

➤ **FARMERS/FARM WOMEN TRAINING PROGRAMME**

❖ **AGRONOMY/CROP PRODUCTION**

S. NO	TOPIC	THEMATIC AREA	COURSE CONTENT	MONTH	LOCATION
1.	Improved agronomic practices for maize cultivation	Integrated crop management	<ul style="list-style-type: none"> ▪ Selection of varieties ▪ Required manures and fertilizers & Seed rate ▪ Land preparation & Method of sowing 	May	Baljaralla
2.	Improved production technology of Rice	Integrated crop management	<ul style="list-style-type: none"> ▪ Selection of varieties ▪ Fertilizer Schedule ▪ Seed rate and nursery bed preparation ▪ Field preparation and time of transplanting ▪ Method of transplanting 	June	Palma Nagrota
3.	Improved cultivation practices for Mustard and Gobi sarsoon.	Integrated crop management	<ul style="list-style-type: none"> ▪ Selection of varieties ▪ Fertilizer schedule, seed rate and nursery bed preparation ▪ Field preparation and time of transplanting ▪ Method of transplanting 	September	Sailsui
4.	Improved Agronomic practices for wheat cultivation	Integrated crop management	<ul style="list-style-type: none"> ▪ Selection of varieties, Land preparation ▪ Fertilizer Schedule & Seed rate ▪ Method of sowing ▪ Weed management module 	October	Thandakassi
5.	Management of Congress grass	Weed management	<ul style="list-style-type: none"> ▪ Selection of herbicides ▪ Application of herbicides 	Jan, 2013	Narian

❖ **HORTICULTURE**

S. NO	TOPIC	THEMATIC AREA	COURSE CONTENT	MONTH	LOCATION
1	Nursery Management in vegetable crops .	Nursery management	<ul style="list-style-type: none"> ▪ Raised bed ▪ Line sowing ▪ Proper depth of seed ▪ Length and width of bed 	April	Balshama

2	Planting techniques of fruit plants.	Integrated plant management	<ul style="list-style-type: none"> ▪ Proper time of pit digging ▪ Shape and size of pits ▪ Time of digging of pits ▪ Method of filling of pits 	May	Nowshera
3	Training and pruning of fruit plants.	Integrated plant management	<ul style="list-style-type: none"> ▪ Objectives of training and pruning ▪ Training and pruning methods 	July	Chatiyar
4	Popularization of cultivation practices of Exotic vegetables.	Integrated crop management	<ul style="list-style-type: none"> ▪ Importance of nutritional value ▪ Selection of varieties ▪ Recommended manures fertilizer ▪ Method of sowing 	August	Dangri
5	Time and method of fertilizers application in fruit plants	Integrated plant management	<ul style="list-style-type: none"> ▪ Proper fertilizer application ▪ Time of fertilizer application ▪ Methods of fertilizer application 	September	Manzakot
6	Management of young plants / orchard of fruit plant.	Integrated plant management	<ul style="list-style-type: none"> ▪ Time of irrigation ▪ Making of ring ▪ Mulching of plants ▪ Method of center opening 	October	Dalogra
7	Training and pruning of fruit plants.	Integrated plant management	<ul style="list-style-type: none"> ▪ Objectives of training and pruning ▪ Training and pruning methods 	Nov	Kandi
8	Protected cultivation of vegetable crops	Polyhouse cultivation	<ul style="list-style-type: none"> ▪ Selection of sowing time ▪ Use of low cost polyhouse ▪ Techniques of raising seedlings 	December	Siot
9	Off season cultivation practices of cucurbitaceous vegetable	Polyhouse cultivation	<ul style="list-style-type: none"> ▪ Selection of sowing time ▪ Use of low cost polyhouse ▪ Techniques of raising seedlings 	Jan, 2013	On- Farm
10	Training and pruning of fruit plants.	Integrated plant management	<ul style="list-style-type: none"> ▪ Objectives of training and pruning ▪ Training and pruning methods 	Feb	Dhankot

