

SCHEDULE

REFRESHER-CUM-SKILL UPGRADATION TRAINING

Target group: Technical staff up to T5, ICAR-Indian Institute of Oilseeds Research

Date	Skill Upgradation Areas		Resource Persons
11-3-2016	Introduction, Objective and Course outline	Fore Noon	Dr K.S. Varaprasad Dr P. Srinivas Dr V. Dinesh Kumar
	Basics of conducting Agriculture Research and Experimentation – Field and Lab		Dr SN Sudhakara Babu
	Experimentation methodology – Hypothesis testing and errors.		
	Principles of Field Experimentation (Randomization, Replication, and Local Control)		
	Experimental Designs: CRD, RBD, Factorial, Split-plot		
	Types of field experiments: Crop specific (castor, sunflower, safflower, sesame, niger, groundnut, rapeseed-mustard, soybean, sorghum, cotton, chickpea, etc.)		
11-3-2016	Breeding (Germplasm, selfing, sibbing, crossing, specific traits, markers; Maintenance, Labeling; variety, hybrids, inbreds, parents etc.);	After Noon	Dr Anjani
	Agronomy (Nutrient management, biofertilizers, irrigation management, weed management, cropping systems, plant populations, dates of sowing, conservation agriculture, etc.),		Dr G. Suresh
	Entomology (sucking pests, defoliators, pollinators, predators, etc.)		Dr H. Basappa
	Pathology (fungal diseases, bacterial diseases, viral diseases, nematodes, plant pathogenic insect diseases, sick plot maintenance, checks and observations, etc.)		Dr S.Chander Rao
	Physiology (dates of sowing, root studies, irrigation and moisture stress, heat, light/shading, nutrient deficiency symptoms, source-sink relationships, etc.)		Dr Laxmi Prayaga
15-3-2016	Site selection and pre-sowing care and management Primary land preparation: Summer ploughing, green manuring/FYM incorporation, etc., Final land/seed bed preparation: ridges and furrows, raised bed and furrow, flat bed, trenches, Field layout: Size and shape of plot, plot size (net and gross), plot bunds, irrigation channels, border effects, direction of sowing, Sowing: methods of sowing, seed treatment, Calculation of plant population, fertilizers, pesticides and herbicides, yield conversion to ha; Pot culture trials; etc.,	Fore Noon	Dr SN Sudhakara Babu

15-3-2016	Seed production: Parental lines, nucleus, foundation, certified and truthful label – identification of rouges, certification standards, labels, pollination mechanisms, Isolation distance, etc.)	After Noon	Dr Manjunatha	
	GM crops and organisms, Biosafety norms and standards, SOPs for Confined Field Trials		Dr Dinesh Kumar	
	Tissue culture and care in handling materials in Biotechnology		Dr M. Sujatha	
	Biochemical analysis – lab requirements and nature of works		Dr Praduman	
17-3-2016	Recording observations/data: Crop specific and aspect specific	Fore Noon	Dr SN Sudhakara Babu	
	Sample collection and preparation: Soil and plants, Soil testing and health cards; Crop calendar of operations, weather data			
	Data Books/sheets, data entry, numbering, indexing			Dr P. Srinivas
	Data processing – Preliminary (Tabulation, means, etc.) and advanced (Tabulation, analysis, trends, comparative assessment, etc.), Software for preliminary data processing			Dr Sarada
17-3-2016	Farm management	After Noon	Mr N. Prabhakara Rao	
	Labour management		Mr M. Bhaskar Reddy	
	Farm produce and inputs - recording and management, Crop residue handling and composting		Mr Balakishan	
19-3-2016	Micro irrigations systems- Lay out, operation and maintenance	Fore Noon	Dr G. Suresh	
19-3-2016	Farm power and Machinery Maintenance and Operation of Tractors, Tractor drawn implements Post-harvest processing, Threshers Weed identification and herbicide use	After Noon 3.00 to 4.00	Mr N. Prabhakara Rao Visit to AICRP Farm Implements AICRP on Weed control - Dr Suresh	
22-3-2016	Extension techniques and data collection, conducting surveys Techniques for use of IT for extension and data collection Econometric analysis: Costing techniques – Cost A, B and C	Fore Noon	Dr M. Padmaiah Dr GD Satish Kumar Dr S.V. Ramana Rao	
22-3-2016	Basic agriculture techniques (terminology, basic botany, Knowledge on pests, pesticides, application methods, deficiency symptoms, DUS characters, Trait identification, Disease scoring.) Plant Protection Equipment and operation	After Noon 3.15 to 5PM	Dr Shantalakshmi Dr Lakshamma Visit to NIPHM	
23-3-2016	Basic laboratory safety techniques (precautions, handling , basic knowledge on chemicals, safe disposal of bio-waste, handling of hazardous chemicals) Pesticide formulations and observations -EC, WP, SC, Label claims of pesticides, sprayers, spray volume, calculations, bio-pesticides, etc.	Fore Noon	Dr Kumaraswamy Dr P. Srinivas	
23-3-2016	Library and data collection and information management Data entry and basics of MS office excel	After Noon	Mr Raghunath	
25-3-2016	Visit to CRIDA Institute and Farm/ ICRISAT	Full Day	Dr G. Suresh	

26-3-2016	Technical Service Rules MIS and FMS Purchases and Bills	After Noon	Ms. Swarna Kumari Mr Ganesha/ Mr Premakumar
28-3-2016	IIOR web site, Email communication , reply, Biometric attendance (BAD), etc	Fore Noon	Mrs Madhuri
	Photo and videography techniques and processing, light and background requirement, angle of shoot, projection, posters and pamphlets preparation and printing, etc.	After Noon	IIOR
29-3-2016	Personality development, Team work and work ethics for career growth and institutional performance Valedictory	Fore Noon After Noon	NAARM IIOR