II. ACTION PLAN (2009-10)

1. On Campus training

Subject	Title of Training	Dura Days	Probable date	No. of parti.	Type Of Parti.
I. Quarter :	**(1st October to 31st December, 2009)**				
Crop Production	- Improved cultivation practices for wheat & cumin	1	22/10/09	25	F
Plant Protection	- Plant protection measures for pest and disease in cumin	1	27/10/09	25	F
Horticulture	- Improved cultivation practices for vegetable including onion and garlic	1	30/10/09	25	F
Agril. Engg.	- Govt. subsidy in drips, sprinklers and agricultural implements.	1	02/11/09	25	F
Animal Science	- Low cost technology for higher milk production - Care & management of Animals during winter	1 1	10/11/09 21/12/09	25 25	F F
Home Science	- Kitchen gardening	1	24/12/09	25	FW
Extension Education	-Effect of global warming and climatic changes in Agriculture	1	28/12/09	25	F
II. Quarter : (1st January to 31st March, 2010)					
Crop Production	- Organic residue & farm waste management	1	20/02/10	25	F
Plant Protection	- Importance of IPM	1	10/03/10	25	F
Home Science	- Soybean –its importance in human diet and different preparations for high nutrient efficiency diet -Make SHG and trained them on income generating activities	1	09/01/10 17/02/10	25 25	FW FW
Agril. Engg.	- Efficient use of harvested water	1	15/01/10	25	RY
Animal Science	- Selection of breed of milch animals for economical milk production - Importance of colostrums in calves	1 1	07/01/10 18/02/10	25 25	FW FW
Extension Education	-Effect of global warming and climatic changes in Agriculture	1	17/03/10	25	F

III. Quarter : (1st April to 30th June, 2010)					
Crop Production	- Soil sampling methods - Production technology of cotton and groundnut - Judicious use of weedicides in field crops	1 1 1	11/05/10 21/05/10 18/06/10	25 25 25	F F F
Plant Protection	- IPM in Cotton	1	10/05/10	25	F
Home Sci	- Preparation of banana and potato wafers - Making soap and its article	1 1	22/04/10 23/06/10	25 25	RY RY
Extension Education	-Effect of global warming and climatic changes in Agriculture	1	20/04/10	25	F
Animal Science	- Increase nutritive value of low quality roughaghes for milch animals - Care and management of Buffallo during summer	1 1	10/04/10 01/05/10	25 25	F F
Agril. Engg.	- In-situ moisture conservation practices in dry Farming.	1	05/04/10	25	F
IV. Quarter : (1st July to 30th September, 2010)					
Plant Protection	- IPM in Castor	1	17/08/10	25	F
Crop Production	- Castor production technology	1	15/07/10	25	F
Agril. Engg.	- Rain water management technology	1	05/07/10	25	F
Home science	- Use of solar cooker - Training on income generating activities to SHG groups	1 1	03/08/10 13/08/10	25 25	FW FW
Ani. Science	- Importance and Use of green fodder in milk production	1	21/07/10	25	F
Extension Education	-Effect of global warming and climatic changes in Agriculture	1	10/08/10	25	F