11	Improved cultivation practices of <i>Solanaceous</i> vegetable	Integrated crop management	<ul style="list-style-type: none"> ▪ Selection of varieties ▪ Method of sowing ▪ High yielding varieties ▪ Recommended fertilizer application 	March, 2013	Thanadpani
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❖ **PLANT PROTECTION**

S. NO	TOPIC	THEMATIC AREA	COURSE CONTENT	MONTH	LOCATION
1.	Safe storage of grains	IPM	<ul style="list-style-type: none"> ▪ Major pests and their control measures 	April	Saranoo
2.	Management of major disease of vegetables viz. Chilli, Tomato, Cauliflower, and Knolkhol	IDM	<ul style="list-style-type: none"> ▪ Diagnosis of the major disease ▪ Management practices for disease ▪ Predisposing factors of the disease 	May	Tuddi
3.	Integrated Pest Management in Cucurbitaceous crops	IPM	<ul style="list-style-type: none"> ▪ Diagnosis of different pests ▪ Management practices for the pest 	June	Bakhar
4.	Integrated Pest Management in fruit crops viz. Pomegranate, Citrus, Guava, Stone fruits	IPM	<ul style="list-style-type: none"> ▪ Diagnosis of different pest ▪ Management practices for the pest 	July	Manzakot
5.	Integrated Pest management in pulses	IPM	<ul style="list-style-type: none"> ▪ Diagnosis of different pest ▪ Management practices for the pest 	August	Palma
6.	Integrated disease management of kharif cereals viz. Paddy and Maize	IDM	<ul style="list-style-type: none"> ▪ Diagnosis of the major disease ▪ IDM approaches of major diseases 	Sept	On farm
7.	Integrated pest management in Tomato and brinjal crops	IPM	<ul style="list-style-type: none"> ▪ Diagnosis of different diseases ▪ Management practices for diseases 	October	Ku wala Kheter
8.	Integrated pest management in cole crops	IPM	<ul style="list-style-type: none"> ▪ Diagnosis of different diseases ▪ Management practices for diseases 	Nov	Sunderbani

9.	Integrated Pest management of oilseed crops	IPM	<ul style="list-style-type: none"> ▪ Diagnosis of different pests ▪ Management practices for the pest 	Feb, 2013	Chatiyar
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❖ **AGROFORSETRY**

S. NO	TOPIC	THEMATIC AREA	COURSE CONTENT	MONTH	LOCATION
1.	Nursery raising of multipurpose fodder trees and grasses	Nursery management	<ul style="list-style-type: none"> ▪ Multipurpose fodder trees and shrubs of the district. ▪ Nursery techniques and cultural practices 	April	Siot
2.	Cultivation of fodder grasses	Production technology	<ul style="list-style-type: none"> ▪ Suitable fodder grasses ▪ Period of plantation and their management. ▪ Agroforestry system. 	May	Dalori
3.	Planting multipurpose trees and shrubs in Agro forestry	Integrated farming system	<ul style="list-style-type: none"> ▪ Multipurpose trees and shrubs ▪ Nursery techniques, Management practices and cultural Practices 	June	Narian
4.	Cultivation of medicinal and aromatic plants under Agroforestry system	Medicinal and aromatic plants	<ul style="list-style-type: none"> ▪ Prospects of MAPs plants in Rajouri ▪ Cultivation practices of important ▪ Medicinal and aromatic plants. ▪ Utilization of their products, govt. Support system. 	July	On-Farm
5.	Agroforestry for sustainable land use	Integrated farming system	<ul style="list-style-type: none"> ▪ Sustainability ▪ Periodic cultivation of tree species ▪ Agri. Crops, MAPs & horticultural crops 	August	Manjakot
6.	Improved fodder production	Production technology	<ul style="list-style-type: none"> ▪ Fodder productivity in the district ▪ Round the year fodder production 	October	Rinikhater

