTS

- Principles of organic farming, Mulching
- Nutrient status of various organic manures
- Preparation of bio pesticides and biostimulants
- Importance of organic farming in IFS.

PARTICIPANTS

Officers from Agriculture and Allied Sectors



16.10.2023 - 18.10.2023 (3 days)

ENTREPRENEURSHIP DEVELOPMENT IN FISHERIES SECTOR

OBJECTIVES

- To orient the officers on entrepreneurship development to tap the prospects of Fisheries Sector with the help of new technologies and social media

CONTENTS

- Familiarising innovative models
- Scope of Value Addition and marketing
- To develop skills for entrepreneurship development
- SAF and entrepreneurship development
- Matsyafed and entrepreneurship development

PARTICIPANTS

Officers from Agriculture and Allied Sectors



18.10.2023 – 20.10.2023, 14.11.2023 – 16.11.2023, 09.01.2024-11.01.2024 (3 days each)

INTEGRATED FARMING SYSTEMS APPROACH FOR SUSTAINABLE LIVELIHOOD

OBJECTIVES

- To create an awareness among the Officers the importance and scope of Integrated Farming Systems

CONTENTS

- IFS scope, its importance
- Components of farming system – crop production, dairy, goat rearing, piggery, poultry, duck, apiculture, fishery, sericulture, mushroom cultivation, agro forestry, biogas etc
- Successful farming models in India for rural livelihood
- Rural livelihood promotion through IFS
- Convergence of Development Departments for promoting IFS
- Role of extension personnel in promotion of sustainable IFS
- Developing extension strategies for promotion of IFS by the participants and back home planning

PARTICIPANTS

Officers from Agriculture and Allied Sectors



26.10.2023 - 28.10.2023
MECHANISATION ,VALUE ADDITION AND MARKETING IN DAIRY SECTOR
OBJECTIVES
<ul style="list-style-type: none"> • To acquaint participants on the recent trends in the Livestock Products
CONTENTS
<ul style="list-style-type: none"> • Product must be delivered consistently and have sufficient supplies to meet the demand. • A certification for food quality and safety. • Open Market Distribution and Processing Channel • Marketing Strategies • Scientific and Hygienic Processing of Poultry • Approaches for Value Addition • Common procedures adopted for value addition to meat and meat products • Major Limitations of Value addition of meat • Developments in packaging& Exporting
PARTICIPANTS
Officers from Animal Husbandry & Dairy Development Departments



06.11.2023 - 10.11.2023 (5 Days)

TRAINING HEALTH CARE, MANAGEMNT & CONTROL OF VIOLENCE IN CAPTIVE ELEPHANTS

Objectives

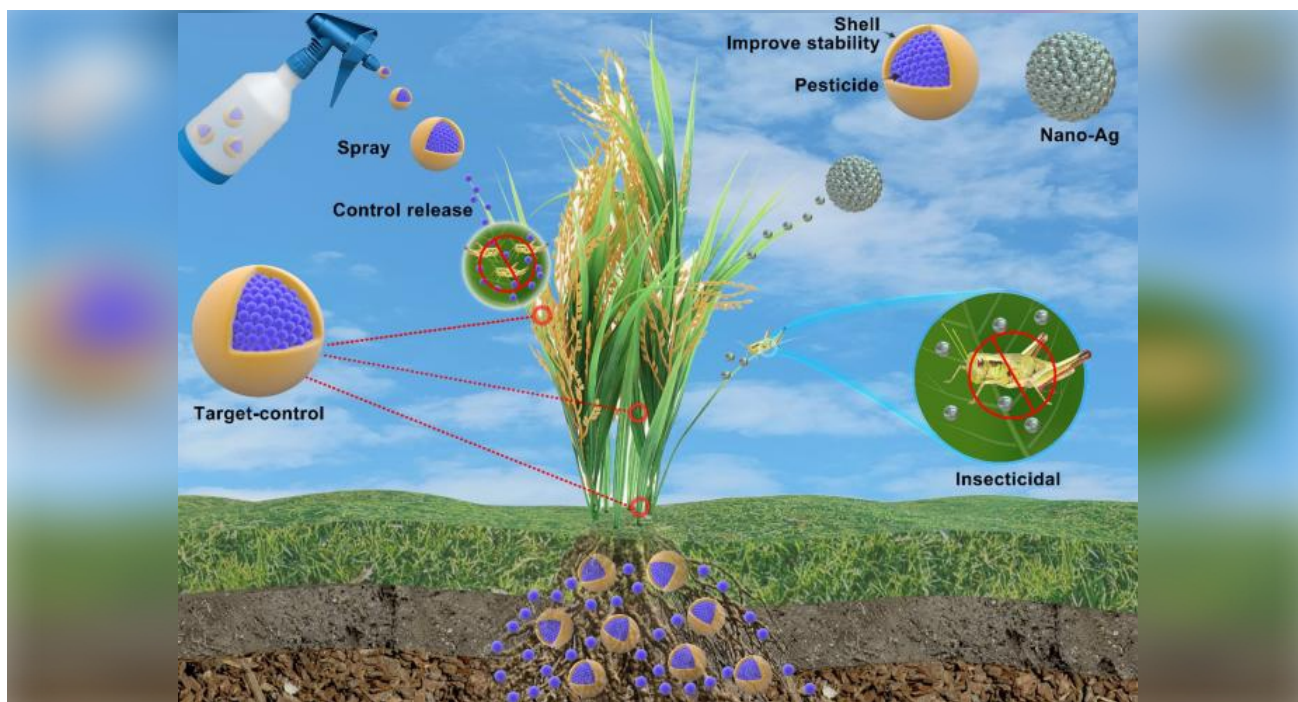
- To Empower Veterinarians in Health care, Management and Restraining Techniques
- Tranquilizing techniques in Violent Captive Elephants

