MARIS STELLA COLLEGE (AUTONOMOUS), VIJAYAWADA

A College with Potential for Excellence

NAAC Accredited & ISO 9001: 2015 Certified



PROGRAMME REGISTER

2020-2024

UG DEPARTMENT OF AGRICULTURE AND RURAL DEVELOPMENT

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UG PROGRAMMES OFFERED

S. No.	Programme	Combination offered	Programme code
1	B.Sc.	Agriculture and Rural Development	312

PROGRAMME OUTCOMES (POs) 2020-2024

At the end of the Programme students will have:

PO1: Essential Knowledge:

Comprehensive discipline knowledge and understanding, the ability to engage with different schools of thought and to apply their knowledge in practice including in multidisciplinary or multi professional contexts.

PO2: Creative and critical thinking and problem solving abilities:

Be effective problem solvers, able to apply critical and evidence-based thinking to conceive innovative responses to future challenges.

PO3: Teamwork and communication skills:

Be able to convey ideas and information effectively to a range of audiences for a variety of purposes and contribute in a positive and collaborative manner to achieving common goals.

PO4: Motivation and preparation in life-long learning:

Exhibit life-long skills; broad based multiple career oriented general skills; self and field based learning skills; digital skills; social responsibility and compassionate commitment; preparedness for living, learning and working in any environment

PO5: Professionalism and leadership readiness:

Be able to engage in professional behaviour and have the potential to be entrepreneurial and take leadership roles in their chosen occupations and communities.

PO6: Intercultural and ethical competency:

Be responsible and effective global citizens whose personal values and practices are consistent with their roles as responsible members of society.

PO7: Self-awareness and emotional intelligence:

Be self-aware and reflective, flexible and resilient and act with integrity and takeresponsibility for their actions as empowered women.

PO8: Social responsibility:

Be sensitive to and demonstrate agency in matters of environment, gender and other social issues to promote an equitable society.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

2020-2024

At the end of the Programme students will be able to:

PSO1: Summarize the concepts, principles, classifications, theories and mechanisms.

- **PSO2:** Discuss hypothesis, procedures, results and draw conclusions.
- **PSO3:** Apply tools and techniques in solving problems, sample analysis and production.
- **PSO4:** Develop communicative competence, creative and critical thinking, practical, technical and employability skills, social sensibility and responsibility on Agricultural practices.

Course Outcomes (COs)

2020-2024

S.no	SEM	Course Code	Course Title	Course outcomes
1	I	AGRO101	Fundamentals of	CO1: Explain the history and development of
			Agronomy	agriculture in India.
				CO2: Explain crop production techniques and
				crop growth in relation to the environment.
				CO3 : Outline the principles and practices of
				weed management.
				CO4 : Discuss the classification, nomenclature,
				mode of action and selectivity of herbicides and
				compare the traditional and technology-supporte
				practices in agriculture.
2	I.	AGRO101P	Fundamentals of	CO1: Analyse the crop production techniques
			Agronomy-Practical	and crop growth in relation to the
				environment.
				CO2: Describe the Zero and minimum tillage:
				their basics and application.
				CO3: Explain Precision agriculture and
				Precision farming, their concepts and
				application.
3	1	BICM101	Plant Biochemistry	CO1: Explain scope and importance of
			and Soll Science	biochemistry in agriculture and structural
				classification of biomolecules
				CO2: Summarize the properties and
				CO3: Outline the metabolism of biomolecules.
				CO4: Classify rocks, minerals and soils and
				explain various aspects of soil and discuss
				importance of hitrogen, phosphorous and
				organic son remity.
4		BICM101P	Plant Biochemistrv	CO1: Describe the Biochemistry as a discipline
			and Soil Science-	and milestone discoveries in life sciences that
			Practical	led to establishment of biochemistry as
				separate discipline.
				CO2: Explain about Fundamental properties of
				elements, their role in formation of
				biomolecules and in chemical reactions within
				living organisms.
				CO3: Discuss about plant cell structure,
				organization, and apply specific bio chemical
				functions to compartments of the plant cell and

				protein structures.
5	I	AECO141	Fundamentals of Agricultural	CO1: Apply concepts and terms of economics to the agricultural sector.
			Economics	CO2 : Explain characteristics of wealth, welfare, needs and surplus and laws of marginal utility
				CO3: Outline different aspects of demand
				and supply, essentials of market, pricing and
				competition.
				CO4: Summarize the concepts of national
				income, classification and cannons of taxation,
				features of public and private finance, sources
				of public revenue and public expenditure,
				concepts of inflation, types, causes and control
				of inflation.
6	I	HORT181	Fundamentals of	CO1: Define, classify and outline the climate
			Horticulture	and soil conditions for horticultural crops.
				CO2: Explain principles and methods of plant propagation, training and pruning.
				CO3: Summarize principles and steps in
				establishment of various orchards and types an
				purposes of gardens and irrigation and fertilizer
				in horticulture crops.
				CO4: Discuss unfruitfulness, pollination and
				fertilization and List medicinal and aromatic
				plants, spices and condiments and explain the
				role of plant bio regulators.
7		HORT181P	Fundamentals of	CO1: Explain plant vegetative structure.
			Horticulture-	CO2: Describe the basic principles, processes
			Practical	and plant propagation methods.
				barvest a variety of plant
8			Rural Sociology	CO1: Explain the relevance of rural sociology in
0	1	ALATIST	Rural Sociology	agricultural extension characteristics of rural
				society, classification and stratification of social
			Psychology	groups.
				CO2: Outline cultural concepts and social
				values, classification and training of
				leaders.
				CO3: Summarize the meaning, scope
				and importance of educational
				psychology in
				agricultural extension.
				CO4: Explain meaning, definition and steps of
				extension teaching and risk benefit analysis
				and implicates the competence and
				professional ethics, collegiality and loyalty.
9.		AGRO 103	Agro meteorology	Co1: Explain the earth's atmosphere and

			and Climatic Change	weather variables
				CO2: Outline types of precipitation
				CO3: Summarize artificial rain
				making, monsoon mechanism and weather
				hazards.
				CO4: Relate weather conditions to agriculture
10	П	AGRO103P	Agro Meteorology	CO1: Classify Earth atmosphere, composition,
			and Climate	extent and structure; Atmospheric weather
			Change- Practical	variables; Atmospheric pressure, its variation
				with height.
				CO2: Explain Nature and properties of solar
				radiation, solar constant, depletion of solar
				radiation, short wave, long wave and thermal
				radiation, net radiation, albedo.
				CO3: Discuss about Atmospheric humidity,
				concept of saturation, Artificial rainmaking and
				types weather forecast and their uses.
11	II	GPBR111	Fundamentals of	CO1: Discuss details of cell cycle and
			Genetics	structures
				of cell organelles.
				CO2: Explain heredity and laws of heritance in
				genetics.
				and
				dominant traits
				CO4: Outline the concepts of karvotype. sex
				linkage and mutations and central dogma of
				genetic material and genetic code.
12		GPBR111P	Fundamentals of	CO1: Explain about Pre Mendelian concepts of
			Genetics- Practical	heredity.
				CO2: Summarize the Chromosome - Structure
				of chromosome, types of chromosomes.
40				CO3. Explain about Linkage and cell cycles.
13	11	EN10131	Fundamentals of	CO1: Classify insecta and account for their
			Entomology- I	abundance and dominance
				insects
				CO3: Discuss the life cycle and endocrin
				systems of insects
				CO4: Summarize the taxonomical features in
				various orders of insecta.
14	11	ENT0131P	Fundamentals of	CO1: Explain History of Entomology in India
			Entomology-I-	CO2: Summarize the Structure and
			Practical	modifications of insect antennae, mouth parts.
				legs, wing venation, modifications and wing
				coupling apparatus.
				CO3: Classify the Types of reproduction in
				insects and classify insect taxonomy.
15	II	AENG151	Soil and Water	CO1: Discuss types of soil erosion, and control

			Conservation	measures.
			Engineering.	CO2: Explain the concept of irrigation water
				measurements.
				CO3: Outline different water harvesting
10			Collored Weter	techniques.
16	11	AENG151P	Soll and water	CO1: Outline the soil and water conservation
			Conservation	and causes of soll erosion.
			Engineering-	wind erosion, types of soil movement
			Practical	CO3: Summarize Open channel hydraulies
				soil loss ostimation and components of micro
				irrigation
17	11	PATH171	Fundamentals of	CO1: Explain the scope and concepts of
			Plant Pathology-I	plant pathology
			i lant i athology-i	CO2: Compare morphological and anatomical
				characters of fungi
				CO3: Outline the rules of nomenclature and
				classification of fungi.
				CO4: Identify viruses and classify plant
				Parasites and explain different plant nematodes
				and characters.
18	II	PATH171P	Fundamentals of	CO1: Explain the Importance of plant diseases,
			Plant Pathology-I-	scope and objectives of Plant Pathology.
			Practical	CO2: Summarize Diseases and symptoms due
				to abiotic causes. Fungi: General characters,
				definition of fungus, somatic structures.
				CO3: Explain basic methods of classification
				and reproduction and nematodes: General
				morphology and reproduction.
19		AGRO201	Crop Production	CO1: Explain importance and special features
			Technology – I	of cereal crops in Andhra Pradesh.
				CO2: Outline the agronomical conditions for the
				cultivation of agricultural cereal crops.
				CO3: Summarize agronomic conditions to grow
				millet crops.
				CO4: Discuss the agronomic conditions
				and characteristics of various agricultural field
				lentils
20	111	AGRO201P	Crop Production	CO1: Explain about Introduction and
20		//0//02011	Technology – I -	development of agriculture.
			Practical	CO2: outline about Nutrient management
				with special emphasis on nitrogen dynamics.
				micro nutrients -INM
				CO3: Learn about Harvesting -Yield attributes -
				yield - post harvest operations
21		GPBR211	Fundamentals of	CO1: Explain historical development, concepts,
			Plant Breeding	nature and role of plant breeding and modes of
			Ŭ Ŭ	reproduction.
				CO2: Discuss plant introduction and centres of

				origin/diversity.
				CO3: List and explain the different plant
				breeding methods.
				CO4: Summarize the development of
				resistance
				and tolerance mechanisms.
22	111	GPBR211P	Fundamentals of	CO1: Explain about Historical
			Plant Breeding-	developments, concept, nature and role of plant
			Practical	
				CO2: Explain about Modes of reproduction and
				apomixes, Asexual reproduction (vegetative
				reproduction and apomixis) and
				sexual reproduction
				CO3: Outline about Modes of pollination,
				Classification of crop species and hybridization
22	TTT			techniques.
23	111	AERDZUI	Economics for Rural	development of rural economics
			Development	development of rural economics.
				management in India
				CO3: Explain the different aspects of rural
				demography.
				CO4: Outline the nature and structure of rural
				occupations and the concept of work
				participation rates and unemployment.
24	III	ENTO231	Fundamentals of	CO1: Explain biotic and abiotic factors affecting
			Entomology -II	insect ecology.
				CO2: Outline the methods of integrated pest
				nanagement, surveillance and forecasting and
				principles of host-plant resistance.
				CO3: Summarize pest management tools and
				different methods of pest control and
				formulations of insecticides and application
				techniques.
25	III	ENTO231P	Fundamentals of	CO1: Explain about Biotic and biotic factors
			Entomology- II -	affecting insect ecology
			Practical	CO2: Outline about pest surveilliance pest
				forecasting recent methods.
				CO3: Explain about Beneficial insect and
				their mass multiplication
26	III	AECO241	Agricultural Finance	CO1: Explain the concepts of agricultural
			and Co-Operation	finance, principles of credit and credit analysis
				CO2: Outline social control and nationalisation,
				read bank schemes and crop loan systems.
				Gost Outline the meaning and scope of
				Innancial inclusion and schemes and agencies
				ror financing.
				CO4: Summarize the role of various
				international bodiesand teatures of

				crop insurance and agricultural projects and functions and role of cooperatives in the agricultural sector.
27	III	AECO241P	Agricultural Finance	CO1 :Definitions of agricultural finance and
			and Co-Operation -	meaning and significance of micro
			Practical	and macro finance.
				CO2: Explain Credit analysis and World Bank
				(WB)- Objectives and functions.
				CO3: Learn social control and functions of
				RRBs
				in Andhra Pradesh.
28	III	AENG251	Farm Machinery and	CO1: Explain the working principles of
			Power	different farm engines.
				CO2: Outline the ignition and power
				transmission system of I.C engines.
				CO3: Summarize ploughing, sowing, plant
				protection, narvesting and threshing equipment
				CO1: Explain dusters and tractor mounted
				equipments.
29	III	AENG251P	Farm Machinery and	CO1: Explain Internal combustion engine.
			Power -Practical	Different components and their functions
				CO2: Learn Ignition and power transmission
				system of I.C engine
				CO3: Explain sowing equipment, Seed cum
				fertilizer drills and sprayers
30	III	CPHY261	Eco- Physiology	CO1: Explain concepts and components of
				ecophysiology and its influence
				on crop distribution.
				environments on biotic and abiotic components
				CO3 : Distinguish between iconic and osmotic
				balance and types of competition in agriculture
				cropping.
				CO4: Explain the scope of allelopathy and
				phyto-remediation in agriculture
				CO5: Summarize the sources, effects of
				pollution, global warming on agricultural field
24	TTT			crop productivity.
51	111		Practical	obviology and environment
			i lauludi	CO2: Outline about control mechanism and
				environment.
				CO3: Explain about impact of different
				environments on life processes and osmotic
				Balance
32	III	PATH271	Fundamentals of	CO1: Explain the history, concepts, patterns of
			Plant Pathology-II	survival and dispersal of plant pathogens.
				CO2: Outline the phenomenon of infections and
				pathogenesis.