			<ul style="list-style-type: none"> ▪ Storage of fodder grasses 		
7.	Methods of seed collection of important Agroforestry tree	Production technology	<ul style="list-style-type: none"> ▪ Importance of seed collection ▪ Methods and time of collection ▪ Cleaning and storage of seed 	Nov	On Farm
8.	Nursery establishment and production technology of fodder trees in winter	Production technology	<ul style="list-style-type: none"> ▪ Propagation techniques of ▪ Deciduous fodder trees. ▪ Nursery management and their transplantation. 	December	Thandikassi
9.	Nursery Techniques of <i>Grewia</i> and <i>Celtis</i>	Nursery management	<ul style="list-style-type: none"> ▪ Importance of <i>Grewia</i> and <i>Celtis</i> as off-season fodder ▪ Cultivation of management of under Agroforestry system 	January 2013	Dhanidhar
10.	Pollarding and lopping techniques for higher productivity	Production technology	<ul style="list-style-type: none"> ▪ Importance of lopping and pollarding ▪ Improved lopping and pollarding 	February	Kallar

❖ **EXTENSION EDUCATION**

S. NO	TOPIC	THEMATIC AREA	COURSE CONTENT	MONTH	LOCATION
1.	Formation of farm clubs for easy accessibility to institutional finance	Mobilization of social capital	<ul style="list-style-type: none"> ▪ Concept of farmer club ▪ How to farm farmers club 	June	Chananibagla
2.	Pooling of resources for increased benefits	Entrepreneurial development of farmers/rural youth	<ul style="list-style-type: none"> ▪ How to have access to the resources ▪ How to use the resources ▪ How to conserve resources 	July	Chowkian
3.	Promotion of organic farming for sustainable agriculture	WTO and IPR issues	<ul style="list-style-type: none"> ▪ Concept, Need, Importance and scope for sustainable agriculture, Organic practices and 	August	Lambari

			processes in Agriculture; Marketing of organic products		
4.	Promotion of mechanization for profitable agriculture	WTO and IPR issues	<ul style="list-style-type: none"> ▪ Mechanization for water management to enhance water productivity and sustainability, Precision farming, Govt. schemes for promotion of farm mechanization, 	Sept	Pooha
5.	Sensitizing farmers to avail crop insurance against natural calamities	Leadership Development	<ul style="list-style-type: none"> ▪ Type of crop insurance ▪ How to avail crop insurance ▪ Formalities in availing insurance 	October	Bal jarralan
6.	Utilization of Term Loan through Kissan Credit Card	Mobilization of social capital	<ul style="list-style-type: none"> ▪ Concept ▪ Purpose of Loan ▪ Utilization 	Nov	Sunderbani
7.	Sensitizing rural women for carrying out farm operation in scientific way	Mobilization of social capital	<ul style="list-style-type: none"> ▪ At what time each operation should be done ▪ How to do, what is to be done ▪ Drudgery Reduction Technologies for farm women 	Jan, 2013	Behrote

❖ **AGRICULTURAL ENGINEERING**

S. NO	TOPIC	THEMATIC AREA	COURSE CONTENT	MONTH	LOCATION
1.	Training on Zero Till Drill Machine, Seed drill and Maize planter machine for sowing operation	Repair and maintenance of farm implements	<ul style="list-style-type: none"> ▪ Components, Function, Calibration and Maintenance. 	April	Fatehpur
2.	Demonstration on various types of Harvesting tools	Repair and maintenance of farm machinery	<ul style="list-style-type: none"> ▪ Different types of harvesting tools and their advantages 	May	On Farm
3.	Demonstration of Multi-crop thresher and Maize Sheller	Repair and maintenance of farm	<ul style="list-style-type: none"> ▪ Components, Installation, preventive measures 	June	On farm