CONTENTS

- Elephant Diseases
- Restraining during medication
- Hands on training in use of Guns(Remote Drug Delivery Equipments)
- Health care certification
- Field Visit

PARTICIPANTS

Field Veterinarians of Animal husbandry Department



NANO FERTILIZER AND PLANT PROTECTION MATERIALS

08.11.2023 -10. 11.2023

OBJECTIVES

To Orient the Officers regarding the role of Nano fertilizers and Plant protection materials in Agriculture.

CONTENTS

- Role of fertilizers and plant protection chemicals in Agriculture.
- Drones in agriculture
- Nanotechnology and Nano fertilizers.
- New generation Pesticides and Fertilizer molecules.

PARTICIPANTS

Agricultural Officers & Assistant Director of Agriculture



13.11.2023– 15.12.2023 (3 days)
BANKABLE PROJECT PREPARATION, MONITORING AND EVALUATION RTI AND OFFICE ADMINISTRATION
OBJECTIVES
<ul style="list-style-type: none"> • To empower the participants regarding the implementation of projects, office administration etc.
CONTENTS
<ul style="list-style-type: none"> • Detailed Project Preparation • Project Design, Analysis, Planning and Implementation • RTI • Office Administration and Management
PARTICIPANTS
Officers from Animal Husbandry & Dairy Development Departments



20.11.2023 - 22.11.2023 (3days)

ORNAMENTAL FISHERIES AND AQUARIUM KEEPING

OBJECTIVES

- To sensitise the participants about Ornamental fishes and aquarium keeping

CONTENTS

- Types of Ornamental fishes and breeding techniques
- Aquarium plants
- Entrepreneurship development in ornamental fisheries sector
- Diseases and management.

PARTICIPANTS

Officers from Agriculture and Allied Sectors



27.11.2023 - 29.11.2023

INNOVATIONS IN AGRICULTURE

OBJECTIVES

To get an Overview on:

- Contract farming
- Openprecision farming
- Ornamental horticulture
- Poly farming
- High value agriculture for small farmers

CONTENTS

- Innovations in agriculture
- Innovations in horticulture
- Rainshelter
- Poly Houses
- Shade Net Houses
- Precision Farming Technology

PARTICIPANTS

Officers from Agriculture and Allied Sectors



14.12.2023 - 16.12.2023
Pet birds & Pet animals, general management, disease control and marketing
Objectives-To Empower Veterinarians in Health care, Management and Disease control and Marketing of Pet Birds and Pet animals.
CONTENTS
<ul style="list-style-type: none"> • Varieties of Pet Birds & Pet animals • Disease Diagnosis and Treatment • Marketing • Succes stories ,Field Visit
PARTICIPANTS
Field Veterinarians of Animal husbandry Department