				CO3: Summarize the principles of plant disease
				management and different defence
				mechanisms.
				CO4: Explain methods of eradication for
				phytopathogens
33	III	PATH271P		CO1: Explain about Survival of plant pathogens
			Fundamentals of	and kinds of inoculum primary and secondary
			Plant Pathology- II-	inoculum pattern of survival
			Practical	CO2: Outline about Toxins - nathotoxins
				obstatoving and vivatoving colocitive (best
				phytotoxins and vivotoxins, selective (nost
				specific) and non-selective (nost non-specific)
				CO3: Explain about Dispersal of plant
				pathogens - active dispersal
34	III	HORT281	Production	CO1: Classify and explain the importance of
			Technology for	vegetables and spices in human nutrition and
			Vegetables and	national economy.
			Spices	CO2: Outline the agronomical practices for
				vegetables, fruits and spices.
				CO3: Summarize physiological disorders of
				vegetables, fruits and spices.
				CO4: Explain disease and pest control and in
				vegetables, fruits and spices and seed
		_		production techniques.
35	III	HORT281P	Production	CO1: Explain about origin, and area
			Technology for	climate, soil, improved varieties and cultivation
			Vegetables and	practices
			Spices- Practical	CO2: Classify about Physiological disorders
				Disease and pest control and seed production.
				CO3: Learn about transplanting techniques,
				Planting distance, Fertilizer requirements
				Irrigation, Weed management, Harvesting,
				Yield, Storage
36	III	AEXT291	Fundamentals Of	CO1: Explain the concepts and development of
			Agricultural	different types of extension education.
			Extension	CO2: List and explain agriculture extension
				development programmes of GOI and new
				trends in agricultural extension.
				CO3: Summarize different systems and
				schemes for community and rural development.
				CO4: Examine programmes for social justice,
				women development and explain training in
				rural leadership, extension administration and
				also for professional qualification and
				communication models.
37	III	AEXT291P	Fundamentals Of	CO1: Explain about Education, Meaning.
			Agricultural	definition and Types
			Extension -Practical	CO2: Explain Objectives and principles of

				CO3: Outline and understand extension efforts
				in pre-independence era Extension/ Agriculture
				development programmes.
38	IV	AGRO202	Crop Production	CO1: Explain the cultivation of oil seed crops
			Technology–II	and their importance in Indian economy.
			0,	CO2: Outline the cultivation of fibre crops and
				their importance in Indian economy.
				CO3: Summarize agronomical practices for
				sugar and tuber crops and their contribution to
				the Indian economy.
				CO4: Discuss farming practices for tobacco
				crops and their significance in the Indian
				economy and forage crops and their
				importance.
39	IV	AGRO202P	Crop Production	CO1: Explain Importance of oilseed crops-
			Technology-II-	edible and non – edible oils – nutritional value
			Practical	importance in Indian economy
				CO2: Explain Soil and climatic requirements -
				types - growth stages - land Preparation -seeds
				and sowing- seed treatment-seed rate-
				spacing-season-time and method of sowing
				Varieties
				CO3: Classify Nutrient and Nursery
				management- water management- weed
				management yield attributes – yield- Harvesting
				 post harvest operations- quality considerations
10	TX 7		Invigation suctor	cropping systems
40	1 V	AGROZUS	monogement 8	cor: Summarize the farming and cropping
				CO2: List and explain different allied
			ianning systems	enterprises.
				CO3: Explain the techniques of sustainable
				agriculture and development of integrated
				farming systems including models for different
				agri-climatic zones
				CO4: Discuss the properties and relationship of
				natural resources and their importance in
				ntegrated farming systd methods of
				irrigation.
41	IV	AGRO203P	Irrigation water	CO1: Explain Farming Systems, scope of
			management &	farming system, importance and principles of
			farming systems -	farming system
			Practical	CO2: Classify Types of farming systems,
				advantages and limitations
				CO3: Summarize Allied enterprises on
				sericulture, moriculture and silkworm rearing
				and
				sustainability indicators.

42	IV	SSAC221	Manures, fertilizers	CO1: Discuss the conceptual framework of soil
			and soll rentility	CO2: Classify plant nutrients and
				explain putrient cycles
				CO3: Summarize the deficiency and toxicity
				symptoms in plants and corrective measures
				CO4: Discuss the methods of soil fortility
				co4. Discuss the methods of soil fertility
				fertilizer application in Agriculture
43	IV	SSAC221P	Manures fertilizers	CO1: Explain History of soil fertility and plant
	1 Y	00/(02211	and soil fertility -	nutrition Concepts of soil fertility
			Dractical	soil productivity
			Tactical	CO2: Explain essential nutrients Classification
				and their functions in plants
				CO3: Outline Deficiency symptoms of nutrients
				Corrective measures. Toxicity symptoms of numerics,
				different nutrients
11	IV	SMCA201	Statistical mothoda	CO1: Explain the importance and limitations of
	1 V	SINCAZOT	Statistical methous	statistics in agriculture
				CO2: Interpret agricultural data using central
				tendency and dispersion measures.
				CO3: Explain the importance of probability and
				testing of hypothesis measures in agricultural
				field data.
				CO4: Apply the correlation and regression
				methods to interpret agricultural data and
				apply
				ANOVA and Sampling methods.
45	IV	SMCA201P	Statistical methods-	CO1: Explain Importance of Statistics in
			Practical	agriculture - limitations of statistics.
				CO2: Classify about Frequency Distribution
				CO3: Outcome about Measures of Dispersion
				and testing of hypothesis
46	IV	PMRD202	Rural Development	CO1: Explain types of planning process in rural
			Planning and	development.
			Management	CO2: Discuss the decentralization of planning.
				CO3: Elaborate on different levels of planning.
				CO4: Discuss strategies for sustainable
				development in rural areas.
47	IV	LSPM201	Livestock and poultry	CO1: Elaborate on the demographic
			management	distribution and population dynamics of
			-	livestock
				CO2: Explain the design and construction of
				livestock and poultry buildings.
				CO3: Categorize the breeds of livestock and
				explain their management.
				CO4: Discuss the nutritional and Disease
				management of livestock and poultry.
48	IV	LSPM201P	Livestock and poultry	CO1: Explain demographic distribution of live-
				stock population

			management -	CO2: Outline Population dynamics of live-stock
			Practical	and role in Indian economy
				CO3: Classify Design and construction of live-
				stock and poultry buildings and Incubation,
				hatching and brooding
49	IV	AECO242	Agricultural	CO1: Explain different aspects of agricultural
			Marketing, Trade	marketing.
			and Prices	CO2: Discuss facilitating functions, market
				functionaries, supply chain management,
				market promotion
				CO3: Outline the factors affecting demand and
				supply of agricultural farm products
				segmentation, integration, cost, regulated
				markets and government interventions.
50	IV	AECO242P	Agricultural	CO1: Learn Demand and supply of agri
			Marketing, Trade	commodities, factors affecting the demand and
			and Prices -Practical	supply of farm products
				CO2: Understand Marketing process and
				Functions
				CO3: Understand Packing and packaging,
				branding, grading, standardization, FAQs major
				crop produce, quality control and labeling -
				AGMARK, HACCP FSSAI, CODEX and 4ps of
54	1) /			marketing.
51	IV	AENG252	Renewable Energy	CO1: Explain the classification, advantages an
			and Green	disadvantages of renewable energy sources.
			rechnology	evolution the uses
				CO3: Outline the methods of tapping solar
				energy and its applications
				CO4: Summarize the types, construction and
				applications of wind mills and biomass.
52	IV	AENG252P	Renewable Energy	CO1: Importance of biomass,
			and Green	classification of energy production - Principles o
			Technology -	combustion, pyrolysis and gasification
			Practical	CO2: Classification, types of biogas
				plants.
				CO3: Explain Types of gasifiers and solar
				energy.
53	IV	HORT282	Production	CO1: Explain the principles of land scaping and
			Technology for	importance of ornamental plants.
			,Medicinal and	CO2: Discuss the production technology of
			Aromatic plants	different types of ornamental crops
				CO3: Examine the production technology of
				medicinal and aromatic crops.
				ornamental medicinal and aromatic cross
54		HORT282D	Production	CO1: Explain the Importance and scope of
54	I V	1101112025		ornamental crops and landscaping
				omamental crops and landscaping

			Technology for	CO2: Outline the Principles of landscaping		
			Medicinal and	CO3: Explain Production technology of cut and		
			Aromatic Plants -	loose flowers under protected conditions		
			Practical			
55	IV	AEXT292	Entrepreneurship	CO1: Explain concepts of entrepreneur,		
			Development and	entrepreneurship and its development in the		
			Business	Indian agricultural sector.		
				CO2: Outline the use of SWOT analysis to		
				assess agri-enterprises and various skills reuired for successful entrepreneurship.		
				CO3: Summarize governmental and non-		
				governmental agencies in entrepreneurship		
				development in Indian agricultural sector.		
				CO4: Classify the types of agri entreprises and		
FC	1) /		Entropropourobio	supply chain and markriing management.		
50	IV	AEA1292P	Entrepreneurship	concept of entrepreneur,		
			Development and	entrepreneursnip		
			Business - Practical	CO2: Explain characteristics of entrepreneurs-		
				opportunities for entrepreneurship and rural		
				entrepreneurship		
				CO3: Learn Entrepreneurship development		
57	\/		Cao Information and	programmes (EDPS), SWOT Analysis.		
57	V	AGROSUI	Geo momatics and	COT: Explain AGRO Precision agriculture.		
			nanotechnology	concepts and techniques-issues and		
				concerns for		
				definition concents tools and tools inves		
				definition, concepts, tools and techniques		
				and their		
				use in Precision Agriculture.		
				Vield monitoring techniques		
				CO4 : Analyse AGRO Spatial data and their		
				management in GIS & AGRO application of		
				nanotechnology in Agriculture- tillage seed		
				water fertilizers plant protection for scaling-up		
				farm Productivity		
58	V	AGRO301P	Geo Informatics and	C01: Explain the SSAC GIS software, spatial		
			nanotechnology-	data creation and editing and processing		
			Practical	Software		
				CO2: Summarise AGRO Supervised and		
				unsupervised classification and acreage		
				estimation.		
				CO3: Explain soil fertility based on GIS & outline		
				productivity and management zones and		
				fertilizers recommendations based of VRT and		
				STCR techniques.		
50	V	BICM300	Principles of food	CO1: Explain Concepts of food science -		

			science and nutrition	Definitions of food, specific nutrients in foods
				and their functions
				CO2: Explain food physical characteristics
				CO3: Outline food composition.
				CO4 : Explain biomolecules of Carbohydrates,
				Proteins, Fatty acids and food additives.
60	V	BICM300P	Principles of food	CO1: Explain concepts of food science
			science and	CO2: Discuss food composition
			nutrition-Practical	CO3: Explain structure and functions of
				proteins, fats and oils.
61	V	GPBR311	Crop improvement-I	CO1: Explain Introduction – General Breeding
				Objectives, Concepts of breeding self-pollinated,
				cross pollinated and vegetatively propagated
				crops
				CO2: Discuss Cereals, Rice, Origin, Distribution
				of species – Wild relatives and forms –Breeding
				objectives – Major breeding procedures
				CO3: Explain Cereals - Wheat and Barley -
				Origin – Distribution of species – Wild relatives
				and forms – Breeding objectives – Major
				breeding procedures
				CO4: Outline Pulses and oilseeds-
				coconut,oilpalm- Pigeonpea - Origin –
				Distribution of species – Wild relatives and form
				 Breeding objectives – Major breeding
				procedures
62	V	GPBR311P	Crop improvement-I	CO1: Explain Hybridization techniques and
			-Practical	precautions to be taken, Floral morphology,
				selfing, emasculation and crossing techniques i
				field crops.
				CO2: Explain Hybridization techniques and
				precautions to be taken, Floral morphology,
				selfing, emasculation and crossing techniques i
				Millets
				CO3: Explain Hybridization techniques and
				precautions to be taken, Floral morphology,
				selfing, emasculation and crossing techniques in
00	\ /	0040004	Destruction	Peas
63	V	33AU321	Problematic solis	Different types of problem soils -Definition -
				CO2: Explain Salt affected soils
			management	Explain Salt anected Solls – Origin and
				CO3: Identify Saling soils Visual symptoms for
				identification of saline soils
				CO4. Outline Sodic soils - Visual symptoms for
1	1	1	1	