		machinery	and trouble shooting		
4.	Methods of soil and water conservation and its benefits	Resource conservation	<ul style="list-style-type: none"> ▪ Types of soil and water erosion, Effect of erosion, Preventive measure for soil and water erosion 	July	Thandi pani
5.	Storage structure , Harvesting tank and its benefits for improved cultivation practices	Resource conservation	<ul style="list-style-type: none"> ▪ Site selection for catchment area, Construction of storage structure and Harvesting tank , Water conservation techniques and methods of irrigation. 	August	Behrot
6.	Storage loss minimization techniques by improved storage structures	Post harvest care and storage of crops.	<ul style="list-style-type: none"> ▪ Care and handling of crops after harvest ▪ Storage of crops. 	September	Manjakot
7.	Demonstration of power tiller for economic farm operation in Hilly terrains.	Repair and maintenance of farm machinery and implement	<ul style="list-style-type: none"> ▪ Components, Working Handling Troubles and remedies ▪ Attachment of cultivator Disc plough , Disc harrow and Cage wheel 	October	Dhanore
8.	Demonstration of Zero Till Drill Machine	Conservation Tillage	<ul style="list-style-type: none"> ▪ Component, Function, Calibration and maintenance. 	Nov	Sunderbani
9.	Handling and Maintenance of Engine and Centrifugal Pump.	Repair and maintenance of farm machinery and implement	<ul style="list-style-type: none"> ▪ Starting, Repair & Maintenance, General Troubles and Remedies. 	February	Dangri
10.	Care and maintenance of farm implements and machine	Repair and maintenance of farm machinery and implement	<ul style="list-style-type: none"> ▪ Components, Repair and maintenance of different implements such as Hand Hoe, Disc Plough, Disc Harrow, cage wheel and Rotavator 	March	On farm

❖ **LIVESTOCK PRODUCTION AND MANAGEMENT**

S. NO	TOPIC	THEMATIC AREA	COURSE CONTENT	MONTH	LOCATION
1.	Vaccination in animals (Cattle and Buffaloes)	Disease management	<ul style="list-style-type: none"> ▪ Importance of vaccination in animals ▪ Vaccination schedule in animals 	August	Dassal
2.	Disease management in animals		<ul style="list-style-type: none"> ▪ Various types of Ecto/ Endoparasites ▪ Their management 	Sept	Kotranka
3.	Improving livestock feeding for enhancing production	Feed management	<ul style="list-style-type: none"> ▪ Urea treatment ▪ Balanced ration formulation 	October	Arghi
4	Clean milk production	Dairy management	<ul style="list-style-type: none"> ▪ Importance of clean milk production. ▪ Clean milk production techniques ▪ Transportation of milk 	Nov	Pukhrani
5.	Backyard Poultry production	Poultry production	<ul style="list-style-type: none"> ▪ Important breed feed management vaccination 	December	Kalakote

❖ **HOME SCIENCE**

S. NO	TOPIC	THEMATIC AREA	COURSE CONTENT	MONTH	LOCATION
1	Homescale preparation of complementary foods for infants and young children	Woman and child care	<ul style="list-style-type: none"> ▪ Importance of complementary foods ▪ Nutritive value 	May	Dalogra
2	Promotion of Income generating activities in agriculture for farm women through SHG's	Income generation activities for empowerment of rural women's	<ul style="list-style-type: none"> ▪ Scope of Income generating units ▪ SHG's 	July	Dhangri
3	Planning and prep. of Iron Rich Diet for Vulnerable population	Designing and development for high nutrient efficiency diet	<ul style="list-style-type: none"> ▪ Iron rich Diets ▪ Planning of Diet Chart 	Sept	Sawni
4	Promotion and maintenance of kitchen Garden for nutritional adequacy of family	Household food security by kitchen gardening and nutrition gardening	<ul style="list-style-type: none"> ▪ Maintenance of kitchen Garden ▪ Nutritional adequacy of family 	Feb, 2013	Lookote

