

Annual Action Plan: 2020-2021**1. Training Programmes**
Quarter wise Summary of Trainings

Discipline	On Campus				Total	Off campus				Total	Grand Total
	I	II	III	IV		I	II	III	IV		
Crop production	2	1	1	2	6	2	1	2	1	6	12
Horticulture	1	1	2	2	6	2	1	2	1	6	12
Plant protection	1	1	2	1	5	2	2	1	1	6	11
Home Sci.	1	1	1	2	5	1	2	2	2	7	12
Animal Husbandry	1	1	2	2	6	2	2	1	1	6	12
Soil Health	-	-	-	-	-	1	1	-	-	2	2
Vocational Training	1	-	-	1	2	-	1	-	-	1	3
Ext. Functionaries	-	1	-	-	1	-	-	-	-	-	1
Sponsored	2	4	2	2	10	-	-	-	-	-	10
Total	9	10	10	12	41	10	9	8	6	34	75

A. On Campus Training Programs
For Farmers, Farm women and Rural youth

Quarter-I (April to June-20)				
Subject	Title of Training	No. of Days	No. of Parti.	Type of Parti.
Crop Production	Weed Management practices in important <i>Kharif</i> crops	1	20	Farmers
Crop Production	Seed production in major <i>kharif</i> crops	1	20	Farmers
Home Science	Value addition in agricultural produce	1	20	Farm Women
Horticulture	Nursery Raising techniques for vegetables	1	15	Rural Youth
Plant protection	Management of whitegrub in groundnut	1	20	Farmers
Animal Husbandry	ITK practices in disease management of farm animals	1	25	Farmers & Farmwomen
Quarter-II (July to September-20)				
Crop Production	Nursery Management techniques for various crops	1	20	Farmers
Home science	Income generation activities for empowerment of rural women	1	20	Farmwomen
Horticulture	Protected cultivation (Green house, Net house, tunnels)	1	20	Farmers
Plant	Integrated pest and disease	1	20	Farmers

Protection	management in <i>Kharif</i> crops			
Animal Husbandry	Silage management	1	20	Farmers
Quarter-III (October to December-20)				
Crop Production	Recent advances in production technology Fodder Crops	1	15	Farmers
Horticulture	Recent advances in production technologies of spices and vegetables	1	20	Farmers
Horticulture	Advanced production technology for chili	1	20	Farmers
Plant Protection	Integrated pest and disease management in <i>Rabi</i> crops	1	20	Farmers
Plant Protection	Storage pest management	1	20	Farmers
Home Science	Designing & development for high nutrient efficiency diet	1	20	Farm women
Animal Husbandry	Management of farm animals	1	20	Farmers/ Farmwomen
Animal husbandry	Health management in heard	1	20	Farmers
Quarter-IV (January to March-21)				
Crop Production	Production of Organic inputs (Vermicompost, FYM etc.)	1	20	Rural Youth
Crop Production	Integrated farming system	1	20	Farmers
Horticulture	Value addition in flowers & fruits	1	20	Farmwomen
Horticulture	Off seasonal vegetable cultivation	1	20	Farmers
Plant Protection	Integrated pest and disease management in vegetable crops	1	25	Farmers
Home Science	Rural Craft	1	20	Farmwomen
Home Science	Value addition in fruits & vegetable	1	20	Farmwomen
Animal Husbandry	Hygienic milk production and management of mastitis in milch animals	1	25	Farmers & Farmwomen
Animal Husbandry	Housing management in milch animals	1	20	Farmers & Farmwomen

**B. Off Campus Training Programs
For Farmers, Farm women and Rural youth**

Quarter-I (April to June-20)				
Subject	Title of Training	No. of Days	No. of Parti.	Type of Parti.
Crop Production	Advances in production technology of groundnut, cotton and INM	1	35	Farmers
Crop Production	INM in <i>kharif</i> crops	1	20	Farmers
Horticulture	Layout and Management of mango orchards; IPDM in mango	1	25	Farmers