				identification of sodic soils & examine acid
64	V	SSAC321P	Problematic soils	CO1: Explain identification of problematic soils
04	v	00/(00211	and their	and their management
			management	CO2: Discuss infiltration rates of light soils and
			Practical	infiltration rates of beavy soils
			Tactical	CO3 : Explain pH_EC of acid_saline and sodic
				Soils
65	V	AENG351	Protected cultivation	CO1: Explain Definition, greenhouse effect
00	·		and postharvest	advantages of green houses
			technologies	CO2: Outline types of greenhouses -
			toormologioo	Greenhouses based on shape utility
				construction covering materials and cost shade
				note
				CO3: Summarize criteria and constructional
				details of greenhouses - Construction of ping
				framed groophouses material requirement
				propagation of materials and procedure of
				preparation of materials and procedure of
				CO4 Explain Irrigation evotom used in
				CO4. Explain inigation system used in
				greennouses - Rules of watering, hand watering,
				perimeter watering, overnead sprinklers, boom
00	\ /			watering and drip irrigation
66	V	AENG351P	Protected cultivation	CO1: Explain different types of greenhouses
			and postnarvest	based on shape and functions and systems of
			technologies-	green houses.
			Practical	CO2: Discuss postnarvest technology
				CO3: Explain determination of moisture content
				in grains
67	V	ENTO331	Pests of field crops	CO1: Discuss general account on nature and
			and stored grain	type of damage by different arthropod pests
			management	CO2: Explain Economic Entomology and
				Economic Classification of Insect Pests
				CO3: Describe Pests of rice
				CO4: Explain Pests of sorghum and other millet
				& examine pests of cotton.
68	V	ENTO331P	Pests of field crops	CO1: Explain identification and symptoms of
			and stored grain	damage by various phytophagous insects
			management -	CO2: Summarise Calculations on the doses of
			Practical	insecticides and their application techniques
				CO3: Explain pests of pulse crop and their
				damage symptoms. Identification of insect
				pests of oil seed crops and their damage
				Symptoms
69	V	PATH371	Diseases of field	CO1: Explain Rice diseases
			crops and their	CO2: Explain Maize diseases
			management-I	CO3: Explain Sorghum diseases

				CO4: Summarize Bajra, Sugarcane, Bengal
				gram and Tobacco diseases
70	V	PATH371P	Diseases of field	CO1: Explain symptoms, identification and
			crops and their	histopathologicalstudies of rice,
			management-I -	Wheat, Sorghum and Bajra diseases.
			Practical	CO2: Explain symptoms, identification and
				histopathological studies of Maize and Finger
				millet
				CO3: Explain symptoms, identification and
				histopathological studies of Sugarcane and
				ground nut
71	V	PATH372	Integrated pest and	CO1: Summarize and present Concepts of IPM
			disease	CO2: Discuss the importance of ecological and
			management	evolutionary knowledge in IPM success.
				CO3: Explain Classification of fungicides based
				on chemical group and antibiotics.
				CO4: Summarize Integrated disease
				management in important crops and explain
				implementation and impact of IPM.(IPM module
				insect pest)
72	V	PATH372P	Integrated pest and	CO1: Explain plant diseases based on
			disease	symptoms and signs
			management -	CO2: Discuss biocontrol agents.
			Practical	CO3: Explain IDM and Non-IDM methods for
				plant diseases control
73	V	RERD303	Rural	CO1: Discuss Rural Industrialisation 14 hours
			industrialization and	Concept,
			entrepreneurship	Need and Importance
				CO2: Explain growth of Rural Industries in India
				– Gandhian Approach and Modern Approach
				CO3: Identify Problems and Remedies of Rural
				Industrialisation.
				CO4: Examine Growth and Structure of Rural
				Industries, Current Status, Measures to Sustain
				Growth, Sickness – Remedial Measures and
74				outline the definition, role and present position.
14	V	CPHY361		CU1: Understand environmental studies-
			studies and disaster	Definition- Scope and importance
			management	CO2: Explain natural resources, Renewable
				and non-renewable resources.
				CO3: Explain resources, Sources, uses and over
				utilization of surface and groundwater - Dams -
				Benetits and problems – Sustainable
				management of water.
				CO4: Explain threats to biodiversity – Habitat
				loss - Poaching of wild life - Man-wild life

				conflicts - Conservation of biodiversity - In situ
				and ex situ & environmental pollution, Causes,
				effects and control of air and water pollution
				tolerable limits for toxic gases in air.
75	V	CPHY361P	Environmental	CO1: Explain Collection, processing and
			studies and disaster	storageof effluent samples
			management -	CO2: Discuss Determination of chemical oxyge
			Practical	demand in waste water sample and total
				dissolved solids in waste water sample.
				CO3: Outline temporary hardness of waste
				water sample by titration.
76	VI	AGRO303	Rainfed Agriculture	CO1: Understand about rainfed agriculture and
			and watershed	its introduction, problem and prospects in India.
			management	CO2: Describe farming practices that rely on
				rainfall for water.
				CO3: Understand objective, principles and
				component of watershed management.
				CO4: Explain Conservation of soil by adopting
				latest soil conservation techniques will help in
				obtaining higher production of Rainfed crops and
				introduction of improved soil and moisture
				conservation.
77	VI	AGRO303P	Rainfed Agriculture	CO1: Discuss climatic classification, rainfall
			and watershed	Analysis
			management -	CO2: Explain onset and withdrawal of monsoon
			Practical	and cropping pattern for different areas
				CO3: outline meteorological data for rainfall
				Variability
78	VI	SMCA301	Agriculture	CO1: Explain Windows explorer- Creating
			Informatics	folder
				- Copy and paste functions - Control panel
				Notepad -WordPad etc.
				CO2: Summarize MS word - Creating a
				document, saving and editing.
				CO3: Discuss Use of options from tool bars –
				Format - Insert and tools (Spelling and
				Grammar) - Alignment of paragraphs and text.
				CO4 : Explain to Creating a table - Merging of
				cells - columns and row width - Formats etc.
79	VI	SMCA301P	Agriculture	CO1: Explain the basics of computer and tool
			Informatics -Practical	Bars
				CO2: Discuss Notepad, MS word and Excel
				CO3: Explain creating a table, Merging of cells,
		00000000		columns and row width Formats
80	VI	GPBR312	Crop Improvement-II	CO1: Explain origin, distribution and different
			and seed technology	breeding methods

				CO2: Discuss adopted for the development of
				varieties / hybrids in various
				field and horticultural crops
				CO3: Explain about the plant genetic
				resources,
				centers of diversity and breeding for resistance
				to biotic and abiotic stresses
				CO4: Learn about the procedure of production
				of hybrid seed in different crops.
81	VI	GPBR312P	Crop Improvement-II	CO1: Explain Hybridization techniques and
			and seed technology	precautions to be taken - Floral morphology,
			-Practical	selfing, emasculation and crossing techniques in
				field crops.
				CO2: Summarise Floral biology, anthesis,
				pollination, selfing, emasculation and crossing
				techniques in field crops.
				CO3: Explain Floral biology, anthesis,
				pollination, selfing, emasculation and crossing
				techniques in vegetables.
82	VI	ENTO332	Pests of Horticultural	CO1: Explain all major pests of crops as regard
			crops and beneficial	their taxonomic position, distribution, host
			insects	range, life history, nature and symptoms of
				damage.
				CO2: Explain Seasonal abundance and their
				management.
				CO3: Discuss minor pests their taxonomic
				position, nature and symptoms of damage
				CO4: Explain Management have been covered
				with additional information wherever necessary.
83	VI	ENTO332P	Pests of Horticultural	CO1: Explain identification, symptoms and
			crops and beneficial	management of insect pests of solanaceous an
			insects- Practical	malvaceous vegetables
				CO2: Explain identification. symptoms and
				management of insect pests of crucifers and
				cucurbits
				CO3: Discuss identification. symptoms and
				management of insect pests of tuber crops and
				chili
84	VI	PATH373	Diseases of	CO1: Explain Guava, Papaya, Ber and Sapota
			horticultural crops	diseases
			and their	CO2: Discuss Citrus, Guava, Papava, Ber and
			management-II	Sapota diseases
				CO3: Explain Banana diseases
				CO4: Summarize Pomedranate diseases and
				venetables diseases
9 <i>E</i>	\/I		Discossos of	CO1. Evaluin cumptome Identification and
00	VI	FAIDS/3P	DISEASES OI	vvi. Explain symptoms, identification and

			horticultural crops	histopathological studies of citrus and mango.
			and their	CO2: Explain symptoms, Identification and
			management-II -	histopathological studies of Ber, guava and
			Practical	sapota diseases.
				CO3: Discuss symptoms, Identification and
				histopathological studies of papaya, banana
				and pomegranate diseases.
86	VI	HORT381	Post-harvest	CO1: Explain Various methods of packaging-
			management of	packaging materials and transport, Packaging
			Fruits and	Technology
			vegetables	CO2: Discuss various Methods of storage-
				precooling, pre storage treatments, low
				temperature storage, controlled atmosphere
				storage
				CO3: Explain Chemicals used in Ripening
				CO4: Summarize Irradiation and low
				cost
				storage structures
87	VI	HORT381P	Post-harvest	CO1: Explain different types of packaging
			management of	containers for shelf-life extension
			Fruits and	CO2: Explain preparation of jams and jelly
			vegetables -Practical	CO3: Discuss preparation of RTS
88	VI	AEXT391	Communication and	CO1: Explain Nonverbal communication skills -
			Personality	Practicing conscious body postures and
			Development	movements.
				CO2: Overview of verbal communication skills.
				CO3: Learn Practicing listening and note taking
				and writing skills.
				CO4: Practicing oral presentation skills &
				practicing writing of field diary and lab record-
				indexing, footnote and bibliographic
				procedures.
89	VI	AEXT391P	Communication and	CO1: Explain communication and nonverbal
			Personality	communication skills
			Development-	CO2: Explain verbal communication skills
			Practical	CO3: Discuss oral communication skills
90	VI	AECO341	Farm Management	CO1: Assist farm managers in determining the
			and Resource	best use of resources, given the changing
			economics	needs, values and goals of the society.
				CO2: Explain policy makers in determining the
				consequences of alternative public policies on
				output, profits and resource use on farms.
				CO3: Evaluate the uses of theory of firm for
				improving farm management and understanding
				the behaviour of the farm as a profit maximizing
				entity.

				CO4: Evaluate the effects of technical and
				institutional changes on agricultural production
				and resource use.
91	VI	AECO341P	Farm Management	CO1: Explain d ifferent methods computation of
			and Resource	depreciation cost of farm assets.
			economics-Practical	CO2: Explain selection of most profitable
				enterprise combination.
				CO3: Discuss farm holding surveys.
92	VI	AMBE373	Agriculture	CO1: Understand about Nutritional media and
			Microbiology	their preparations
				CO2: Explain isolation of azotobacter from soil
				CO3: Explain isolation of Rhizobium from
				legume root
				nodule
				CO4: Explain staining and microscopic
				examination of microbes.
93	VI	AMBE373P	Agricultural	CO1: Explain microbiology and equipments
			Microbiology-	CO2: Summarise methods of sterilization
			Practical	CO3: Explain staining and microscopic examination of biofertilizer organism
94	VI	BICM302	Fundamentals of	CO1: Assist in micro propagation units
			Plant Biotechnology	CO2: Determine the structures of proteins
				CO3: Determine the structures and functions of RNA and DNA
				CO4: Explain about enzyme activity
95	VI	BICM302P	Fundamentals of	CO1: Identify plant diversity and
			Plant Biotechnology-	their conservation through invitro
			Practical	propagation and maintenance of plant tissue
				culture laboratory.
				CO2: Discuss the widely exploited techniques in
				molecularbiology like isolation of plant genomic
				DNA, their separation by gel electrophoresis,
				amplification of separated DNA by polymerase
				chain reaction, construction of phylogenetic
				trees to study genetic relatedness, construction
				of genome maps using markers.
				CO3: Explain genetic engineering techniques
				and the importance of using GMOs as
				bioreactors for the inexpensive production of
				pharmaceuticals and neutraceuticals.
96	VII	RAWE	Rural Agricultural	CO1: Learn to get an on-campus training from
			work Experience and	various faculties before step into the village
			Agro-Industrial	attachment and Agro-industrial attachment
			Attachment (AIA)	CO2 : Learn and understand issues related to
				farming and rural development in a natural
				setting on real-time basis.

