6.4.5 Conduct of practical and hands-on-training at Dept. of Agril. Entomology

a. UG degree programme

Sr.	Course	Course Title	Skills learned through conduct of		
No. No. practical and hands-on-training Department of Agronomy					
1	Agro 111	Principles of Agronomy	 To identify crop seeds & crop plants at different stages and weeds To identify primary & secondary tillage implements a and fertilizers Preparation of FYM, compost, green mnuring and vermicompost 		
2	AGRO 112	Agricultural Meteorology	To acquaint with different Meteorological Instruments and how to take the observations.		
3	AGRO 113	Introductory Agriculture	To calculate the balance sheet of agriculture business		
4	AGRO 124	Water management including micro irrigation	 To determinate the moisture content in soil and know the stage of scheduling irrigarion. To calculate the water requirement of different crops To handle the drip and sprinkler irrigation systems 		
5	AGRO 235	Crop production I (Kharif crops)	 Preparation of seed beds and irrigation layouts for kharif crops To know the method of transplanting the rice crop Efficient method of fertilize application 		
6	AGRO 236	Practical crop production I (kharif crops)	Practically cultivation practices of soybean crop		
7	AGRO 247	Crop production II (Rabi crops)	 Preparation of seed beds and irrigation layouts for kharif crops To know the method of transplanting the rice crop Efficient method of fertilize application 		
8	AGRO 248	Practical crop production II (Rabi crops)	Practically cultivation practices of wheat crop		
9	AGRO 359	Weed management	 To identification of weeds and their control Handling of herbicides. Spraying of herbicides and handling of different spraying equipments 		
10	AGRO 3610	Farming systems and sustainable	Preperation of cropping schemes for dryland and irrigation situation		

System models for wet land and dryland	System models for wet land and dryland 1. Growing of vegetable crops organically, 2. Control of pest and diseases organically 2. Control of pest and diseases organically 3611			agriculture	2. Preparation of integrated farming
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	and Prices 2. To acquaint with functions of marketing	4	ECON 354		
	and Prices 2. To acquaint with functions of marketing			Marketing, Trade	marketing
and trices 2. To acquaint with functions of	ŭ				2. To acquaint with functions of
marketing					marketing
5 ECON 365 Agri business 1. To acquaint with system of Agri	5 ECON 365 Agri business 1. To acquaint with system of Agri	5	ECON 365	Agri business	1. To acquaint with system of Agri

		Managamant	business
		Management	
			2. To acquaint with Agrobased
			industries and guidelines for project
	DANE	A ' 1, 1	preparation reports.
6	RAWE	Agricultural	2. To implement knowledge regarding
	ECON 476	Economics	identification and management of
			pests at host farmers field
7	AEL ENT	Commercial	2. To acquaint with cost of cultivation
	486	Sericulture	of mulberry
			3. To acquaint with project report for
			sericulture unit
8	AEL	Commercial	1. To acquaint with cost of cultivation
	HORT	Vegetable	of vegetables
	486	Production	2. To acquaint with project report for
			commercial vegetable unit
9	AEL	Commercial	1. To acquaint with cost of cultivation
	PATH 486	Mushroom	of mushroom
		Production	2. To acquaint with project report for
			mushroom unit
10	AEL	Commercial Broiler	1. To acquaint with cost of cultivation
	AHDS 486	Production	of broiler
			2. To acquaint with project report for
			broiler unit
Dep	artment of Ag	ril. Engg	
1	ENGG-	Fundamentals of	1. To measure area & locate field
	121	Soil & Water	boundaries
		Conservation	2. To prepare map
		Engineering	3. To find reduced levels of points
		Lingmeering	4. To calculate runoff quantities
			5. To study runoff storage structures
			& erosion control measures
			6. Design of farm pond
2	ENGG-	Introduction to	Introduction to Computer
	232	computer	2. Operations skills in MS word, excel
	232	_	& power point
		Application	3. Skills in use of Internet
3	ENGG-	Farm Power &	
3			1. To identify parts of IC engine,
	353	Machinery	tractor, systems, equipments
			2. Engine Power calculations
			3. To identify troubles & trouble
			shooting in tractor & equipments
			4. To calculate draft, soil resistance,
			power requirement for farm
			operation, area covered
4	ENGG-	Protected	1. To identify tools & equipments
	364	Cultivation & Post	used in greenhouse, seed processing
		Harvest	2. Irrigations systems for Green house
		Technology	3. Design of Bag storage structure
5	RAWE	Agril. Engineering	4. To implement knowledge regarding
	ENT 475		soil & water conservation, modern
			tools, equipments & machinery for
			farm operations on host farmers
	<u> </u>		field
Dep	artment of Agr	ril. Entomology	
1	ENT 231	Insect Morphology	1. To identify insects