Horticulture	Production of organic fruits	1	20	Farmers
Plant Protection	IPDM in major <i>kharif</i> crops	1	35	Farmers
Plant Protection	Stem & collar rot management in groundnut	1	20	Farmers
Home Science	Drudgery reducing technologies for farm women in agriculture and kitchen gardening	1	25	Farmwomen
Animal Husbandry	Disease, nutrition management & ITK practices in livestock	1	35	Farmers & Farmwomen
Animal Husbandry	Importance of vaccination in animals	1	25	Farmers & Farmwomen
Soil Health	Soil fertility management & soil sampling techniques	1	40	Farmers
Quarter-II (July to September-20)				
Crop Production	Crop diversification in the region	1	35	Farmers
Horticulture	Production Technology of Plantation Crops (Date Palm, Coconut)	1	30	Farmers & Farmwomen
Plant protection	Management of white grub in groundnut & pink ballworm in cotton	1	20	Farmers
Plant protection	Storage pest management	1	20	Farmers
Home Science	Nutritional diet for farm women, pregnant women, children & adolescent girls	1	35	Farmwomen
Home Science	Importance of vaccination and health care for infant	1	20	Farmwomen
Animal Husbandry	Care of pregnant animals and Care after calving	1	30	Farmwomen
Animal Husbandry	Artificial insemination	1	20	Farmers & Farmwomen
Soil Health	Soil fertility management & soil sampling techniques	1	25	Farmers
Quarter-III (October to December-20)				
Crop Production	INM and organic farming	1	35	Farmers
Crop Production	Advances in production technology of pulses	1	20	Farmers
Horticulture	Production & Management Technology of Spices (cumin, coriander)	1	25	Farmers
Horticulture	Cultivation of leafy vegetable in protected cultivation	1	20	Farmers
Plant Protection	IPDM in major <i>Rabi</i> crops	1	25	Farmers
Home Science	Preservation of fruits, vegetables and preparation of different types of masala	1	35	Rural Youth

Home Science	Nutritional diet for farm women, pregnant women, children & adolescent girls	1	30	Farmwomen
Animal Husbandry	Fodder Management	1	30	Farmers & Farmwomen
Quarter-IV (January to March-21)				
Crop Production	Advances in production technologies of rabi crops	1	35	Farmers
Horticulture	Cultivation of spices, onion and garlic	1	25	Farmers
Plant Protection	Biological control of pest & diseases in major crops	1	35	Farmers
Home Science	Preparation of bakery products	1	35	Farmwomen
Home Science	Value addition in dairy products	1	20	Farmwomen
Animal Husbandry	Deworming programme, control of parasites and artificial insemination in farm animals	1	25	Farmers

C. Vocational Training Programme

Sr No	Title of Training	Duration Days	No. of Parti.	Type of Parti.	Schedule quarter
1	Production of organic inputs (vermi composting)	7	15	Rural youth	I
2	Plug Nursery raising technique for business	7	15	Rural youth	IV
3	Skill development in recent trends (Computer; Beauty Parlour)	1 Month	15	Rural youth	-

D. Training Programme Extension Functionaries

Sr No	Title of Training	Duration Days	No. of Parti.	Schedule quarter
1	Integrated crop management- major crops	2	25	II

E. Sponsored Training Programme

Discipline	Title of Training	No. of Courses	No. of Parti.	Sponsoring Agency
Crop Production	Soil health management	2	55	ATMA
Horticulture	Production of organic spices	2	60	ATMA
Plant Protection	Integrated management of pink ball worm in cotton	2	65	ATMA
Plant Protection	Management of white grub in groundnut	2	65	ATMA
Animal Husbandry	Artificial insemination	2	80	ATMA
TOTAL		10	325	

2. Front Line Demonstrations

Physical targets of FLDs (Proposed)