				CO3: Attach with the agri related industries and
				make them know about the functioning them.
				CO4: Propose a project based on his interest
				and concerned specialists will assist them to
				complete their project.
97	VIII	AELP	Agriculture	CO1: Produce biocontrol agents
			Experiential Learning	like Trichoderma, Pseudomonas and bio-
			Programme	fertilisers like phosphor-bacteria for commercial
				marketing
				CO2: Produce hybrid seeds of vegetables for
				commercial production and marketing.
				CO3: Analyse soil health and provide
				management solutions to farmers.
				CO4: Produce. Mushrooms, honev and
				vermicompost using their practical knowledge
				on commercial bee keeping.
98		20SDCVP2	Vermicompost	CO1: Identify raw materials needed for
			production	vermicomposting.
				CO2: Demonstrate the preparation and
				management of vermicompost beds.
				CO3: Explain nutrient value of vermicompost
				and advantages and disadvantages of
				vermicomposting.
99		20SDCZN2	Zero Budget Natural	CO1: Explain the methods of preparation of zer
			farming	budget natural farming, nutritive value and
				advantages and disadvantages.
				CO2: Identify the materials used to make
				natural
				fertilizers.
				CO3: Demonstrate procedure for the
				preparation of natural fertilizers.
100	111	20SDCBK2	Bee keeping	CO1: Explain suitable bee keeping species for
				bee keeping
				CO2: Discuss maintain the bee hives
				CO3: Outline methodologies of extracting,
				preservation and marketing of honey and other
				products of honey bee.
101	IV	20SDCMC2	Mushroom	CO1: Explain important types of Mushrooms
			cultivation	and their cultivation
				CO2: Explain maintenance of mushroom in
				hygienic and scientific way
				CO3: Explain value added products of
				mushroom
102	111	20LSCEE2	Environmental	CO1: Explain the concept of environmental
			education	ecology and education.
				CO2: To Grasp the significance of
				environmental education.

				CO3: Summerise the environmental education with regard to Indian Policies
103	IV	20LSCED2	Entrepreneurship Development	 CO1: Explain concepts of entrepreneur, entrepreneurship, and its development in the Indian agricultural sector CO2: Outline the use of SWOT analysis to assess agri-entreprisesand various skills required for successful entrepreneurship CO3: Summerise governmental and non- governmental agencies in entrepreneurship development in the Indian agriculture sector

Mapping of COs with PSOs and & POs

S.No.	Sem	Course Code	Course Title	COs	PSOs	POs
				CO1	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
1		AGRO101	Fundamentals of	CO2	PSO1, PSO2, PSO3	PO1, PO2, PO3, PO4
		ACITOT	agronomy	CO3	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
				CO4	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5, PO6
			Fundamentela of	CO1	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
2	I	AGRO101P	agronomy- practical	CO2	PSO1, PSO2, PSO3	PO1, PO2, PO3, PO4
			P	CO3	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
				CO1	PSO1, PSO2, SO3, PSO4	PO1, PO2, PO3, PO4, PO5
2	I	BICM101	Fundamentals of Plant Biochemistry and Soil Science	CO2	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
5				CO3	PSO1, PSO2, PSO3, PSO4	PO1, PO3, PO4, PO5
				CO4	PSO1, PSO2, PSO3	PO1, PO2, PO3, PO4, PO5
		BICM101P	Fundamentals of Plant Biochemistry and Soil Science- Practical	CO1	PSO1, PSO2, SO3, PSO4	PO1, PO2, PO3, PO4, PO5
4	I			CO2	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
				CO3	PSO1, PSO2, PSO3, PSO4	PO1, PO3, PO4, PO5
				CO1	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO5
5			Fundamentals of	CO2	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
5		ALCOIT	economics	CO3	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
				CO4	PSO1, PSO2, PSO3	PO1, PO2, PO3, PO4
				CO1	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
6	1	HORT181	Fundamentals of	CO2	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
0			Horticulture	CO3	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
				CO4	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5

7		HORT181P	Fundamentals of	CO1	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
7	1		Horticulture- Practical	CO_2	PSO1, PSO2,	PO1, PO2, PO3,
			Tactical	002	PSO3, PSO4	PO4, PO5
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
				000	PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
				001	PSO3, PSO4	PO4, PO5
			Rural Sociology &	CO2	PSO1, PSO2,	PO1, PO2, PO3,
8	l	AEXT191	Educational	002	PSO3	PO5
			Psychology.	CO3	PSO1, PSO2,	PO1, PO2, PO3,
				000	PSO3, PSO4	PO4, PO5
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
				004	PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
				001	PSO3, PSO4	PO4, PO5
			Agro Meteorology	CO2	PSO1, PSO2,	PO1, PO2, PO3,
9	II	AGRO102	and Climate Change	001	PSO3, PSO4	PO4, PO5
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
				000	PSO3, PSO4	PO4, PO5
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
		AGRO102P	AgroMeteorology and Climate Change- Practical		PSO3, PSO4	PO4, PO5
10	II			CO2	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Fundamentals of	•••	PSO3, PSO4	PO4, PO5, PO6
				CO2	PSO1, PSO2,	PO1, PO2, PO3,
11	11	GPBR111	Genetics		PSO3, PSO4	PO4, PO5, PO6
			Oenelius	CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5, PO6
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3	PO4, PO5, PO6
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Fundamentals of		PS03, PS04	PO4, PO5, PO6
12	II	GPBR111P	Genetics- Practical	CO2	PSO1, PSO2,	PO1, PO2, PO3,
					PS03, PS04	PO4, PO5, PO6
				CO3	PS01, PS02,	PO1, PO2, PO3,
					PS03, PS04	PO4, PO5, PO6
				CO1	PSU1, PSU2,	PU1, PU2, PU3,
					F303, F304	FU4, FU5, FU6
			Fundamentals of	CO2	PS01, PS02,	PO1, PO2, PO3,
					PS03, PS04	PU4, PU5

13	II	ENTO131	Entomology- I	CO3	PSO1, PSO2,	PO1, PO2, PO3,
				003	PSO3, PSO4	PO4, PO5, PO6
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
				004	PSO3, PSO4	PO4, PO5, PO6
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Fundamentals of		PSO3, PSO4	PO4, PO5, PO6
14	П	ENTO131P	Entomology- I-	CO2	PSO1, PSO2,	PO1, PO2, PO3,
			Practical	002	PSO3, PSO4	PO4, PO5
				0.03	PSO1, PSO2,	PO1, PO2, PO3,
				000	PSO3, PSO4	PO4, PO5, PO6
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Soil and Water		PSO3, PSO4	PO4, PO5, PO6
15	П	AENG151	Conservation	CO2	PSO1, PSO2,	PO1, PO2, PO3,
			engineering		PSO3, PSO4	PO4, PO5
					PSO1, PSO2,	PO1, PO2, PO3,
				CO3	PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
		AENG151P	Soil and Water	001	PSO3, PSO4	PO4, PO5, PO6
16	П		Conservation	0.02	PSO1, PSO2,	PO1, PO2, PO3,
			engineering-	002	PSO3, PSO4	PO4, PO5
			practical	003	PSO1, PSO2,	PO1, PO2, PO3,
				000	PSO3, PSO4	PO4, PO5, PO6
					PSO1, PSO2,	PO1, PO2, PO3,
		PATH171	Fundamentals of Plant Pathology-I	CO1	PSO3, PSO4	PO4, PO5, PO6
				co^{2}	PSO1, PSO2,	PO1, PO2, PO3,
17	II			002	PSO3, PO4	PO4, PO5
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
				005	PSO3, PSO4	PO4, PO5, PO6
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
				004	PSO3, PSO4	PO4, PO5, PO6
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Fundamentals of	001	PSO3, PSO4	PO4, PO5, PO6
18	П	PATH171P	Plant Pathology-I-	CO2	PSO1, PSO2,	PO1, PO2, PO3,
			Practical	001	PSO3, PSO4	PO4, PO5
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5, PO6
				CO1	PSO2, PSO3,	PO1, PO2, PO3,
			Oren Dreckvetien		PSO4	PO4, PO5, PO6
			Crop Production	CO2	PSO1, PSO2,	PO1, PO2, PO3,
19	111	AGRO201	rechnology -i		PSO3, PSO4	PO4, PO5, PO6
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3	PO4, PO5, PO6

			Crop Production	CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Technology-I -	001	PSO3, PSO4	PO4, PO5
20	Ш	AGRO201P	Practical	CO_2	PSO1, PSO2,	PO1, PO2, PO3,
				002	PSO3, PSO4	PO4, PO5, PO6
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
				005	PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
				001	PSO3, PSO4	PO4, PO5
			Eurodomontolo of	CO_2	PSO1, PSO2,	PO1, PO2, PO3,
21	Ш	GPBR211	Fundamentals of	002	PSO3, PSO4	PO4, PO5, PO6
			Flant breeding	003	PSO1, PSO2,	PO1, PO2, PO3,
				000	PSO3, PSO4	PO4, PO5
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3	PO4, PO6.
			Fundamentals of	CO1	PSO1, PSO2,	PO1, PO2, PO3,
22		GPBR211P	Plant Breeding-		PSO3, PSO4	PO4, PO5
			Practical	CO2	PSO1, PSO2,	PO1, PO2, PO3,
				001	PSO3, PSO4	PO4, PO5, PO6
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5, PO6
			Economics for	CO2	PSO1, PSO2,	PO1, PO2, PO3,
23 II		AERD201	Rural development		PSO3	PO4, PO5, PO6
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5, PO6
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
					PS03, PS04	P04, P05
0.4			Fundamentals of	CO2	PSO1, PSO2,	P01, P02, P03,
24	111	EN10231	Entomology- II		PS03, PS04	P04, P05
				CO3	PSO1, PSO2,	P01, P02, P03,
					PS03, PS04	P04, P05, P06
				CO4	PS01, PS02,	PO1, PO2, PO3,
					PSU3	P04, P05
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
0.5			Fundamentals of		PSO3, PSO4	
25	111	ENIO231P	Entomology-II-	CO2	F301, F302,	PO1, PO2, PO3, PO1, PO5
			Practical		PSO1 PSO2	
				CO3	PSO3 PSO4	PO4 PO5 PO6
					PSO1 PSO2	PO1 PO2 PO3
				CO1	PSO3 PSO4	PO4 PO5 PO6
			A ariaultural		PSO1 PSO2	PO1 PO2 PO3
			Agricultural	CO2	1.001,1.002,	101,102,100,

26	Ш	AECO241	Finance and		PSO3, PSO4	PO4, PO5, PO6
			Cooperation		PSO1 PSO2	
				CO3	PSO3 PSO4	PO4 PO5 PO6
					PSO1 PSO2	PO1 PO2 PO3
				CO4	PSO3	PO4, PO5, PO6
				001	PSO1, PSO2,	PO1, PO2, PO3,
			Agricultural	CO1	PSO3, PSO4	PO4, PO5, PO6
27	ш	AECO241P	Finance and	000	PSO1, PSO2,	PO1, PO2, PO3,
<u> </u>			Cooperation-	CO2	PSO3, PSO4	PO4, PO5, PO6
			Practical	<u> </u>	PSO1, PSO2,	PO1, PO2, PO3,
				003	PSO3, PSO4	PO4, PO5, PO6
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
				COT	PSO3, PSO4	PO4, PO5
			E	<u> </u>	PSO1, PSO2,	PO1, PO2, PO3,
28	Ш	AENG251	Farm machinery	002	PSO3, PSO4	PO4, PO5
			and Power	CO3	PSO1, PSO2,	PO1, PO2, PO3,
				005	PSO3, PSO4	PO4, PO5
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
				004	PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Farm machinery		PSO3, PSO4	PO4, PO5
29	Ш	AENG251P	and Power -	CO2	PSO1, PSO2,	PO1, PO2, PO3,
			Practical		PSO3, PSO4	PO4, PO5
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3
					PSO3, PSO4	
				CO2	PSO1, PSO2,	PO1, PO2, PO3,
30		CPHY261	Eco-Physiology		PSO3	PO4, PO5
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PS03, PS04	P04
				CO4	PS01, PS02, PS02, PS03, PS03, PS04, PS04	PO1, PO2, PO3,
					PSO3, PSO4	
				CO5	PSO3 PSO4	PO1, PO2, PO3, PO4, PO5
					PSO1 PSO2	PO1 PO2 PO3
				CO1	PSO3 PSO4	F01, F02, F03
24			Eco-Physiology -		PSO1 PSO2	PO1 PO2 PO3
31	111	CPH1201P	Practical	CO2	PSO3	PO4 PO5
					PSO1 PSO2	PO1 PO2 PO3
				CO3	PSO3 PSO4	PO4
					PSO1, PSO2.	PO1, PO2, PO3.
				CO1	PSO3. PSO4	PO4, PO5
				000	PSO1. PSO2.	PO1, PO2, PO3.
			Fundamentals of	CO2	PSO3	PO4, PO5
1						•