**OPTIMISING THE USE OF ICT & SOCIAL MEDIA -A TOOL FOR EFFECTIVE
AND EFFICIENT LEARNING**

28.12.2023 - 30.12.2023

OBJECTIVES

- Concept and Principles of Journalism with special reference to Farm Journalism
- Freedom of press
- Sincerity, truthfulness and accuracy
- Objectivity/impartiality

CONTENTS

- Providing information that the public needs to know
- Giving fair and truthful account of news
- Emphasizing the importance of free speech
- Spurring people to action

PARTICIPANTS

Officers from Agriculture and Allied Sectors



04.01.2024 to 06.01.2024

CLIMATE RESILIENT LIVESTOCK PRODUCTION

OBJECTIVES

To Empower Veterinarians to manage Adverse effect of Climate change in Livestock Production.

CONTENTS

- Adverse effect of Climate change in **Livestock Production**
- Summer management of Cattle, Pig, Poultry and Other Animals.
- Carbon Neutral Farming
- Modern concepts in climate resilient housing and rearing of animals.

PARTICIPANTS

Field Veterinarians of Animal husbandry Department



TRAINING WITH INDIAN INSTITUTE OF PACKAGING

OBJECTIVES

- To Empower the participants regarding packaging for export of Spices, Agricultural and Processed food products of Kerala.

CONTENTS

- Packaging of fresh fruits and vegetables, edible oil and fats, Spices, cereals and cereal products
- Product package design and development
- Shelf-life studies and testing parameters on final samples
- Preparatory support for packaging
- Packaging of Packaging of Packaging of Ancillary materials for food packaging
- Quality control and significance of testing.
- Importance of branding
- Advances in food packaging

PARTICIPANTS
Agricultural Officers

MANAGEMENT DEVELOPMENT PROGRAM (MDP)



MANAGEMENT DEVELOPMENT PROGRAMME FOR SENIOR OFFICERS OF AGRICULTURE AND ALLIED DEPARTMENTS

OBJECTIVES

- To hone up the managerial skills of senior officers of the department.
- To orient the Participants towards Motivation, Goal setting and Goal getting.
- To sensitise participants about importance of Leadership, Relationship and Team building skills.

CONTENTS

- Motivation and leadership for performance excellence
- Soft skills for management excellence.
- Time, Stress and Crisis Management Techniques
- Relationship and Team Building skills
- Problem solving through management games
- IT/ICT/Social media use and E Governance
- Experience Sharing

PARTICIPANTS

Senior Officers from Agriculture and Allied Sectors



INDUCTION TRAINING PROGRAMME FOR NEWLY RECRUITED OFFICERS OF AGRICULTURE AND ALLIED SECTORS

OBJECTIVES

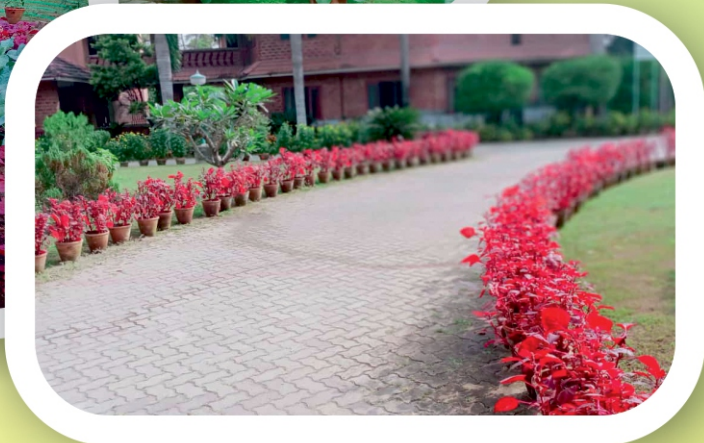
- To impart necessary knowledge and skills for effective performance in the field and office for newly recruited officers.

CONTENTS

- ICT Application
- Gender Sensitive Planning ,Implementation and Monitoring
- Leadership skills , Motivation and attitude for effective management
- Transactional Analysis and Ego gram
- Kerala Service Rules and maintenance of Office records
- Audit and Accounting
- Process Documentation
- Co- training programme on Successful Models of Convergence

PARTICIPANTS

Officers from Agriculture and Allied Sectors



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