2. Off Campus training

Subject	Title of Training	Dura Days	Probable date	No. of parti.	Type of Parti.
I. Quarter : (1st October to 31st December, 2009)					
Crop Production	- Integrated weed management in major rabi field crops	1	23/10/09	25	F
	- Efficient water management in major rabi field crops	1	29/10/09	25	F
Plant Protection	- Plant protection measures in Castor & Mustard crops	1	05/11/09	25	F
	- Control measures for pest and disease in Cumin and Wheat	1	11/12/09	25	F
Horticulture	- Importance of floriculture	1	20/11/09	25	RY
Animal Science	- Care and Management of Milch animals	1	07/11/09	25	F
	- Foot and Mouth disease and its control	1	19/11/09	25	F
Home science	-Use of sprouted pulses in preparation of low cost nutrition diet	1	09/11/09	25	FW
	- Preparation and preservation of fruits and vegetables	1	19/12/09	25	FW
	- Preparation and preservation of different types of pickles	1	21/12/09	25	FW
Agril. Engg.	- Trouble shooting of micro irrigation system	1	15/12/09	25	RY
II. Quarter : (1st January to 31st March, 2010)					
Crop Production	- Production technology of summer groundnut	1	05/01/10	25	F
	- Preparation of enriched Compost	1	17/03/10	25	F
Pl. Protection	- Efficient use of chemical pesticides	1	11/01/10	25	F
	- Precautions while handling pesticides	1	10/02/10	25	F
Horticulture	- Production technology of major arid fruit crops	1	21/01/10	25	F
Animal Science	- Importance of Artificial Insemination in animals	1	20/01/10	25	F
	- Care and management of calves	1	26/02/10	25	F
	- Selection of milch animals and culling of unproductive animals	1	05/03/10	25	F
Home Science	- Preparation and preservation of milk and milk product	1	19/02/10	25	FW
	- Drudgery reducing devices for farmwomen	1	20/03/10	25	FW
	- Gujarat handicraft and different stitches	1	25/03/10	25	RY

Agril. Engg.	- Introduction to new developed farm implements and their use - Selection and maintenance of pump sets	1 1	04/01/10 24/02/10	25 25	F RY
Agriculture Extension	- Awareness about extension activity of KVK - Formation of Kishan clubs	1 1	17/02/10 12/03/10	25 25	RY F
III. Quarter : (1st April to 30th June, 2010)					
Crop Production	- Integrated Nutrient Management in major Kharif field crops - Pure seeds production technique in sesame and groundnut	1 1	01/06/10 10/06/10	25 25	F F
Pl. Protection	- Management of pest and disease of Sesamum - IPM in Groundnut	1 1	08/06/10 15/06/10	25 25	F F
Animal Science	- Use of mineral mixture for balance feeding - Urea treatment in wheat straw	1 1	02/04/10 22/04/10	25 25	F F
Agril. Engg	- Introduction of effective & improved agricultural equipments	1	25/06/10	25	F
Home Science	- Scientific method of food grain storage Balance diet for pregnant women and children - Training on bag making and Candle making - Malnutrition in children and women	1 1 1 1	22/04/10 21/05/10 11/06/10 14/07/10	25 25 25 25	FW FW RY FW
Agriculture Extension	- Government subsidy schemes in agriculture	1	15/05/10	25	F
IV. Quarter : (1st July to 30th September, 2010)					
Crop Production	- Importance of Thinning, Gap filling & maintenance of Plant population in major Kharif crops - Production technology of Mustard & Gram	1 1	02/07/10 24/09/10	25 25	F F
Pl. Protection	- IPM in Vegetables - Control measures for pest and disease of kharif Pulses	1 1	12/07/10 24/08/10	25 25	F F
Agril. Engg.	- Farm implements and their use - Introduction and use of Chaff-Cutter.	1 1	08/07/10 09/08/10	25 25	F F
Animal Science	- Health care of livestock during monsoon - Preventive measure and first Aid treatment of IMP disease in dairy animals	1 1	03/07/10 20/08/10	25 25	F F
Home science	- Tomato preservation - Preparation of SHG	1 1	30/07/10 05/08/10	25 25	FW FW

3. Vocational Training

	Discipline	Title of Training	Dura. Days	Expected date	No. of parti	Type of Parti.
1.	Crop Production	Technique for vermi-composting	2	05-06/05/10	25	RY
2.	Home science	Preparation of different masala	2	10-11/03/10	20	FW
		Rice, urad papad, Khakhara and vadi making	2	13-14/04/10	20	FW
3	Animal science	Dairy farming	2	20-21/05/10	25	PF
4	Agril. Eng.	Repair & maintenance of sprayer, power sprayer & duster	2	07-08/04/10	25	RY