32	111	PATH271	Pathology-I	CO_2	PSO1, PSO2,	PO1, PO2, PO3,
				003	PSO3, PSO4	PO4, PO5
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
				004	PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Fundamentals of	001	PSO3, PSO4	PO4, PO5
33	Ш	PATH271P	Pathology-I-	CO2	PSO1, PSO2,	PO1, PO2, PO3,
			Practical	002	PSO3	PO4, PO5
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Draduction		PSO3, PSO4	PO4
			Tochnology for	CO2	PSO1, PSO2,	PO1, PO2, PO3,
34	111	HORT281	Vegetables and		PSO3, PSO4	PO4, PO5
			spices	CO3	PSO1, PSO2,	PO1, PO2, PO3,
			501005		PSO3, PSO4	PO4, PO5
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
-					PSO3	PO4
			Draduction	CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Production Technology for		PSO3, PSO4	PO4
35	Ш	HORT281P	Vegetables and	CO2	PSO1, PSO2,	PO1, PO2, PO3,
			spices-Practical		PS03, PS04	PO4, PO5
			spices-i ractical	CO3	PSO1, PSO2,	P01, P02, P03,
					PS03, PS04	P04, P05
				CO1	PS01, PS02,	PO1, PO2, PO3,
		AEXT291	Fundamentals of Agricultural		PSO3, PSO4	
26				CO2	PSO1, PSO2,	PO1, PO2, PO3, PO4, PO5
30					PSO1 PSO2	
			Extension	CO3	PSO3 PSO4	PO1, PO2, PO3, PO4, PO5
					PSO1 PSO2	PO1 PO2 PO3
				CO4	PSO3	PO4 PO5
					PS01 PS02	PO1 PO2 PO3
			Fundamentals of	CO1	PSO3, PSO4	PO4. PO5
37	ш	AFXT201P	Agricultural		PSO1, PSO2,	PO1, PO2, PO3,
57			Extension -	CO2	PSO3, PSO4	PO4, PO5
			Practical		PSO1, PSO2,	PO1, PO2, PO3,
				CO3	PSO3, PSO4	PO4, PO5
				001	PSO1, PSO2,	PO1, PO2, PO3,
				COT	PSO3, PSO4	PO4, PO5
				000	PSO1, PSO2,	PO1, PO2, PO3,
38	IV	AGRO202	Crop Production	002	PSO3, PSO4	PO4, PO5
			technology-II	000	PSO1, PSO2,	PO1, PO2, PO3,
				003	PSO3, PSO4	PO4, PO5
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
				004		

					PSO3	PO4
				CO1	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
39	IV	AGRO202P	technology-II-	CO2	PSO1, PSO2,	PO1, PO2, PO3, PO4, PO5
			Practical	CO3	PSO1, PSO2,	PO1, PO2, PO3, PO4, PO5
				CO1	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4
40	1\7	AGRO203	Irrigation, water management & farming systems	CO2	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
40	ĪV	AUNUZUJ		CO3	PSO1, PSO2,	PO1, PO2, PO3, PO4, PO5
				CO4	PS01, PS02,	P04, P03 P01, P02, P03,
			Irrigation, water	CO1	PS03, PS04 PS01, PS02,	P04, P05 P01, P02, P03,
41	IV	AGRO203P	farming systems -	CO2	PS03, PS04 PS01, PS02,	PO1, PO2, PO3,
			Practical	CO3 PSO3, PSO4	PS03, PS04 PS01, PS02,	PO4, PO5 PO1, PO2, PO3,
			Manures, Fertilizers and soil fertility	CO1	PSO3, PSO4 PSO1, PSO2,	PO4, PO5 PO1, PO2, PO3,
42	IV	SSAC221		CO2	PSO3 PSO1, PSO2, PSO3, PSO4	PO4, PO5 PO1, PO2, PO3, PO4, PO5
				CO3	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
				CO4	PSO1, PSO2, PSO3	PO1, PO2, PO3, PO4, PO5
			Manures, Fertilizers and soil	CO1	PSO1, PSO2, PSO3	PO1, PO2, PO3, PO4, PO5
43	IV	SSAC221 P	fertility- Practical	CO2	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
				CO3	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
44		SMCA201	Statistical Methods	CO1	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
				CO2	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5
				CO3	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4
				CO4	PSO1, PSO2, PSO3	PO1, PO2, PO3, PO4
				CO1	PSO1, PSO2, PSO3, PSO4	PO1, PO2, PO3, PO4, PO5

