

DISCIPLINE: AGROFORESTRY  
FARMER TRAINING PROGRAMME

S. No.	Topic	Content	Duration	Month	Venue
1	Nursery raising of prominent fodder trees and grasses (Mulberry, Napier and Staria)	<ul style="list-style-type: none"> <li>• Types of nursery</li> <li>• Cost effective nurseries</li> <li>• Propagation and plantation schedule for MPT's and grasses.</li> </ul>	1 day	April	Off-Campus
2	Multipurpose trees and fodder grasses: scope and importance (Mulberry, Poplar, Napier and Setaria)	<ul style="list-style-type: none"> <li>• Role Concept of MPT's</li> <li>• Importance of MPT's</li> <li>• MPT's for Jammu</li> <li>• Time and techniques of planting</li> </ul>	1 day	May	Off-Campus
3	Cultivation of medicinal trees (Harad and Aonla) for higher income	<ul style="list-style-type: none"> <li>• Economic importance Iof Medicinal trees</li> <li>• Propagation techniques of Harad and Aonla</li> <li>• Grading and market</li> </ul>	1 day	July Aug January 2019	Off-Campus
4	Cultivation of medicinal and aromatic plants for higher income (Lemon grass Aloe vera, Khus grass)	<ul style="list-style-type: none"> <li>• Important MAP's for the district</li> <li>• Economic importance an market of MAP's</li> <li>• Cultivation practices of important MAP's</li> </ul>	1 day	June	Off-Campus
5	Agroforestry for sustainable production	<ul style="list-style-type: none"> <li>• Selection of site specific tree crop combination</li> <li>• Management of tree on bunds and bounaries for higher and sustainable production.</li> </ul>	1 day	Sept	Off-Campus
6	Scientific cultivation of fodder crops (Oats, barseem)	<ul style="list-style-type: none"> <li>• Important fodder crops</li> <li>• Production technology for round the year fodder production</li> </ul>	1 day	Oct	Off-Campus
7	Management of locally available Agroforestry trees and perennial grasses for sustaining fodder and food security in Kandi areas	<ul style="list-style-type: none"> <li>• Traditional practices</li> <li>• Agro forestry</li> <li>• Important Agroforestry systems</li> <li>• Perennial fodder grasses</li> </ul>	1 day	Dec	Off-Campus

		<ul style="list-style-type: none"> <li>• Economic returns</li> </ul>			
8	Production technology of economically important MPT's (Poplar, Melia, Mulberry )	<ul style="list-style-type: none"> <li>• Criteria for selection of tree species</li> <li>• Productive role of MPT's</li> <li>• Layout for block and boundary plantations.</li> </ul>	1 day	March, 2020	Off-Campus

#### TRAINING PROGRAMME FOR EXTENSION OFFICERS

S. No.	Topic	Content	Duration	Month	Venue
1	Agroforestry in adaptation and mitigating climate change	<ul style="list-style-type: none"> <li>• Agroforestry concept</li> <li>• Climate change</li> <li>• Adaptation and mitigation</li> <li>• Agroforestry intervention</li> </ul>	1 Day	June	On-Campus
2	Potential of Medicinal and aromatic plant for higher income	<ul style="list-style-type: none"> <li>• Potential &amp; Importance of MAP's</li> <li>• Choice &amp; Selection of species</li> <li>• Tree crop interaction</li> </ul>	1 Day	Feb	On-Campus

#### VOCATIONAL TRAINING FOR RURAL YOUTH

S. No.	Topic	Content	Duration	Month	Venue
1.	Quality planting material production and Nursery raising an enterprise	<ul style="list-style-type: none"> <li>• Importance of QPLM prodn.</li> <li>• Cost effective nurseries</li> <li>• Lay out plan</li> <li>• Marketing</li> <li>• Intercultural activities</li> </ul>	2 Day's	June	On-Campus

## ON FARM TRIALS/TECHNOLOGY ASSESSMENT

Trial 1: Assessment of superior clones of Harad (*Terminalia chebula*) under sub-tropical rainfed condition for different growth characteristics.