		and Systematic	2. To preserve insects3. To dissect different systems of
			insect
			4. To identify different orders of
			insect on the basis of characters
2	ENT 242	Insect Ecology,	1. To acquaint with different methods
		Integrated Pest	of insect-pest management
		Management	2. To acquaint with Apiculture,
		Including	Sericulture and Lacculture
	ENTE 0.50	Beneficial Insects	1 77 11 110 1
3	ENT 353	Crop Pests and	1. To identify damage caused by pests
		Stored Grain Pests and Their	infesting field crops, horticultural
			crops and stored grains
		Management	2. To manage pests infesting field crops, horticultural crops and stored
			grains
4	ENT 364	Introductory	1. To acquaint with different PPNs,
5	DAWE	Nematology Crap Protection	their damage and management
3	RAWE ENT 475	Crop Protection	2. To implement knowledge regarding identification and management of
	EN1 4/3		pests at host farmers field
6	AEL ENT	Commercial	1. To acquaint with mulberry
U	486	Sericulture	cultivation techniques
	100	Scriculture	2. To rear mulberry silkworms for
			cocoon production
Depa	artment of AH	DS	
1	ASDS-111	Livestock	4. To know different livestock breeds
		Production &	5. To acquaint the management practises
		Management	of live stock
		_	6. To know the feeding practices of
			animal
			7. To know the economics of livestock
			farming 8. To maintain the animal at different
			climatic condition
2	ASDS-242	Livestock Breeds &	To acquaint with different breeding
_	11505 212	Nutrition Nutrition	policies
		ratition	2. To improve the livestock through
			breeding strategies
			3. To know balance ration for different
			animal
			4. To know the feeding strategies for
			increasing livestock productivity
3	ASDS-353	Technology of Milk	1. To know the nutritional importance of
		& Milk Products	different milk products
			2. To learn the techniques for preparation
			of different milk products
			3. To identify different adulterants in milk
			and milk products 4. To know the different milk processing
			4. To know the different milk processing techniques
			5. To developed entrepreneurship through
			dairying
4	ASDS-	Sheep & Goat	1. To know different breeds of sheep and
]		3-11-P 00 00m	goat
	i	i	

	364	Production	2. To acquaint the management practises
		Troduction	of sheep and goat
			3. To know the feeding practices of sheep
			and goat
			4. To know the economics of sheep and
			goat farming
			5. To developed entrepreneurship through
	ASDS-475	Animal Science and	sheep and goat farming
5	(New)	Dairy Science	1. To observe, compare and implement knowledge regarding livestock rearing
	RAWE	Daily Science	and techniques of milk and milk
	MIVL		product production at host farmers field
6	AEL-	Commercial Broiler	1. To developed entrepreneurship through
	ASDS-486	Production	Commercial Broiler Production
Den	 artment of Ext	ension Education	
1	EXTN 122	Dimensions of	To conduct village survey
1	22111122	Agricultural	2. To get information about Krishi
		Extension	vidnyan mandal
			3. To know the functioning village
			gram panchayat
			4. To know the conduct of PRA in
			village
2	EXTN 353	Extension	1. To identify the problems related to
		methodologies for	project proposals
		transfer of agril.	2. To know the conduct of Method
		technology	Demonstration To the organization of Group
			3. To the organization of Group discussion
			4. To prepare Radio & Television
			script.
			5. To prepare Leaflet, pamphlet,
			Folder
			6. To Handle PAE, Camera, LCD etc
3	EXTN 364	Entrepreneurship	1. To conduct market survey
		development &	2. To prepare Advertise & News
		communication	3. To prepare project proposal
		skills.	4. To prepare PPT5. To know about body posture, body
			language& eye contact
			6. To conduct mock interview.
4	RAWE	Extension	To Conduct PRA
	EXTN 475	Education	2. To identify Gap in production
			3. To conduct Techno –Social survey
			of village & host farmer.
5	AEL	Commercial	1. To conduct Techno –Social &
	EXTN 486	Sericulture	economic survey of sericulture
			farmer.
6	VEL	Commercial Desiler	2. To visit sericulture unit.
6	AEL EXTN 486	Commercial Broiler Production	1. To conduct Techno economic survey of poultry owners.
	EATN 400	1 TOUUCHOII	2. To visit commercial poultry units.
7	AEL	Vegetable	To visit commercial pountry units. To conduct survey of vegetable
	EXTN 486	Production	growers
			2. To visit shed net vegetable units
	1	ı	J