➤ **IN-SERVICE TRAINING PROGRAMMES**

S.NO	TOPIC	THEMATIC AREA	COURSE CONTENT	MONTH	DURATION
1	Recent advance in farm machinery	R&M	<ul style="list-style-type: none"> ▪ Improved farm implements ▪ Resource conservation technology 	May	1 Day
2	Farmer Field Schools for effective delivery of agricultural information	Group dynamics	<ul style="list-style-type: none"> ▪ Agro-eco system analysis ▪ Facilitation skills ▪ Case studies of successful FFS 	June	1 Day
3	Organic farming for high value crops.	Resource Conservation Technologies	<ul style="list-style-type: none"> ▪ Components and principles ▪ Certification procedures and standards 	July	1 Day
4	Potential of medicinal and aromatic plants under integrated land use	Medicinal & aromatic plants	<ul style="list-style-type: none"> ▪ Components of Integrated system ▪ MPTs ▪ Role of MAPs 	Aug	1 Day
5	WTO and its implication on Indian agriculture	WTO and IPR	<ul style="list-style-type: none"> ▪ Concept of WTO ▪ Role of WTO in changed scenario 	Sept.	1 Day
6	Integrated disease & pest management in Rabi crop	IDM&IPM	<ul style="list-style-type: none"> ▪ Important diseases and pests of wheat, oat, mustard and their management ▪ Diagnosis of the diseases 	October	1 Day
7	Improved fodder production for overwhelming fodder scarcity	Fodder production	<ul style="list-style-type: none"> ▪ Important fodder trees of the area. ▪ Cultivation practices of fodder trees, grasses and legumes and management under Agro forestry system 	Nov	1 Day

8	Popularization of exotic vegetables for nutrition and food diversification in District Rajouri	Horticulture	<ul style="list-style-type: none"> ▪ Introduction Exotic vegetables ▪ Improved cultivation technology of exotic vegetables ▪ Nutritional properties of exotic vegetables 	Dec	1 Day
9	Methodology for Impact Evaluation of Extension Programmes	Capacity building	<ul style="list-style-type: none"> ▪ Impact evaluation ▪ Methods ▪ Collection of Data ▪ Indicators 	Jan	1 Day
10	Canopy management in high density orchards	Rejuvenation of old orchards	<ul style="list-style-type: none"> ▪ Centre opening ▪ Canopy management for better productivity 	Feb	1 Day

➤ **VOCATIONAL TRAINING PROGRAMMES**

S.NO	TOPIC	COURSE CONTENT	MONTH	LOCATION	DURATION
1.	Training and pruning of fruit plants	<ul style="list-style-type: none"> ▪ Training of fruit plants ▪ Pruning of Fruit plants 	July	On Farm	2 Days
2.	Cultivation Medicinal and aromatic plant	<ul style="list-style-type: none"> ▪ Important medicinal and aromatic plants ▪ Economics and Importance of important MAPs ▪ Contract farming system of MAP's ▪ Visit to herbal garden 	September	On Farm	2 days
3.	Poultry Management	<ul style="list-style-type: none"> ▪ Poultry feeding, Common diseases ▪ Care and management. 	September	On Farm	2 days
4.	Mushroom cultivation	<ul style="list-style-type: none"> ▪ Food value of mushrooms, Method of composting ▪ Spawn and method of spawning' Casing ▪ Cultivation of White button mushroom 	October	On Farm	2 days
5.	Nursery management and off season cultivation of	<ul style="list-style-type: none"> ▪ Selection of sowing time ▪ Techniques of nursery raising ▪ Use of Low cost polyhouse 	Nov	On Farm	2 days

	vegetable crops	<ul style="list-style-type: none"> ▪ Economic 			
6.	Processing and preservation of locally available fruits and vegetables	<ul style="list-style-type: none"> ▪ Nutritive value of local fruits/vegetables ▪ Processing techniques 	Dec	On Farm	2 days
7.	Developing entrepreneurial skills among rural youth	<ul style="list-style-type: none"> ▪ Concept ▪ Problem in becoming successful entrepreneur ▪ How to overcome problem faced by entrepreneurs 	Jan	On Farm	2 days