4. In service Training

	Title of Training	Dura. Days	No. of parti.	Type of parti.
1.	Cotton production technology	1	25	EW
2.	Pre-seasonal training on *Kharif* crops	1	25	EW
3.	Pre-seasonal training on *Rabi* crops	1	25	EW
4.	Nutrition Education to Anganwadi Worker	1	25	Anganwadi worker

5. Training Programme: Quarter wise Summary

Sr. No.	Subject	On Campus					Off Campus					G.T.
		I	II	III	IV	**T**	I	II	III	IV	**T**	
1.	Crop Production	1	1	3	1	**6**	2	2	2	2	**8**	**14**
2.	Horticulture	1	-	-	-	**1**	1	1	-	-	**2**	**03**
3.	Pl. Protection	1	1	1	1	**4**	2	2	2	2	**8**	**12**
4.	Home science	1	1	2	2	**6**	3	3	4	2	**12**	**18**
5.	Agril. Engineering	1	1	1	1	**4**	1	2	1	2	**6**	**10**
6.	Animal Science	2	2	2	1	**7**	2	3	2	2	**9**	**16**
7.	Agril. Extension	1	1	1	1	**4**	-	2	1	-	**3**	**07**
	Total	**8**	**7**	**10**	**7**	**32**	**11**	**15**	**12**	**10**	**48**	**80**

T = Total, G.T.=Grand Total, * I, II, III, IV = Quarter F=Farmers, FW=Farm women, RY=Rural Youth

6. Summary of Training Programme

Sr. No.	Subject	On campus	Off campus	Total
1.	Crop Production	6	8	14
2.	Horticulture	1	2	03
3.	Plant protection	4	8	12
4.	Home science	6	12	18
5.	Agril. Engineering	4	6	10
6.	Animal Science	7	9	16
7.	Agricultural Extension	4	3	07
	Total (A)	**32**	**48**	**80**
8.	- Vocational training	5	-	5
9.	- In service training	4	-	4
10.	- Sponsored / in-service	2	-	2
	Total (B)	**11**	**-**	**11**
TOTAL (A+B)		**41**	**46**	**87**

7. Physical Targets of FLD's to be conducted during 2009-10

Particulars of the FLD	Season	Crop	Area (in ha)	No. of Demo.
Oilseeds	*Kharif*	Groundnut	10.0	20
		Sesamum	5.0	10
	Rabi	Mustard	10.0	20
Pulses	*Kharif*	Green gram	5.0	10
		Moth bean	5.0	10
	Rabi	Gram	10.0	20
Other Crops	*Rabi*	Cumin	5.0	10
		Wheat	10.0	20
Other FLD				
1. Trichoderma culture	*Kharif*	Groundnut	2.0	04
2. Composting	*Kharif*	--	--	10
3. Cotton Mini-mission	*Kharif*	Cotton	20.0	50
4. Deworming of animal	--	Buffalo	--	20
5. Demonstration on Cotton + soya bean intercropping	*Kharif*	Cotton + Soya bean	1.5	03
		TOTAL FLD	**83.5**	**197**

8. Physical Targets of OFT's to be conducted during 2009-10

1. Application of *Trichoderma* against stem rot disease in G'nut.

Objective	**Management of stem rot in groundnut**
Reason for low yield of groundnut	1. Reduction in plant population/unit area due to disease at initial stage. 2. Pods detached from the plant and remains in the soil. 3. Disease problems. 4. Lack of knowledge for use of recommended control measures.
Technical Intervention	1. Management of stem rot through application of *Trichoderma* in Groundnut.
Treatments	1. Farmers practice (Control) 2. Mixing *Trichoderma* @ 2.5 kg/ha with castor cake @ 500 kg/ha at the time of sowing. 3. Soil drenching of *Trichoderma* @ 50 gm/10 litter of water using spray pump without nozzle.