8	AEL EXTN 486	Mushroom production technology	 To conduct survey of Mushroom Producers To visit Mushroom production units 				
Dena	Department of Horticulture						
1	HORT- 111	Production Technology of Fruit crops	 To identify and use different tools and equipments used in cultivation of Horticultural crops To develop skill in different plant propagation techniques like cutting, layering, budding and grafting. To develop the skill of different operations in fruit crop cultivation like advance system of planting, irrigation, training, fertilizer application and use of PGR. 				
2	HORT- 232	Production Technology of Vegetable and Flower crops	 Identification of different vegetables & ornamental plants. To develop skill of raising of seedlings of vegetable and seasonal flowers and transplanting. To develop garden features and planting layout of different ornamental and kitchen gardens. To develop skill in different intercultural operations in vegetable and flower crops like training, pruning, staking and earthing up, etc. To demonstrate the skill of judging maturity, harvesting methods and post harvest operations like cleaning, grading, trimming, packing, etc. In flower and vegetable crops. 				
3	HORT- 243	Production Technology of Spices, Aromatic, medicinal and plantation crops.	 To identify different spices, Aromatic, medicinal and plantation crops. To develop knowledge regarding processing and curing of spices, value addition of medicinal plants. 				
4	HORT- 364	Post Harvest Technology of Fruits and Vegetable crops.	 To develop skill to judge the maturity of different fruits and vegetable crops. To develop skill in value addition by adopting different preservation techniques in fruits and vegetable crops like preparation of jam. Jelly, marmalade, cordials, ketchups, pickles, candy, etc. 				
5	RAWE HORT475 (N)		To develop skill through demonstration in different horticultural practices followed in cultivation of fruits, vegetables and flower crops.				

			O T 1- (C 10' (' 1			
			2. To workout cost of cultivation and			
			the B:C ratio through practicals in			
			different horticultural crops grown on farmer's field.			
	AEL	Commercial	To get practical experience on			
	HORT -	Vegetable	cultivation of commercial crops.			
	486	Production.	2. To develop the skill of entrepreneur			
	700	i ioduction.	in the field of vegetable production.			
			in the field of vegetable production.			
Den	artment of Pla	nt Pathology				
1	PATH-111	Introductory Plant	1. To acquaint with different			
		Pathology	Laboratory instruments used in			
			Plant Pathology			
			2. To identify symptoms produced by			
			fungi, bacteria, Viruses and			
			flowering parasite in different crops			
			3. To collect and preserve different			
			disease infected samples			
			4. To prepare media for growth of			
			fungi and isolation of fungi from			
	MIDO 101	A114	infected disease sample.			
2	MIBO-121	Agriculture	1. To acquaint with handling of			
		Microbiology	Microscope and its different parts			
			2. To prepare different media for growth of different bacteria.			
			3. To isolate bacteria from infected			
			disease samples,rhizosphere and			
			from root nodule.			
			4. To acquaint with different			
			sterilization method			
3	PATH-232	Principles of Plant	To acquaint with different group of			
		Pathology	fungicide and their use			
			2. To acquaint with different plant			
			protection equipments and their			
			maintenance			
			3. To acquaint with safe handling of			
			fungicides			
4	PATH-243	Diseases of Field	1. To identify different diseases of			
		Crops and Their	field crops.			
		Management	2. To manage diseases caused by			
_	DATEL OF 4	Diagram C	field crops .			
5	PATH-354	Diseases of	1. To identify different diseases of			
		Horticultural Crops and Their	horticultural crops and vegetables			
			2. To manage diseases caused by			
		Management	horticultural crops and vegetables			
6	RAWE	Plant Pathology	4. To impart knowledge regarding			
	PATH 475	I min I minology	identification and management of			
			diseases on host farmers field			
7	AEL	Mushroom	4. To acquaint with cultivation of			
	PATH 486	Production	mushroom			
		Technology	5. To acquaint with preparation of			
L	<u> </u>		spawn			
Dep	Department of SSAC					

2	SSAC-111 SSAC-122	Introduction to Soil Science Soil Chemistry, Soil	 To identify rocks and minerals Soil Sampling Soil Profile sampling Soil and water analysis Soil and fertilizes analysis
		Fertility and Nutrients Management	3. Fertilizer application as per STFR
3	SSAC-243	Manures , fertilizers and agrochemicals	 Identification manures ,fertilizers and agrochemical Identification of adulteration in fertilizers
4	SSAC-354	Biochemistry	1.
5	RAWE SSAC-475	Soil Science and Agricultural Chemistry	 Vermicomposting Composting Application of fertilizer Soil Sampling
6	SSAC- 111(New)	Fundamental of soil science	 To identify rocks and minerals Soil Sampling Soil Profile sampling Soil water analysis