45 IV SMCA201P Intellicular label P SOL, P SOL, P SOL, PSOL				Statistical Mothods Practical	CO2	PSO1, PSO2,	PO1, PO2, PO3,
46 IV PMRD202 Rural Development Planning & Management CO1 PS01, PS02, PS03, PS04 PO4, P05, PO4, P05 46 IV PMRD202 Rural Development Planning & Management CO1 PS01, PS02, PS03, PS04 PO4, P05, PO1, P02, P03, PS03, PS04 PO4, P05 47 IV LSPM201 Live-stock and Poultry management CO1 PS01, PS02, PS03, PS04 PO1, P02, P03, PO4, P05 47 IV LSPM201 Live-stock and Poultry management CO1 PS01, PS02, PS03, PS04 PO1, P02, P03, PS03, PS04 PO4, P05 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO1, P02, P03, PS03, PS04 PO4, P05 49 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 P04, P05 49 IV AECO242 Agricultural Marketing, Trade and Prices CO1 PS01, PS02, PS03, PS04 P04, P05 601 PS01, PS02, PS03, PS04 P04, P05 P04, P05 P04, P05 603 PS01, PS02, PS03, PS04 P04, P05 P04, P05	45	IV	SMCA201P	Methous-Fractical		PSO1 PSO2	PO1 PO2 PO3
46 IV PMRD202 Rural Development Planning & Management CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 46 IV PMRD202 Management CO2 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 47 IV LSPM201 Live-stock and Poultry management CO2 PS01, PS02, PS03, PS04 PO4, PO5 47 IV LSPM201 Live-stock and Poultry management CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 49 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO4, PO5 49 IV AECO242 Agricultural Marketing, Trade and Prices CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PS04, PO4, PO5 50 tu Agricultural Marketing, Trade CO1 PS01, PS02, PS03, PS04 PO4, PO5 601 PS01, PS02, PS03, PS04 PO4, PO5 PO4, PO5 PO4, PO5 603 PS					CO3	PSO3, PSO4	PO4
46 IV PMRD202 Rural Development Planning & Management PS03, PS04 P04, P05 46 IV PMRD202 Planning & Management PS03, PS04 P04, P05 46 IV PMRD202 Planning & Management PS01, PS02, PS03, PS04 P04, P05 47 IV LSPM201 Live-stock and Poultry management PS01, PS02, PS03, PS04 P01, P02, P03, PO4, P05 47 IV LSPM201 Live-stock and Poultry management PS01, PS02, PS03, PS04 P01, P02, P03, PS03, PS04 P04, P05 48 IV LSPM201P Live-stock and Poultry management- Practical PS01, PS02, PS03, PS04 P01, P02, P03, PS03, PS04 P04, P05 49 IV LSPM201P Live-stock and Poultry management- Practical PS01, PS02, PS03, PS04 P01, P02, P03, PS03, PS04 P04, P05 49 IV AECO242 Agricultural Marketing, Trade and Prices PS01, PS02, PS03, PS04 P01, P02, P03, PS03, PS04 P04, P05 49 IV AECO242 Agricultural Marketing, Trade PS01, PS02, PS03, PS04 P01, P02, P03, PS03, PS04 P04, P05 <td< td=""><td></td><td></td><td></td><td></td><td>CO1</td><td>PSO1, PSO2,</td><td>PO1, PO2, PO3,</td></td<>					CO1	PSO1, PSO2,	PO1, PO2, PO3,
46 IV PMRD202 Rural Development Planning & Management CO2 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 46 IV PMRD202 Management CO2 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 47 IV LSPM201 Live-stock and Poultry management CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 47 IV LSPM201 Live-stock and Poultry management CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PS03, PS04 PO4, PO5 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PS03, PS04 PO4, PO5 49 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PS03, PS04 PO4, PO5 49 IV AECO242 Agricultural Marketing, Trade and Prices CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PS03, PS04 PO4, PO5 49 IV AECO242 Agricultural Marketing, Trade CO2 PS01, PS02, PS03, PS04 PO4, PO5 60						PSO3, PSO4	PO4, PO5
46 IV PMRD202 Platining & Management PS03 PO4, PO5 46 Management CO3 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 47 IV LSPM201 Live-stock and Poultry management PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 47 IV LSPM201 Live-stock and Poultry management CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO4, PO5 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO4, PO5 49 IV AECO242 Agricultural Marketing, Trade and Prices CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PS03, PS04 PO4, PO5 50 IV Agricultural Marketing, Trade and Prices CO1 PS01, PS02, PS03, PS04 PO4, PO5 601 PS01, PS02, PS03, PS04 PO4, PO5 PO4, PO5 PO4, PO5 602 PS01, PS02, PS03, PS04 PO4, PO5 PO4, PO5 PO4, PO5				Rural Development	CO2	PSO1, PSO2,	PO1, PO2, PO3,
47 IV LSPM201 Live-stock and Poultry management CO3 PSO1, PSO2, PSO3, PSO4 PO1, PO2, PO3, PO4, PO5 47 IV LSPM201 Live-stock and Poultry management CO1 PSO1, PSO2, PSO3, PSO4 PO1, PO2, PO3, PO4, PO5 47 IV LSPM201 Live-stock and Poultry management CO1 PSO1, PSO2, PSO3, PSO4 PO1, PO2, PO3, PO4, PO5 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PSO1, PSO2, PSO3, PSO4 PO4, PO5 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PSO1, PSO2, PSO3, PSO4 PO4, PO5 49 IV AECO242 Agricultural Marketing, Trade and Prices CO1 PSO1, PSO2, PSO3, PSO4 PO1, PO2, PO3, PO4, PO5 49 IV AECO242 Agricultural Marketing, Trade and Prices CO1 PSO1, PSO2, PSO3, PSO4 PO1, PO2, PO3, PO4, PO5 50 Agricultural Marketing, Trade and Prices CO1 PSO1, PSO2, PSO3, PSO4 PO1, PO2, PO3, PO4, PO5 50 Agricultural Marketing, Trade and Prices PSO1, PSO2, PSO3, PSO4 PO4, PO5 <td>46</td> <td>IV</td> <td>PMRD202</td> <td>Planning &</td> <td>002</td> <td>PSO3</td> <td>PO4, PO5</td>	46	IV	PMRD202	Planning &	002	PSO3	PO4, PO5
47 IV LSPM201 Live-stock and Poultry management PS01, PS02, PS03, PS04 PO4, PO5 47 IV LSPM201 Live-stock and Poultry management CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 47 IV LSPM201 Live-stock and Poultry management CO2 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 49 IV AECO242 Agricultural Marketing, Trade and Prices CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO1, PO2, PO3, PS03, PS04 49 IV AECO242 Agricultural Marketing, Trade and Prices CO1 PS01, PS02, PS01, PS02, PO1, PO2, PO3, PS03, PS04 PO4, PO5 50 Agricultural Marketing, Trade CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PS03, PS04 50 Agricultural Marketing, Trade CO1 PS01, PS02, PS03,				Management	CO3	PSO1, PSO2,	PO1, PO2, PO3,
47 IV LSPM201 Live-stock and Poultry management PS01, PS02, PS03, PS04 PO1, P02, P03, PO4, PO5 47 IV LSPM201 Live-stock and Poultry management PS01, PS02, PS03, PS04 PO1, P02, P03, PO1, P02, P03, PS03, PS04 PO4, P05 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO1, P02, P03, PO1, P02, P03, PS03, PS04 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO1, P02, P03, PO4, P05 49 IV AECO242 Agricultural Marketing, Trade and Prices CO1 PS01, PS02, PS01, PS02, PS01, PS02, PS01, PS02, PO1, P02, P03, PS03, PS04 PO4, P05 50 Nu Agricultural Marketing, Trade and Prices CO1 PS01, PS02, PS03, PS04 PO1, P02, P03, PS03, PS04 50 Nu Agricultural Marketing, Trade CO1 PS01, PS02, PS03, PS04 PO4, P05 C04 PS01, PS02, PS03, PS04 PO4, P05 PO4, P05 CO2 PS01, PS02, PS03, PS04 PO4, P05 601 PS01, PS02, PS03, PS04 PO4, P05 PO4, P05 PO4, P0						PSO3, PSO4	PO4, PO5
47 IV LSPM201 Live-stock and Poultry management CO1 PS03, PS04 PO4, PO5 47 IV LSPM201 Live-stock and Poultry management CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PS03, PS04 PO4, PO5 49 IV LSPM201P Agricultural Marketing, Trade and Prices CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PS03, PS04 PO4, PO5 50 Agricultural Marketing, Trade Agricultural Marketing, Trade CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PS03, PS04 PO4, PO5 50 Agricultural Marketing, Trade Agricultural Marketing, Trade CO1 PS01, PS02, PS03, PS04 PO4, PO5 C04 PS01, PS02, PS03, PS04 PO4 PO3, PS03, PS04 PO4 50 Agricultural CO1 PS01, PS02, PS03, PS04 PO4, PO5					CO4	PSO1, PSO2,	PO1, PO2, PO3,
47 IV LSPM201 Live-stock and Poultry management FO1, FO2, FO3, PS03, PS04 PO4, PO5 47 IV LSPM201 Live-stock and Poultry management PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4 47 IV LSPM201 Live-stock and Poultry management PS01, PS02, PS03, PS04 PO4 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 49 IV AECO242 Agricultural Marketing, Trade and Prices CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 50 Agricultural Marketing, Trade CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PS03, PS04 50 Agricultural Marketing, Trade CO1 PS01, PS02, PS03, PS04 PO4, PO4 C04 PS01, PS02, PS03, PS04 PO4, PO4 PO4, PO5 50 Agricultural Marketing, Trade CO1 PS01, PS02, PS03, PS04 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>PS03, PS04</td> <td>P04, P05</td>						PS03, PS04	P04, P05
47 IV LSPM201 Live-stock and Poultry management PS01, PS02, PS03, PS04 P01, P02, P03, P04 47 IV LSPM201 Poultry management PS01, PS02, PS03, PS04 P04 P04 47 IV LSPM201 PS01, PS02, PS03, PS04 P04, P05, PO1, P02, P03, PS03, PS04 P04, P05 48 IV LSPM201P Live-stock and Poultry management- Practical C01 PS01, PS02, PS03, PS04 P04, P05 48 IV LSPM201P Live-stock and Poultry management- Practical C01 PS01, PS02, PS03, PS04 P04, P05 602 PS01, PS02, PS03, PS04 P04, P05 C02 PS01, PS02, PS03, PS04 P04, P05 49 IV AECO242 Agricultural Marketing, Trade and Prices C01 PS01, PS02, PS03, PS04 P04, P05 603 PS01, PS02, PS03, PS04 P04, P05 C02 PS01, PS02, PS03, PS04 P04, P05 603 PS01, PS02, PS03, PS04 P04, P05 C02 PS01, PS02, PS03, PS04 P04, P05 603 PS01, PS02, PS03, PS04 P04, P05 C03 PS01, PS02, PS03, PS04<					CO1	PSO1, PSO2, PSO3 PSO4	PO1, PO2, PO3, PO4, PO5
47 IV LSPM201 Poultry management CO2 Po03, PSO4 PO4 PO4 47 IV LSPM201 Poultry management PS03, PSO4 PO4 PO4 PO3 47 IV LSPM201 Poultry management PS03, PSO4 PO4, PO5 PO4, PO5 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PSO2, PS03, PSO4 PO4, PO5 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PSO2, PS03, PSO4 PO4, PO5 602 PS01, PSO2, PS03, PSO4 PO4, PO5 PO4, PO5 PO4 603 PS01, PS02, PS03, PSO4 PO4, PO5 PO4, PO5 PO4, PO5 604 PS01, PS02, PS03, PSO4 PO4, PO5 PO4, PO5 PO4, PO5 PO4, PO5 601 PS01, PS02, PS03, PS04 PO4, PO5 PO1, PO2, PO3, PS03, PS04 PO4, PO5 PO4, PO5 602 PS01, PS02, PS03, PS04 PO4, PO5 PO1, PO2, PO3, PS03, PS04 PO4, PO5 PO3, PS03, PS04 PO4, PO5 PO3, PS03, PS04				Live steek and		PSO1 PSO2	PO1 PO2 PO3
IV Astronom Fourty management PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 49 IV AECO242 Agricultural Marketing, Trade and Prices CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 49 IV AECO242 Agricultural Marketing, Trade and Prices CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 50 LV Agricultural Marketing, Trade CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 50 LV Agricultural Marketing, Trade CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 50 LV Agricultural Marketing, Trade CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5 50 LV Agricultural Marketing, Trade CO1 PS01, PS02, PS03, PS04 PO1, PO2, PO3, PO4, PO5	47	IV	LSPM201	Poultry	CO2	PSO3, PSO4	PO4
48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PSO3, PSO4 PO4, PO5 48 IV LSPM201P Live-stock and Poultry management- Practical CO1 PSO1, PSO2, PSO3, PSO4 PO1, PO2, PO3, PO4, PO5 49 IV AECO242 Agricultural Marketing, Trade and Prices CO1 PSO1, PSO2, PSO3, PSO4 PO1, PO2, PO3, PO4, PO5 50 N Agricultural Marketing, Trade CO1 PSO1, PSO2, PSO3, PSO4 PO1, PO2, PO3, PO4, PO5 50 N Agricultural Marketing, Trade CO1 PSO1, PSO2, PSO3, PSO4 PO1, PO2, PO3, PO4, PO5 50 N Agricultural Marketing, Trade CO1 PSO1, PSO2, PSO3, PSO4 PO4, PO5 50 N Agricultural Marketing, Trade CO1 PSO1, PSO2, PSO3, PSO4 PO4, PO5 50 N Agricultural Marketing, Trade CO1 PSO1, PSO2, PSO3, PSO4 PO4, PO5				management		PSO1, PSO2,	PO1. PO2. PO3.
CO4PSO1, PSO2, PO1, PO2, PO3, PO4, PO548IVLSPM201PLive-stock and Poultry management-PracticalCO1PSO1, PSO2, PO1, PO2, PO3, PSO449IVAECO242Agricultural Marketing, Trade and PricesCO1PSO1, PSO2, PO1, PO2, PO3, PSO450NuAgricultural Marketing, TradeCO1PSO1, PSO2, PO1, PO2, PO3, PSO3, PSO4				managomont	CO3	PSO3, PSO4	PO4, PO5
48IVLSPM201PLive-stock and Poultry management- PracticalCO1PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO549IVAECO242Agricultural Marketing, Trade and PricesCO1PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO549IVAECO242Agricultural Marketing, Trade and PricesCO1PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO550IVAECO242Agricultural Marketing, Trade and PricesCO1PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO550IVAECO242Agricultural Marketing, Trade and PricesCO1PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO550IVAECO242Agricultural Marketing, Trade and PricesCO1PS01, PS02, PS03, PS04PO1, PO2, PO3, PO450IVAgricultural Marketing, TradeCO1PS01, PS02, PS03, PS04PO4, PO550IVAgricultural Marketing, TradeCO1PS01, PS02, PS03, PS04PO4, PO5,50IVAgricultural Marketing, TradeCO1PS01, PS02, PS03, PS04PO4, PO5,					co_{4}	PSO1, PSO2,	PO1, PO2, PO3,
48IVLSPM201PLive-stock and Poultry management- PracticalCO1PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO549IVAECO242Agricultural Marketing, Trade and PricesCO1PS01, PS02, PS03, PS04PO1, PO2, PO3, PO449IVAECO242Agricultural Marketing, Trade and PricesCO1PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO550IVAECO242Agricultural Marketing, Trade and PricesCO1PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO550IVAECO242Agricultural Marketing, Trade and PricesCO1PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO550IVAgricultural Marketing, Trade and PricesCO1PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO550IVAgricultural Marketing, Trade Agricultural Marketing, TradeCO1PS01, PS02, PS03, PS04PO1, PO2, PO3, PO450IVAgricultural Marketing, TradeCO1PS01, PS02, PS03, PS04PO1, PO2, PO3, PO450IVAgricultural Marketing, TradeCO1PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4					004	PSO3, PSO4	PO4, PO5
48IVLSPM201PLive-stock and Poultry management- PracticalPS03, PS04PO4, PO549IVAECO242Agricultural Marketing, Trade and PricesC01PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO549IVAECO242Agricultural Marketing, Trade and PricesC01PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO550IVAECO242Agricultural Marketing, Trade and PricesC01PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO550IVAECO242Agricultural Marketing, TradeC02PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO550IVAECO242Agricultural Marketing, TradeC01PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO550IVAgricultural Marketing, TradeC01PS01, PS02, PS03, PS04PO1, PO2, PO3, PO4, PO550IVAgricultural Marketing, TradeC01PS01, PS02, PS03, PS04PO4, PO550IVAgricultural Marketing, TradeC01PS01, PS02, PS03, PS04PO4, PO5					CO1	PSO1, PSO2,	PO1, PO2, PO3,
48IVLSPM201PPoultry management- PracticalCO2PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO449IVAECO242Agricultural Marketing, Trade and PricesCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO549IVAECO242Agricultural Marketing, Trade and PricesCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO550IVAECO242Agricultural Marketing, Trade and PricesCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO550IVAgricultural Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO550IVAgricultural Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO450IVAgricultural Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO450IVAgricultural Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4				Live-stock and		PSO3, PSO4	PO4, PO5
Management- PracticalPSO3, PSO4PO4PracticalCO3PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO549IVAECO242Agricultural Marketing, Trade and PricesCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO549IVAECO242Agricultural Marketing, Trade and PricesCO1PSO1, PSO2, PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO549IVAECO242Agricultural Marketing, Trade and PricesCO2PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO550IVAgricultural Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO450IVAgricultural Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO450IVAgricultural Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO4, PO550IVAgricultural Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO4, PO5	48	IV	LSPM201P	Poultry	CO2	PSO1, PSO2,	PO1, PO2, PO3,
49IVAECO242Agricultural Marketing, Trade and PricesCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO549IVAECO242Agricultural Marketing, Trade and PricesCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO549IVAECO242Agricultural Marketing, Trade and PricesCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO550IVAECO242Agricultural Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO450IVAgricultural Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO450IVAgricultural Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO450IVAgricultural Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO4, PO5				management-		PSO3, PSO4	PO4
49IVAECO242Agricultural Marketing, Trade and PricesCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO549IVAECO242Agricultural Marketing, Trade and PricesCO2PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO5CO3PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO5CO4PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4For the second				Flactical	CO3	PSO1, PSO2,	PO1, PO2, PO3,
49IVAECO242Agricultural Marketing, Trade and PricesCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO549IVAECO242Agricultural Marketing, Trade and PricesCO2PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO5CO3PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO5CO4PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO450Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO450Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4						PS03, PS04	PO4, PO5
49IVAECO242Agricultural Marketing, Trade and PricesCO2PSO1, PSO2, PSO3PO1, PO2, PO3, PO4, PO549IVAECO242Agricultural Marketing, Trade and PricesCO2PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO449IVAECO242Agricultural Marketing, Trade and PricesCO2PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO450IVAgricultural Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO450IVAgricultural Marketing, TradeCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO5					CO1	PSO1, PSO2,	PO1, PO2, PO3, PO4, PO5
49IVAECO242Agricultural Marketing, Trade and PricesCO2P301, P302, PS03P01, P02, P03, PO449Marketing, Trade and PricesCO3PS01, PS02, PS03, PS04P01, P02, P03, PO4C04PS01, PS02, PS03, PS04P01, P02, P03, PO4C04PS01, PS02, PS03, PS04P01, P02, P03, PO450Marketing, TradeCO1PS01, PS02, PS03, PS04P01, P02, P03, PO450Marketing, TradeCO1PS01, PS02, PS03, PS04P04, P05						PS03, P304	PO4, PO3
Imarketing, frade and Prices PSO1, PSO2, PSO3, PSO4 PO1, PO2, PO3, PO4 CO3 PSO1, PSO2, PSO3, PSO4 PO1, PO2, PO3, PO4 CO4 PSO1, PSO2, PSO3, PSO4 PO1, PO2, PO3, PO4 Agricultural CO1 PSO1, PSO2, PSO3, PSO4 PO1, PO2, PO3, PO4 S0 Marketing, Trade CO1 PSO1, PSO2, PSO3, PSO4 PO1, PO2, PO3, PO4	49	IV	AEC0242	Agricultural	CO2	PSO3	PO1, PO2, PO3, PO4 PO5
CO3PO01, PO02, PO04PS03, PS04PO4CO4PS01, PS02, PO1, PO2, PO3, PS03, PS04PS03, PS04PO4AgriculturalCO1PS01, PS02, PO1, PO2, PO3, PS04PS03, PS04PO4, PO5				and Prices		PSO1 PSO2	PO1 PO2 PO3
CO4PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4AgriculturalCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO550Marketing, TradePSO1, PSO2, PSO3, PSO4PO4, PO5				and Thees	CO3	PSO3, PSO4	PO4
50 Marketing Trade					004	PSO1, PSO2,	PO1, PO2, PO3,
AgriculturalCO1PSO1, PSO2, PSO3, PSO4PO1, PO2, PO3, PO4, PO550Marketing TradePSO4, PSO2, PSO4, PSO3, PSO4, PSO3					CO4	PSO3, PSO4	PO4
Agricultural PSO3, PSO4 PO4, PO5 50 Marketing Trade PSO4, PO2, PO2					CO1	PSO1, PSO2,	PO1, PO2, PO3,
bu Marketing Trade L Door Door Loor Door	50			Agricultural		PSO3, PSO4	PO4, PO5
$\begin{bmatrix} V \\ AFCO242P \\ L D \end{bmatrix}$	50	IV		Marketing, Trade	CO2	PSO1, PSO2,	PO1, PO2, PO3,
PSO3 PO4, PO5				and Prices-		PSO3	PO4, PO5
Practical CO3 PSO1, PSO2, PO1, PO2, PO3,				Practical	CO3	PSO1, PSO2,	PO1, PO2, PO3,
PS03, PS04 P04						PSO3, PSO4	PO4
Renewable Energy CO1 PS01, PS02, P01, P02, P03,				Renewable Energy	CO1	PSU1, PSU2,	PO1, PO2, PO3,
E1 IV AFNO252 and Green RS01 PS02 P01 P02 P02	E A	D 7		and Green		PSO1 PSO2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	51	IV	AENG252	Technology	CO2	PSO3	PO4 PO5
				37		PS01, PS02	PO1, PO2, PO3
CO3 PSO3, PSO4 PO4, PO5					CO3	PSO3, PSO4	PO4, PO5