2 Effect of supplementary irrigation on yield of Sesame.

Objective	**: Increase yield of sesame through supplementary irrigation.**
Reason for low yield of Sesame	1. Sesame is very sensitive to heavy or scare rains resulting instability in its productivity. 2. Rainfed condition. 3. Limited irrigation facilities. 4. Rainfall is generally insufficient and erratic in nature.
Technical Intervention	1. Apply life saving irrigation, (at 50 % flowering or at capsule Development stage) for maximize sesame yield and net returns.
Treatments	1. Farmers practice (Control) 2. Two irrigation 50 % flowering & capsule deve. stage. 2. Irrigation at 50 % flowering stage **or** Irrigation at capsule development stage. (Life saving)

3 Management of sucking pests in cotton.

Objective	**1. To minimize the sucking pests in cotton**
Reason for low yield of Cotton	1. Lack of knowledge about the use of particular pesticide. 2. Improper irrigation. 3. Unbalanced fertilization. 4. Farmers spray insecticides as per instructions given by local pesticide retailer. 5. Poor weed management
Technical Intervention	1. Management of sucking pests in cotton
Treatments	1. Farmers practice (Use of new insecticides with higher doses) 2. Use of old insecticides at recommended dose. 3. Alternate treatment one & two with recommended doses. ***New Insecticides :*** ***Old Insecticides :*** 1. Thiomethoxam 1. Dimethoate 2. Imidacloprid 2. Methyl-o-demetone 3. Acetamaprid

4 Reduction of Inter-Calving Period in Buffalo

Objective	To decrease the inter-calving period in Buffalo
Reason of long inter-calving period	i. Imbalance feeding i. Anestrous i. Poor management
Possible solutions	v. Use of mineral mixture v. Use of capsule like Bio-Heat, Prajana etc - Use of Hormone
Treatments	1. Group of dairy animals be fed with panacure (1.5 gm) + Bio-heat (1 No.) 2. Group of dairy animals be fed with panacure (1.5 gm) + vetcominforte (1 Kg) 3. Group of dairy animals be fed with Bio-heat (1 No.) + vetcominforte (1 Kg) 4. Group of dairy animals under control (Control)

5 Feeding of protein and energy rich diet to children to cure protein energy malnutrition in rural area (Age group – 1 to 3 years)

Objective	1. To cure malnutrition in rural child of age group of 1-3 years
Reason for protein energy deficiency	1. Lack of knowledge. 2. Poor economic condition. 3. Lack of nutritional management.
Possible solutions	2 Use of milk and different milk product. 3 Use of cereal, pulse and fat mixture. 3. Use of sprouted pulses, cereals and fat mixture.
Treatments	1. Use of recipes prepared from mixture of cereals (30 gm) + sprouted pulses (10 gm) + Ghee/oil (5 gm) for first group of children (Age group – 1 to 3 years) 2. Use of recipes prepared from mixture of cereals (30 gm) + pulses (10 gm) + Ghee/oil (5 gm) for second group of children (Age group – 1 to 3 years) 3. Use of milk or milk product for third group of children (Age group – 1 to 3 years) 4. Forth group of children (Control)

9. Method Demonstration

Sr No.	Name of demo unit
1	Urea treatment in wheat straw
2	Composting
3	Vermi composting

10. Other Extension activities

Sr. No.	Activity	Proposed number
1	Kisan mela	**01**
2	Field day	**15**
3	Kisan gosthi	**15**
4	Radio / TV talk	**03**
5	Film shows	**01**
6	Exhibition	**01**
7	News paper coverage	**10**
8	Popular articles	**10**
9	Extension literature	
	1. Folder / pamphlets	**10**
	2. Slides	**--**
	3. Video film show	**01**
10	Advisory services	**As & when required**
11	Animal treatment camp	**05**
12	Diagnostic services	
	1. Farmers visit to KVK	**--**
	2. Scientists visit to farmers field	**As & when required**
13	Kisan Mahila Meeting	**02**
14	Celebration of important days (Nutrition day/Women's day)	**01**