Problem identified: Lack of quality planting material, poor fruit size

T1: Local selection (Farmer Practice)

T2: JaachHarad

T3: Raj Harad (SKUAST-J)

Source of technology: Dr. YSPUH & F, Solan and SKUAST-J

Trial 2: Evaluation of different accession of Shataver (*Asparagus recemosus*) for growth and yield parameters

Problem identified: Lack of quality planting material, poor fruit size

T1: IC471923

T2: IC471922

T3: IC471899

Source of technology: SKUAST-J, NBPGR New Delhi

Trial 3: Assessment of superior clones of Aonla (*Emblica officinalis*) under sub-tropical rainfed condition for different growth characteristics.

Problem identified: Lack of quality planting material, poor fruit size

T1: Local selection (Farmer Practice)

T2: KANCHAN

T3: NA-7

Source of technology: Dr. YSPUH & F, Solan and SKUAST-J

Trial 4: *Cuscuta* management in Berseem

Problem identified: Heavy Infestation

Treatments to be decided with ACIRP WEED Management

## FRONTLINE DEMONSTRATIONS

1	Fodder	Berseem Oats	Lack of improved variety Low yield	New Varieties	Mascavi Sabzar, PLP-1	SKUAST-J SKUAST-K
2	Medicinal trees	Aonla Harad	Lack of improved variety		NA-7 RH-1 Jachh Harad	SKUAST-J Dr Y S P UH&F Solan
3	Cereals	Maize Bazra	Improved variety/ Hybrid		Hybrid K-19	

DISCIPLINE: HORTICULTURE  
FARMERS TRAINING PROGRAMMES

S. No.	Topic	Content	Duration	Month	Venue
1.	Management of fruit drop in fruit crops.	<ul style="list-style-type: none"> <li>• Reasons for low yield</li> <li>• Control measure for fruit drop and splitting</li> </ul>	1 day	May	Off Campus
2.	Scientific cultivation of marigold.	<ul style="list-style-type: none"> <li>• Method of production</li> <li>• Important varieties</li> <li>• Control measure for insects pests and diseases</li> </ul>	1 day	Sept	Off Campus
3.	Importance of INM in horticulture.	<ul style="list-style-type: none"> <li>• Importance of organic inputs in horticulture.</li> <li>• Sources of organic manures</li> <li>• Techniques of organic horticulture production</li> </ul>	1 day	August	Off Campus
4.	Nursery raising techniques of Rabi and Kharif vegetables	<ul style="list-style-type: none"> <li>• Seed bed preparation</li> <li>• Seed treatment</li> </ul>	1 day	April Sept	Off Campus

IN-SERVICE TRAINING PROGRAMMES

S. No.	Topic	Content	Duration	Month	Venue
1.	Recent advances in Nutrition of fruit crops	<ul style="list-style-type: none"> <li>• Potential fruit crops for Jammu.</li> <li>• Nutrition management of important fruits</li> <li>• Use of biofertilisers in horticulture</li> </ul>	1 day	Nov	On Campus
2.	Common insect pests of fruit crops.	<ul style="list-style-type: none"> <li>• Common insect pests</li> <li>• Management of the sepests</li> </ul>	1 day	April	On campus

VOCATIONAL TRAINING FOR RURAL YOUTH

S. No.	Topic	Content	Duration	Month	Venue
1.	Nursery raising as an enterprise.	<ul style="list-style-type: none"> <li>• Potential fruit crops for Jammu.</li> <li>• Methods of propagation of main crops.</li> <li>• Project formulation for establishment of fruit nursery.</li> </ul>	4 day	June- July	On Campus

DISCIPLINE: CROP PRODUCTION  
FARMERS TRAINING PROGRAMMES

S. No.	Topic	Content	Duration	Month	Venue
1.	Integrated Crop management in Rice	<ul style="list-style-type: none"> <li>• Raising of nursery and aftercare</li> <li>• Nutrient &amp; Weed Management</li> <li>• Water Management</li> <li>• IPM in Paddy</li> </ul>	1 day	May	Off-Campus
2.	Maize production technology	<ul style="list-style-type: none"> <li>• Nutrient Management</li> <li>• Weed Management</li> <li>• IPM in Maize</li> </ul>	1 day	June	Off-Campus
3.	Production Technology for pulses and oil seeds	<ul style="list-style-type: none"> <li>• Nutritional importance</li> <li>• Weed Management</li> <li>• INM and IPM</li> </ul>	1 day	Oct	Off-Campus
4.	Wheat Production Technology	<ul style="list-style-type: none"> <li>• Resource Conservation Technology(RCTs) in Wheat</li> <li>• Weed Management</li> <li>• Irrigation Scheduling</li> <li>• INM and IPM</li> </ul>	1 day	Nov	Off-Campus