				CO1	PSO1, PSO2,	PO1, PO2, PO3,
				004	PSO3, PSO4	PO4, PO5
			Renewable Energy	CO1	PSO1, PSO2,	PO1, PO2, PO3,
			and Green	001	PSO3, PSO4	PO4, PO5
52	IV	AENG252P	Technology-	CO_2	PSO1, PSO2,	PO1, PO2, PO3,
			Practical	002	PSO3	PO4, PO5
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
				000	PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Production	0	PSO3, PSO4	PO4, PO5
			technology for	CO2	PSO1, PSO2,	PO1, PO2, PO3,
53	IV	HORT282	Medicinal and	002	PSO3	PO4
			Aromatic plants	CO3	PSO1, PSO2,	PO1, PO2, PO3,
				000	PSO3, PSO4	PO4
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
			Production	CO1	PSO1, PSO2,	PO1, PO2, PO3,
			technology for		PSO3, PSO4	PO4, PO5
54	IV	HORT282P	Medicinal and	CO2	PSO1, PSO2,	PO1, PO2, PO3,
			Aromatic plants-		PSO3	PO4
			Practical	CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Entrepreneurship		PSO3, PSO4	PO4, PO5
	1.7		development and business	CO2	PSO1, PSO2,	PO1, PO2, PO3,
55	IV	AEX 1292			PSU3	P04, P05
				CO3	PSO1, PSO2,	P01, P02, P03,
					PS03, PS04	P04, P05
				CO4	PS01, PS02, PS02, PS03, PS04	P01, P02, P03,
			Entropropourabio		PSU3, PSU4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3, PO4, PO5
50	1.7		business- Practical		PSO1 PSO2	PO1 PO2 PO2
30	IV	AEX1292P	business- i ractical	CO2	PSO3	PO1, PO2, PO3, PO4, PO5
					PSO1 PSO2	PO1 PO2 PO3
				CO3	PSO3 PSO4	PO4 PO5
			Geo Informatics		PSO1_PSO2	PO1 PO2 PO3
			and	CO1	PSO3, PSO4	PO4, PO5
			nanotechnology		PSO1, PSO2,	PO1, PO2, PO3,
57	V	AGRO301		CO2	PSO3	PO4. PO5
				000	PSO1, PSO2,	PO1, PO2, PO3,
				CO3	PSO3, PSO4	PO4, PO5
				001	PSO1, PSO2.	PO1, PO2, PO3.
				CO4	PSO3, PSO4	PO4, PO5
			Geo Informatics	004	PSO1, PSO2,	PO1, PO2, PO3,
				UU1	. ,	. , ,

			and		PSO3, PSO4	PO4, PO5
			nanotechnology -		DOO1 DOO 0	
58	V	AGRO301P	Practical	CO2	PSO1, PSO2,	PO1, PO2, PO3,
					F 303	r 04, r 03
					PSO1. PSO2.	PO1, PO2, PO3,
				CO3	PSO3, PSO4	PO4. PO5
				001	PSO1, PSO2,	PO1, PO2, PO3,
				CO1	PSO3, PSO4	PO4, PO5
			Principles of food	000	PSO1, PSO2,	PO1, PO2, PO3,
59	V	BICM300	science and	002	PSO3, PSO4	PO4, PO5
			nutrition	000	PSO1, PSO2,	PO1, PO2, PO3,
				003	PSO3, PSO4	PO4, PO5
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
				CO4	PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Principles of food	COT	PSO3, PSO4	PO4, PO5
60	V	BICM300P	science and	CO_2	PSO1, PSO2,	PO1, PO2, PO3,
			nutrition- Practical	002	PSO3, PSO4	PO4, PO5
				003	PSO1, PSO2,	PO1, PO2, PO3,
				000	PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
				001	PSO3, PSO4	PO4, PO5
			Crop improvement-	CO2	PSO1, PSO2,	PO1, PO2, PO3,
61	V	GPBR311	1	001	PSO3, PSO4	PO4, PO5
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3	PO4, PO5
				CO4	PSO2, PSO3,	PO1, PO2, PO3,
					PSO4	PO4
			Crop improvement-	CO1	PSO1, PSO2,	PO1, PO2, PO3,
			I -Practical		PSO3, PSO4	PO4, PO5
62	V	GPBR311P		CO2	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PS03, PS04	P04, P05
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
					PS03, PS04	P04, P05
62	V	6640224	Problematic soils	CO2	PS01, PS02,	PO1, PO2, PO3,
03	V	55AC321	and their		PSO3, PSO4	
			management	CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO1 PSO2	
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
					PSO1 PSO2	
			Problematic soils	CO1	PSO3 PSO4	PO4 PO5
1					1 000, 1 004	

			and their	CO_{2}	PSO1, PSO2,	PO1, PO2, PO3,
64	V	SSAC321P	management-	002	PSO3, PSO4	PO4, PO5
			Practical	c_{0}	PSO1, PSO2,	PO1, PO2, PO3,
				003	PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
				001	PSO3, PSO4	PO4, PO5
			Protected	CO_2	PSO1, PSO2,	PO1, PO2, PO3,
65	V	AENG351	cultivation and	002	PSO3, PSO4	PO4, PO5
			postharvest technologies	003	PSO1, PSO2,	PO1, PO2, PO3,
				000	PSO3, PSO4	PO4, PO5
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
				004	PSO3, PSO4	PO4, PO5
66	V	AENG351P	Protected	CO1	PSO1, PSO2,	PO1, PO2, PO3,
			cultivation and post harvest	001	PSO3, PSO4	PO4, PO5
				CO2	PSO1, PSO2,	PO1, PO2, PO3,
			technologies-	002	PSO3, PSO4	PO4, PO5
			Practical	CO3	PSO1, PSO2,	PO1, PO2, PO3,
				000	PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
			Pests of field crops	CO2	PSO1, PSO2,	PO1, PO2, PO3,
67	V	ENTO331	and stored grain		PSO3, PSO4	PO4, PO5
			management	CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4
			Pests of field crops and stored grain management-	CO1 CO2	PSO1, PSO2,	PO1, PO2, PO3,
					PS03, PS04	PO4, PO5
68	V	ENTO331P			PSO1, PSO2,	PO1, PO2, PO3,
					PS03, PS04	P04, P05
			Practical	CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PS03, PS04	P04, P05
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Diseases of field		PS03, PS04	
60	V		and Horticultural	CO2	PSO1, PSO2,	PO1, PO2, PO3,
03	v	FAINSTI	crops and their		PSO1 PSO2	
			management-l	CO3	PSO3 PSO4	PO1, PO2, PO3, PO4, PO5
					PSO1 PSO2	PO1 PO2 PO3
				CO4	PSO3	PO4 PO5
			Diseases of field		PSO1 PSO2	PO1 PO2 PO3
			crops and their	CO1	PSO3 PSO4	PO4 PO5
70	V		management-I-		PSO1 PSO2	PO1 PO2 PO3
10	V		Practical	CO2	PSO3, PSO4	PO4, PO5
					PSO1 PSO2	PO1 PO2 PO3
				CO3		, ,

					PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
				COT	PSO3, PSO4	PO4, PO5
			Integrated pest	CO_2	PSO1, PSO2,	PO1, PO2, PO3,
71	V	PATH372	and disease	002	PSO3, PSO4	PO4, PO5
			management	CO3	PSO1, PSO2,	PO1, PO2, PO3,
				005	PSO3, PSO4	PO4, PO5
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
				001	PSO3, PSO4	PO4, PO5
			Integrated pest	CO1	PSO1, PSO2,	PO1, PO2, PO3,
			and disease		PSO3, PSO4	PO4, PO5
72	V	PATH372P	management-	CO2	PSO1, PSO2,	PO1, PO2, PO3,
			Practical		PSO3, PSO4	PO4, PO5
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
			Dunal	CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Rural		PSO3, PSO4	PO4, PO5, PO6
73	V	RERD303	and	CO2	PSO1, PSO2,	PO1, PO2, PO3,
			anu		PSO3, PSO4	PO4, PO5, PO6
			entrepreneursnip	CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5, PO6
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
					PS03, PS04	PO4, PO5, PO6
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Environmental studies and disaster management		PSO3, PSO4	
7/	V			CO2	PSO3 PSO4	PO1, PO2, PO3,
/ 4	v	/ CPHY361			PSO1 PSO2	
				CO3	PSO3 PSO4	PO4
					PSO1 PSO2	PO1 PO2 PO3
				CO4	O3 PSO1, PSO2, PSO3, PSO4 O1 PSO1, PSO2, PSO3, PSO4 O2 PSO1, PSO2, PSO3, PSO4 O3 PSO1, PSO2, PSO3, PSO4 O4 PSO1, PSO2, PSO3, PSO4 O4 PSO1, PSO2, PSO3, PSO4 O1 PSO1, PSO2, PSO3, PSO4 O2 PSO1, PSO2, PSO3, PSO4 O3 PSO1, PSO2, PSO3, PSO4 O4 PSO1, PSO2, PSO3, PSO4 O3 PSO1, PSO2, PSO3, PSO4 O4 PSO1, PSO2, PSO3, PSO4 O4 PSO1, PSO2, PSO3, PSO4 O4 PSO1, PSO2, PSO3, PSO4 O1 PSO1, PSO2, PSO3, PSO4 O2 PSO1, PSO2, PSO3, PSO4 O3 PSO1, PSO2, PSO3, PSO4 O3 PSO1, PSO2, PSO3, PSO4 O3 PSO1, PSO2, PSO3, PSO4 O4 PSO1, PSO2, PSO3, PSO4 O5 PSO1, PSO2, PSO3, PSO4 O4 PSO1, PSO2, PSO3, PSO4 O5 PSO1, PSO2, PSO3, PSO4	PO4
			Environmental		PSO1, PSO2,	PO1, PO2, PO3,
			studies and	CO1	PSO3. PSO4	PO4. PO5
75	V	CPHY361P	disaster	000	PSO1, PSO2,	PO1, PO2, PO3,
			management-	002	PSO3, PSO4	PO4, PO5
			Practical	000	PSO1, PSO2,	PO1, PO2, PO3,
				003	PSO3, PSO4	PO4
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Rainfed Agriculture	COT	PSO3, PSO4	PO4
			and watershed	CO_2	PSO1, PSO2,	PO1, PO2, PO3,
76	VI	AGRO303	management	002	PSO3, PSO4	PO4
				\mathbf{C}	PSO1, PSO2,	PO1, PO2, PO3,
				CO3	PSO3, PSO4	PO4
				CO4	PSO2, PSO3,	PO1, PO2, PO3,
				007	PSO4	PO4