Name of the crop/ enterprise	Season	Technology to be demonstrated	Variety	Area (ha.)/ No. of units	No. of Demo.	Approx. Cost/ FLD (Rs.)
Oilseeds						
Groundnut	<i>Kharif-2020</i>	Improved variety	GJG-22	4	10	2500/-
Pulses						
Green gram	Summer-2020-21	Imp. Variety	GAM-5	4	10	2000/-
Cereals						
Wheat	<i>Rabi-2020-21</i>	Improved variety	GJW-463	4	10	2000/-
Vegetable						
Onion	<i>Rabi-2020-21</i>	Improved Variety	GJRO-11	4	10	2500/-
Onion	<i>Rabi-2020-21</i>	Integrated Disease Management (for disc (root) roting)	Pillipatti	4	10	
Fruit Crops						
Mango	<i>Rabi – 2020-21</i>	IPM in Mango for fruit fly	Kesar	4	10	500/-
Commercial crops						
Cotton	<i>Kharif-2020</i>	Integrated management of pink ball worm	Bt. Variety	10	25	600/-
Kitchen Gardening						
Vegetables	<i>Kharif-2020</i>	Improved variety of 5 crops	Available at JAU, Junagadh	2.5	50	100/-
Vegetables	<i>Rabi - 2020-21</i>	Improved variety of 5 crops	Available at JAU, Junagadh	2.5	50	100/-
Bio-agents						
Chick pea	<i>Rabi-2020-21</i>	Bioagents – HNPV & <i>Beuveria</i>	GG-1/ Digvijay	4	10	500/-
Other Enterprise						
Animal Husbandry	-	Nutrient Management	Chelated Mineral Mixture	-	20	500/-
	-	Nutrient Management	Bypass fat	-	20	500/-
	-	Disease Management	Mineral mixture + Fenbendazole tablet	-	10	500/-
Home Science	-	Drudgery Reduction	Revolving Milking Stool Stand	-	5	-

3. On-Farm Testing

I. On Going

OFT-1

Title: Management of white grub in groundnut

Problem Definition: Low yield and heavy damage due to white grub

Technology Assessed: Integrated Pest Management

Treatments

1. **Farmer's practice** - Chloropyriphos @ 4 lit./ha at the time of attack
2. **Recommended practice** – Seed treatment with chloropyriphos 20 E.C @ 25 ml/kg, - application of carbofuran 3 G @ 33 kg/ha at the time of sowing.
3. **Intervention** – Soil application of *Metarhizium anisopliae* and *Beauveria bassiana* @ 2.5 Kg/ha. at the time of sowing.

Observations

1. Yield (kg/ha)
2. White grub population
3. Economics

Source of Technology: JAU, Junagadh

OFT: 2

Title: Integrated Nutrient Management in Summer chilli

Problem: Low production in Summer chilli

Details of Technologies

Technology Assessed: Integrated Nutrient Management

Treatments

1. **Farmer's practice** : 150-50-00 (kg NPK/ha)
2. **Recommended practice** : 100-50-50 (kg NPK/ha)
3. **Intervention** :

Recommended dose of fertilizer (RDF) + spraying of Banana pseudostem sap @ 1 % thrice. First spray at starting of flowering and another at 15 days intervals.

Observations

1. Yield
2. Economics (B:C ratio)

Source of Technology: NAU, Navsari

OFT – 3

Title - Effect of supplementation of concentrates on production of Gir cow

Problem Definition - Due to inadequate nutrient in daily ration, the fat % in milk and productivity of the animal decreased; financial loss

Technology Accessed - Supplementary feeding of concentrate

Treatments

1. Farmers practice
2. Feeding of concentrated mixture – 4 kg/animal/day
3. Feeding of concentrated mixture – 4 kg/animal/day + Mineral mixture (50 g/animal/day)

Experiment animal - 9 (3 animals/treatment)

Observations -
1. Milk yield (lit/day)
2. Income

Source of technology - Animal Nutrition Research Station, AAU, Anand

OFT – 4

Title - Comparison of solar Cooker with traditional cooking system

Objective

- ✓ To improve quality and nutrition of Prepared items
- ✓ To reduce drudgery of farm women
- ✓ To reduce time and fuel consumption