DISCIPLINE: HOME SCIENCE  
FARMERS TRAINING PROGRAMMES

S. No.	Topic	Content	Durati on	Month	Venue
1.	Kitchen Gardening for ensuring nutritional adequacy of families.	<ul style="list-style-type: none"> <li>• Concept of Nutritional Gardening with respect to farm families</li> <li>• Round the year nutritional availability from kitchen gardening</li> <li>• Planning kitchen garden in view of nutritional adequacy</li> </ul>	1 Day	April	Off Campus
2.	Empowering farm women through agro based entrepreneur activities	<ul style="list-style-type: none"> <li>• Role/concept of financial independence</li> <li>• Various Agri- based entrepreneurial activities</li> <li>• Value Addition, processing, Mushroom production, Dairy, Poultry etc.</li> </ul>	1 Day	May	Off Campus
3.	Prevention of Malnutrition in women and adolescent girls through dietary modification	<ul style="list-style-type: none"> <li>• Interrelationship between diet and health</li> <li>• Incidence of malnutrition in women and adolescence girls</li> <li>• modification of dietary plans for of iron availability in diet</li> </ul>	1 Day	June	Off Campus
4.	Value added products from mango	<ul style="list-style-type: none"> <li>• Concept of value addition to fruits</li> <li>• Nutritive contents of mango fruit</li> <li>• Demonstration of value added products</li> </ul>	1 Day	June/ July	Off Campus
5.	Value addition of Jamun	<ul style="list-style-type: none"> <li>• Nutritive content of Jamun</li> <li>• Therapeutic value</li> <li>• Demonstration of value added products</li> </ul>	1 Day	June/ July	Off Campus
6.	Enhancing the nutritive value of cereals and pulses	<ul style="list-style-type: none"> <li>• Nutritional need of vulnerable population</li> <li>• Supplementing diet with low cost nutritional supplements</li> <li>• Demonstration of techniques for obtaining optimum nutrition (Fermentation, puffing, sprouting etc.)</li> </ul>	1 Day	August	Off Campus
7.	Drudgery reducing technologies for household and agricultural operations.	<ul style="list-style-type: none"> <li>• Role of women in household and agricultural operations</li> <li>• Drudgery of women Viz-a-viz time and energy</li> <li>• Demonstration on various drudgery reduction equipments</li> </ul>	1 Day	Sept.	Off Campus

8.	Processing of seasonal fruits and vegetables.	<ul style="list-style-type: none"> <li>Nutritive value of seasonal fruits and vegetables</li> <li>Concept of processing and income generation</li> <li>Demonstrations</li> </ul>	1 Day	Nov.	Off Campus
9.	Processing of white button mushrooms	<ul style="list-style-type: none"> <li>Nutritional value of WBM</li> <li>Post harvest care and management.</li> <li>Value added products</li> <li>Culinary preparations</li> </ul>	1 Day	Nov.	On Campus

## INSERVICE TRAININGS

S. No.	Topic	Content	Duration	Month	Venue
1.	Processing of cereals and pulses (for Anganwari workers and supervisors)	<ul style="list-style-type: none"> <li>Concept of value addition in view of improving nutritional value and acceptability to the vulnerable groups</li> <li>Demonstration of value added products from cereals and pulses (weaning foods)</li> </ul>	1 Day	May	On Campus
2.	Mitigating malnutrition among pregnant, lactating women & adolescent girls through integrated nutritive diets.	<ul style="list-style-type: none"> <li>Dietary requirements of pregnant and lactating women</li> <li>Dietary requirements of adolescent girls.</li> <li>Diet plans for the above</li> <li>[for Anganwari workers /Supervisors]</li> </ul>	1 Day	Sept.	On Campus