➤ **ADAPTIVE TRIALS/ ON FARM TRIALS**

DETAILS OF ON-FARM TRIALS

A. Kharif

1. Evaluation of appropriate weeding tool for dryland maize of Rajouri district.
2. Varietal evaluation of Okra under intermediate condition.
3. Evaluation of improved fodder grasses under intermediate conditions.
4. Management of blister beetle in Maize

B. Rabi

1. Economic analysis of different methods of sowing wheat crop.
2. Varietal evaluation of knolkhol under intermediate condition.
3. Evaluation of *Emblica officinalis* N-7 under intermediate conditions.
4. Evaluation of different varieties of oats under intermediate conditions.
5. Economic appraisal of nutrient management in wheat.

TECHNICAL PROGRAMME OF ON-FARM TRIALS

Kharif

1. Evaluation of appropriate weeding tool for dryland maize of Rajouri district.
T1: Gudnu/Khurpi (Farmers practice).
T2: Chemical control (Atrazine).
T3: Wheel hand hoe/ Double end hoe.
1. Varietal evaluation of Okra under intermediate condition.
T1: Parbhani kranti (Farmers Practice)
T2: Arka anamika
T3: Varsha uphar
2. Evaluation of improved fodder grasses under intermediate conditions
T1: Natural grass (Farmers practice)
T2: *Napier* hybrid
T3: *Setaria*
3. Management of blister beetle in Maize
T1: Farmers practices (No application of pesticide)
T2: Recommended package and practice (Endosulfan/Carbaryl and Trap crops).
T3: Integrated pest management

Rabi

1. Comparative performance, evaluation of different methods of sowing wheat under Rajouri conditions.
T1: Farmer practice (Broadcasting).
T2: Line Sowing (Seed and fertilizer both)
T3: Sowing with zero till seed cum fertilizer drill.
2. Varietal evaluation of knolkhol under intermediate condition.
T1: King of market (Farmers practice)
T2: White vienna
T3: G-40
3. Evaluation of *Emblica officinalis* N-7 under intermediate conditions.
T1: Farmers practices (Local variety scattered)
T2: N-7 planted at 6m x 6m
T3: N-7 planted at 8m x 8m.
4. Evaluation of different varieties of oats under intermediate conditions.
T1: Sabjar (Farmers practice)
T2: Palampur 1
T3: Kent
4. Economic appraisal of nutrient management in wheat.
T1: Farmers practice (Imbalance application of fertilizers and seed)
T2: Recommended application of seed and fertilizer. (N-60kg, P₂O₅- 30kg, K₂O=20kg Seed-100kg).
T3: Recommendations of DWR for NW Himalayan region (N-90 kg, P₂O₅-30kg, Seed-120kg).

➤ **FLD'S TO BE LAID IN 2012-13 (PROPOSED)**

CROP	AREA (ha)
A) OIL SEED	
a) Mustard	3.0
b) Gobi sarson	3.0
B) PULSES	
a) Mash	3.0
C) CEREALS	
a) Maize	10.0
b) Wheat	10.0
c) Rice	3.0
D) VEGETABLES	
a) Knolkhol	0.15
b) Okra	0.2
POULTRY	NO.s
Chicks	2000 no

➤ **OTHER EXTENSION ACTIVITIES**

- Veterinary Clinical Camp 1
- Agricultural Clinical Camp 1
- Kissan Gosthi 2
- SAC meeting 2
- Field days on
- (Maize, Wheat, Oilseeds, Mash, Paddy) One on each crop
- Exposure Visits 2
- Ex trainees Sameelan 2
- Campaigns
 - Seed Treatment 1
 - Termite Control 1
 - Parthenium Control 1
- Day Celebration
 - Environment day 1
 - Food day 1
 - KVK Day 1
 - Women day 1
- Awareness camps Need based