Treatments

1. Preparation by traditional method
2. Preparation by solar drying
3. Preparation by solar cooker

Items

- Mango murraba
- Boiled sweet potato
- Sweet corn
- Salted groundnut

No. of Replication: 5

Observations

1. Time consumption
2. Fuel consumption
3. Cost Saving
4. Organoleptic test (Taste; Texture; Consistency; Acceptance)

II. New OFTs

OFT - 1

Title - Assessment of Nitrogen Management in Wheat Crop

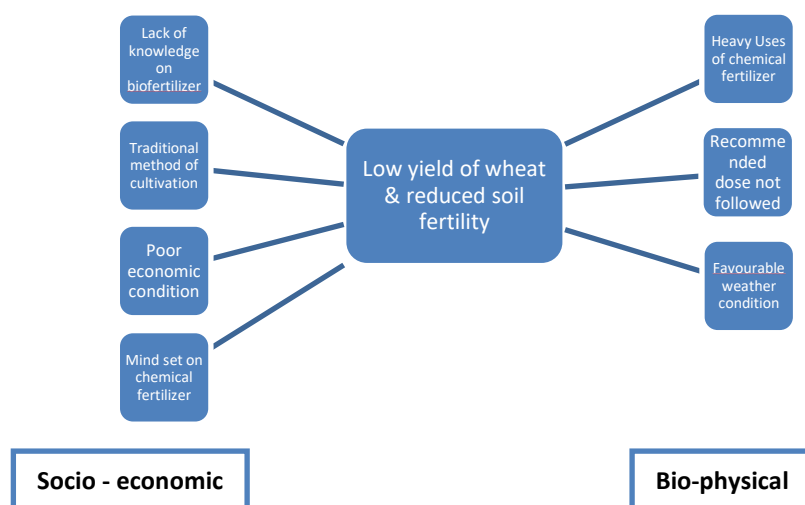
Problem Definition - Reduce yield and soil fertility
Technology Assessed- Integrated Nutrient Management
Treatments

1. **Farmer's practice** :- Application of only DAP & Urea in different doses
2. **Recommended practice** :- Application of Nitrogen @ 120 kg/ha in three splits (1/4 as basal + 1/2 at 20 to 25 DAS + 1/4 at 35 to 40 DAS) and 60 kg P₂O₅ & K₂O as basal
3. **Intervention**:- Application of *Azotobacter* & PSB culture (250g/10kg) + 75% of N & P₂O₅ (90-45 NP kg/ha) + 100 % K₂O (60 kg K/ha)

Observations

1. Yield (q/ha)
2. Economics

Source of Technology: JAU, Junagadh



4. Other Extension Activities

Sr No	Activity	No. of activities (Targeted)
1	Field Day	20
2	Kisan Mela	1
3	Kisan Ghosthi	20
4	Exhibition	5
5	Film Show	15
6	Method Demonstrations	-
7	Farmers Seminar	5
8	Workshop	1
9	Group meetings	4

10	Lectures delivered as resource persons	As & when required
11	Newspaper coverage	As & when required
12	Radio talks	-
13	TV talks	-
14	Popular Articles	10
15	Extension Literature	10
16	Farm Advisory Services	-
	Scientific visit to farmers field	As & when required
	Farmers Visit to KVK	1000
	Diagnostic Visits	As & when required
17	Exposure Visits	-
18	Ex-trainees Sammelan	2
19	Soil Health Camp	2
20	Animal Health Camp	2
21	Agri Mobile Clinic	-
22	Soil Test Campaigns	2
23	Farm Science Club conveners meet	-
24	Self Help Group conveners meetings	-

5. Seed production

Sr No	Crop/Plant	Area (ha)	Production (Q)
1	Groundnut GG-20, Breeder	10.0	80
2	Groundnut GJG-17, Breeder	2.0	25
3	Groundnut GJG-22, Breeder	1.0	15
4	Wheat GJW-463, Foundation	1.0	40

6. Planting Material

Sr No	Crop/Plant	Quantity (no)
1	Brinjal	5000
2	Tomato	5000
3	Chilli	5000
4	Papaya (<i>Madhubindu</i>)	1000

ATIC

1. Mango – Honey bee box – 1 farmer
2. Cotton – MDP – 5 farmer
3. Groundnut – GJG-22 – 10 farmer