## VOCATIONAL TRAINING FOR RURAL YOUTH

S. No.	Topic	Content	Duration	Month	Venue
1.	Processing of seasonal fruits and vegetables for augmenting family income.	<ul style="list-style-type: none"> <li>Nutritive value of seasonal fruits and vegetables.</li> <li>Concept of processing and income generation.</li> <li>Skill training in processing and value addition of mango, jamun, Guava, Lemon, tomato etc.</li> </ul>	3 Days	June-July	On-Campus
2.	Entrepreneurship development through skill training in basket making/ cushion making/ tie & dye.	<ul style="list-style-type: none"> <li>Concept of Entrepreneurship</li> <li>Locally available agri material for handicraft</li> </ul>	5 days	May	On campus

		making.			
3.	Mushroom cultivation	<ul style="list-style-type: none"><li>• Importance of Mushroom as a nutritive and cash crop</li><li>• Various methods of compost preparation.</li><li>• Spawning, casing, care &amp; mantainance.</li></ul>	5 days	Oct-Nov	On campus



## DISCIPLINE: EXTENSION EDUCATION

## Farmers Training Programmes

Thematic Area	Topic	Content	Duration	Month	Venue
Mobilization of social capital	Group approach to address marketing problems	Why group approach? How to handle marketing problems through collective actions	1 day	May 2019	Off campus
WTO and IPR issues	Awareness programme on crop insurance against natural calamities	How to avail crop insurance	1 day	July	Off campus
Leadership Development	Leadership development among rural youths	Concept of leadership How to become group	1 day	Sept.	Off campus
Entrepreneurial development of farmers/rural youth	Entrepreneurial opportunities in vegetable growing.	Introduction. Scope of veg. venture. Marketing of vegetables.	1 day	Nov.	Off campus
Mobilization of social capital	Formation and management of SHGs.	Introduction Features of SHG. Objectives of SHGs. Responsibilities of members.	1 day	Jan, 2020	Off campus
WTO and IPR issues	Sensitizing farmers to avail crop insurance against natural calamities	How to avail crop insurance	1 day	March, 2020	Off campus

## In-service Training Programmes

1	Marketing Intelligence System	Introduction of Marketing Intelligence System	October, 2019
2.	Credit Management and Crop Insurance	Concept of agricultural credit management and crop insurance for natural calamities	January 2020

## DISCIPLINE: Fisheries

## FARMER'S TRAINING PROGRAMME

Thematic Area.	Topic	Content	Duration	Month	Venue
Fresh water Fish culture	Various Govt. schemes to promote Aquaculture	<ul style="list-style-type: none"> <li>❖ Importance of aquaculture</li> <li>❖ Different Central Govt. schemes to promote aquaculture through NFDB etc.</li> <li>❖ Different State Govt. schemes to promote aquaculture</li> <li>❖ Different Central and State Govt. schemes for existing fish farmers</li> </ul>	1 day	April/ May	Off campus
Fresh water Fish culture	Composite fish Culture	<ul style="list-style-type: none"> <li>❖ Different fishes suitable for fish culture</li> <li>❖ Fishes compatible with each other</li> <li>❖ Different fish ratio for composite fish culture</li> </ul>	1 day	April/ May	Off campus
Fresh water Fish culture	Carp breeding	<ul style="list-style-type: none"> <li>❖ Identification of male and female brooders</li> <li>❖ Natural breeding</li> <li>❖ Induced breeding</li> <li>❖ Hypophysation</li> </ul>	1 day	June/July	Off campus
Fish Pond management	Carp fry and fingerling rearing	<ul style="list-style-type: none"> <li>❖ Difference between fry and fingerlings</li> <li>❖ Best management practices to increase the survival rate</li> </ul>	1 day	July	Off campus
Fish Feed Management	Fish feed management of fry and fingerlings	<ul style="list-style-type: none"> <li>❖ Difference between the feed management of fry and grown up</li> <li>❖ Types of feed for fry and fingerlings</li> <li>❖ Size and application of fish feed</li> </ul>	1 day	Aug.	Off campus
Fish pond management	Integrated Fish farming	<ul style="list-style-type: none"> <li>❖ What is IFS &amp; IFF?</li> <li>❖ Principles of IFF</li> <li>❖ Profit of IFF</li> </ul>	1 day	Sept./Oct.	Off campus

Fish Feed Management	Fish feed management	<ul style="list-style-type: none"> <li>❖ Making of feed at farm</li> <li>❖ Pelleted fish feed</li> <li>❖ Feed application in Winter</li> </ul>	1 day	Dec.	Off Campus
Different Trainings will be conducted to other KVKs of SKUAST-J.					

## In-service Training Programme

Fisheries					
Thematic Area.	Topic	Content	Duration	Month	Venue
Fish water fish culture	Use of immunostimulants and probiotics in Aquaculture for disease management	<ul style="list-style-type: none"> <li>□ Ingredients used for fish feed</li> <li>□ Method to obtain requirement of different feed ingredients</li> <li>□ Different types of immunostimulants and probiotics</li> <li>□ Method of application of immunostimulants and probiotics</li> </ul>	1 days	Dec	On campus

## Vocational Training Programme

Thematic Area.	Topic	Content	Duration	Month	Venue
Value addition	Value addition of fresh & frozen fishes	<ul style="list-style-type: none"> <li>• Why value addition?</li> <li>• Methods of fish deboning</li> <li>• Different products from fish</li> <li>• Hand in practice</li> </ul>	2 days	Jan.	On campus
Aquarium	Aquarium making as an entrepreneurial activity	<ul style="list-style-type: none"> <li>• Method to make aquarium</li> <li>• Different sizes and dimensions</li> <li>• Maintenance of Aquarium</li> </ul>	2 days	Dec.	On campus/ Off campus

**OFTs**

1- Impact of feed supplement on Fish production

Problem Identified: Imbalanced nutrition in fish

T<sub>1</sub>: Mustard oil cake, Rice bran, home left etc. without any ratio (Farmer practice)

T<sub>2</sub>: 50:50 Mustard oil cake and rice bran after soaking overnight (Recommended Practice)

T<sub>3</sub>: Feed Supplement (Agrimin forte)

2- Assessment of floating feed on growth and production of fish

Problem Identified: Imbalanced nutrition in fish culture

T<sub>1</sub>: Mustard oil cake, Rice bran, home left etc. without any ratio (Farmer practice)

T<sub>2</sub>: 50:50 Mustard oil cake and rice bran after soaking overnight (Recommended Practice)

T<sub>3</sub>: Commercial floating feed @ 3-5% of fish body weight

**OTHER ACTIVITIES**

\* Modifications in proposed plan or some other programmes may be included on the basis of need and demand of the fish farmers

## DISCIPLINE: ANIMAL HUSBANDRY

## Farmers Training Programme

S. No.	Topic
1.	De-worming and vaccination in Farm animals
2.	Improvement of nutritive value of low quality roughages
3.	Management of parasitic diseases in animals

## FRONTLINE DEMONSTRATIONS

S. NO.	CROP	AREA PROPOSED (ha)
<b>OIL SEEDS</b>		
1.	Toria	2.0
2.	Gobi Sarson	3.0
3.	Mustard	3.0
<b>PULSES</b>		
1.	Gram	3.0
2.	Mash	3.0
<b>CEREALS</b>		
1	Rice	10.0
2	Maize	10.0
3	Wheat	10.0
<b>VEGETABLES</b>		
1	Summer vegetables	2.0
2	Winter vegetables	2.0
<b>ENTERPRISE</b>		
1	Floriculture	2.0
2	Medicinal trees	2.0
<b>FISHERIES</b>		
1	Pelleted Fish Feed	15 farmers @ 50kg/each
2	Mixed fish Fry/fingerlings	15 farmers @ 2000 nos./each

## EXTENSION ACTIVITIES

ACTIVITY	NOs.
Kissan Melas / Farmer Fairs	02
Field days	05
Seed Treatment Campaign	02
Veterinary Clinical camps	02
Diagnostic visits	Need based
Celebration of Important Days	02
KisanGhoshti	02
<i>Parthenium</i> management week	01
Farmers Scientist interaction	02
Ex-trainees Sammelan	01