			Rainfed	CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Agriculture and	001	PSO3, PSO4	PO4
77	VI		watershed	CO2	PSO1, PSO2,	PO1, PO2, PO3,
		AGROSUSF	Practical	002	PSO3, PSO4	PO4
			radioar		PSO1, PSO2,	PO1, PO2, PO3,
				CO3	PSO3, PSO4	PO4
				CO1	PSO2, PSO3,	PO1, PO2, PO3,
				COT	PSO4	PO4
			A contra alterna	CO2	PSO1, PSO2,	PO1, PO2, PO3,
78	VI	SMCA301	Informatics	002	PSO3, PSO4	PO4
			informatics	003	PSO1, PSO2,	PO1, PO2, PO3,
				005	PSO3, PSO4	PO4
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
				004	PSO3, PSO4	PO4
				CO1	PSO2, PSO3,	PO1, PO2, PO3,
			Agriculture		PSO4	PO4
79	VI	SMCA301P	Informatics-	CO2	PSO1, PSO2,	PO1, PO2, PO3,
			Practical	002	PSO3, PSO4	PO4
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4
				CO1	PS01, PSO2,	PO1, PO2, PO3,
			Crop Improvement-II and seed		PSO3, PSO4	PO4
80	30 VI	GPBR312		CO2	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4
		tech	technology	CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3	PO4
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3	PO4
			Crop	CO1	PS01, PSO2,	PO1, PO2, PO3,
			Improvement-II		PSO3, PSO4	PO4
81	VI	GPBR312P	and seed	CO2	PSO1, PSO2,	PO1, PO2, PO3,
			lechnology-		PS03, PS04	P04
			Flactical	CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PS03	PO4 000 000
			Posts of	CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Horticultural crops		PSO3, PSO4	
00		ENTO222	and beneficial	CO2	PSO1, PSO2,	PO1, PO2, PO3,
02	VI	ENIU332	insects		F303, F304	
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
					F303, F304	
			CO4	PSO1, PSO2,	PO1, PO2, PO3,	
			Posts of			
			Lottioultural arous	CO1	PSO1, PSO2,	PO1, PO2, PO3,
1			monicultural crops		F303, F304	PU4

			and beneficial	CO2	PSO1, PSO2,	PO1, PO2, PO3,
83	VI	ENTO332P	insects- Practical	002	PSO3, PSO4	PO4
				<u> </u>	PSO1, PSO2,	PO1, PO2, PO3,
				003	PSO3, PSO4	PO4
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
				COT	PSO3, PSO4	PO4
			Diseases of	000	PSO1, PSO2,	PO1, PO2, PO3,
84	VI	PATH373	horticultural crops	CO2	PSO3, PSO4	PO4
			and their		PSO1, PSO2,	PO1, PO2, PO3,
			management-II	CO3	PSO3, PSO4	PO4
					PSO1, PSO2,	PO1, PO2, PO3,
				CO4	PSO3 PSO4	PO4
			Diseases of		PS01 PS02	PO1 PO2 PO3
			horticultural crops	CO1	PSO3 PSO4	PO4
05	\/I		and their		PSO1 PSO2	PO1 PO2 PO3
00	VI	PAINS/SP	management-II-	CO2	PSO3 PSO4	PO4
			Practical	-	PSO1 PSO2	
			i laotioal	CO3	PSO3 PSO4	PO1, PO2, PO3,
					PSO1 PSO2	
				CO1	PSO3 PSO4	PO4
			Post-harvest		PSO1 PSO2	
96	VI		management of	CO2	PSO1, PSO2,	PO1, PO2, PO3,
00	V I	HUKTSOT	Fruits and		PSO3, PSO4	
			vegetables	CO3	PSO1, PSO2,	PO1, PO2, PO3,
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
			Poet-barvoet		PSO1 PSO2	
			rust-naivest	CO1	PSO3 PSO4	PO4
07	1/1		Fruits and		PSO1 PSO2	
0/	VI	HORT381P	vegetables -	CO2	PSO3 PSO4	PO4
			Practical		PSO1 PSO2	
				CO3	PSO3	PO4
88	VI	ΔFXT391	Communication		PSO1 PSO2	PO1 PO2 PO3
00	•••		and	CO1	PSO3	PO4 PO5
			Personality		PSO1 PSO3	PO1 PO2 PO3
			Development	CO2	PSO4	PO4 PO5 PO6
					PS01 PS02	PO1 PO2 PO3
				CO3	PSO3 PSO4	PO4 PO5 PO6
					PSO1 PSO2	PO1 PO2 PO3
				CO4	PSO3 PSO4	PO4, PO5, PO6
			Communication		PS01, PS02	PO1, PO2, PO3
			and Personality	CO1	PSO3, PSO4	PO4, PO5, PO6
80	\/I		Development		PS01 PS03	PO1 PO2 PO3
03	V I	AEVIJAIL	Practical	CO2	PSO4	PO4, PO5, PO6
					PSO1 PSO2	PO1 PO2 PO3
				CO3		

				CO4	PSO3, PSO4	PO4, PO5, PO6
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
			Farm Management		PSO3, PSO4	PO4, PO5
			and Resource	co^{2}	PSO1, PSO2,	PO1, PO2, PO3,
90	VI	AECO341	economics	002	PSO3, PSO4	PO4, PO5
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
				005	PSO3	PO4
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3	PO4, PO5
			Farm Management	CO1	PSO1, PSO2,	PO1, PO2, PO3,
			and Resource	001	PSO3, PSO4	PO4, PO5
91	VI	AECO341P	economics-	CO2	PSO1, PSO2,	PO1, PO2, PO3,
			Practical	002	PSO3, PSO4	PO4, PO5
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3	PO4
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
			A grievalture	CO2	PSO1, PSO2,	PO1, PO2, PO3,
92	VI	AMBE373	Agriculture	002	PSO3, PSO4	PO4, PO5
			Microbiology	003	PSO1, PSO2,	PO1, PO2, PO3,
				000	PSO3, PSO4	PO4, PO5
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
				001	PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
		AMBE373P	Agriculture Microbiology- Practical		PSO3, PSO4	PO4, PO5
93	VI			CO2	PSO1, PSO2,	PO1, PO2, PO3,
				002	PSO3, PSO4	PO4, PO5
				CO3	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
				~~ .	PSO3	PO4, PO5
			Fundamentals of	CO2	PSO1, PSO2,	PO1, PO2, PO3,
94	VI	BICM302	Plant		PSO3, PSO4,	PO4
			Biotechnology	CO3	PSO1, PSO2,	PO1, PO2, PO3,
				•••	PSO3, PSO4	PO4
				CO4	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4
			Fundamentals of	CO1	PSO1, PSO2,	PO1, PO2, PO3,
95	VI	BICM302P	Plant		PSO3	PO4, PO5
			Biotechnology-	CO2	PSO1, PSO2,	PO1, PO2, PO3,
			Practical	<u> </u>	PSO3, PSO4,	PO4
				0.03	PSO1, PSO2,	PO1, PO2, PO3,
				000	PSO3, PSO4	PO4
				CO1	PSO1, PSO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5

			Rural Agricultural	<u> </u>	PSO1, PSO3,	PO1, PO2, PO3,
		RAWE	work Experience	002	PSO4	PO4, PO5, PO6
96	VII		and Agro-	CO3	PSO1, SO2,	PO1, PO2, PO3,
			Industrial	005	PSO3, PSO4	PO4, PO5, PO6
			Attachment (AIA)	CO4	PSO1, SO2,	PO1, PO2, PO3,
				004	PSO3, PSO4	PO4, PO5, PO6
				CO1	PSO1, SO2,	PO1, PO2, PO3,
				001	PSO3, PSO4	PO4, PO5
			Agriculture	CO2	PSO1, SO2,	PO1, PO2, PO3,
97	VIII	I AELP	Experiential	002	PSO3, PSO4	PO4, PO5
			Learning	CO3	PSO1, SO2,	PO1, PO2, PO3,
			Programme	000	PSO3, PSO4	PO4, PO5
				CO4	PSO1, SO2,	PO1, PO2, PO3,
				001	PSO3, PSO4	PO4, PO5
				CO1	PSO1, SO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
98	I	20SDCVP2	Vermicomposting	CO2	PSO1, SO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
				CO3	PSO1, SO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
				CO1	PSO1, SO2,	PO1, PO2, PO3,
			Zaro Pudgot		PSO3, PSO4	PO4, PO5
99	П	20SDCZF2	Zero buuyei Natural farming	CO2	PSO1, SO2,	PO1, PO2, PO3,
			Natura ranning		PSO3, PSO4	PO4, PO5
				CO3	PSO1, SO2,	PO1, PO2, PO3,
					PSO3, PSO4	PO4, PO5
				CO1	PSO1, SO2,	PO1, PO2, PO3,
					PS03, PS04	PO4, PO5
100	Ш	20SDCBK2	Bee keeping	CO2	PSO1, SO2,	PO1, PO2, PO3,
					PS03, PS04	PO4, PO5
				CO3	PSO1, SO2,	PO1, PO2, PO3,
					PS03, PS04	P04, P05
				CO1	PSO1, SO2,	P01, P02, P03,
			Mushroom		PS03, PS04	P04, P05
101	IV	20SDCMC2	cultivation	CO2	PS01, S02,	PO1, PO2, PO3,
					PS03, PS04	PO4, PO3
				CO3	PSO1, SO2,	PO1, PO2, PO3,
102	1) /		Environmontol		PS03, PS04	PO4, PO3
102	IV	ZULGCEEZ	environmental	CO1	PSO1, 302,	PO1, PO2, PO3, PO4, PO5
			education		PSO3, PSO4	
				CO2	PSU1, 302,	PO1, PO2, PO3,
					PSO1 202	
				CO3	PSO1, 302,	PO1, PO2, PO3,
102	1\/		Entreprepourship			
100	IV		Development	CO1	PSO4	PO4, PO5

	CO2	PSO1, SO2,	PO1, PO2, PO3,
	002	PSO3, PSO4	PO4, PO5
	CO3	PSO1, SO2,	PO1, PO2, PO3,
	003	PSO3, PSO4	PO4, PO5

Course Title	Course Code	PSO1	PSO2	PSO3	PSO4
Fundamentals of agronomy	AGRO101	V	v	~	~
Fundamentals of agronomy-Practical	AGRO101P	v	v	~	~
Fundamentals of Plant Biochemistry and Soil Science	BICM101	v	v	~	~
Fundamentals of Plant Biochemistry and Soil Science-Practical	BICM101P	~	~	~	~
Fundamentals of Agricultural Economics	AECO141	v	v	~	~
Fundamentals of Horticulture	HORT181	v	v	~	~
Fundamentals of Horticulture- Practical	HORT181P	~	~	~	~
Rural Sociology, Educational Psychology and Human Values	AEXT191	~	~	~	~
Introductory Agro Meteorology and Climate Change	AGRO102	v	~	~	~
Introductory Agro Meteorology and Climate Change- Practical	AGRO102P	V	~	~	v
Fundamentals of Genetics	GPBR111	~	~	~	~
Fundamentals of Genetics- Practical	GPBR111P	~	~	~	~

Fundamentals of Entomology	ENTO131	~	~	~	~
Fundamentals of Entomology 1 -Practical	ENTO131P	~	~	~	~
Soil and Water Conservation Engineering	AENG151	~	>	~	~
Soil and Water Conservation Engineering -Practical	AENG151P	~	~	~	~
Fundamentals of Plant Pathology -1	PATH171	~	~	~	~
Fundamentals of Plant Pathology -1- Practical	PATH171P	~	~	~	~
Crop Production -1	AGRO201	~	~	~	~
Crop Production -1 -Practical	AGRO201P	~	~	~	~
Fundamentals of Plant breeding	GPBR211	~	~	~	~
Fundamentals of Plant breeding -Practical	GPBR211P	~	~	~	~
Economics for Rural development	AERD201	~	~	~	~
Fundamentals of Entomology -1	ENTO231	~	~	~	~
Fundamentals of Entomology -1 -Practical	ENTO231P	~	~	~	~
Agricultural Finance and Co- Operation	AECO241	~	~	~	~
Agricultural Finance and Co- Operation -Practical	AECO241P	~	~	~	~
Farm machinery and Power	AENG251	~	✓	~	~
Farm machinery and Power- Practical	AENG251P	~	~	~	~
Eco-Physiology	CPHY261	~	v	v	~
Eco-Physiology -Practical	CPHY261P	~	~	~	~
Fundamentals of Plant Pathology	PATH271	~	~	~	~
Fundamentals of Plant Pathology -Practical	PATH 271P	~	~	~	~
Production Technology for Vegetables and Spices	HORT281	~	~	~	~
Production Technology for Vegetables and Spices- Practical	HORT281P	~	~	~	~

Fundamentals of Agricultural Extension	AEXT291	~	~	~	~
Fundamentals of Agricultural Extension- Practical	AEXT291P	~	~	~	~
Crop Production Technology - II	AGR0202	~	~	~	~
Crop Production Technology - II -Practical	AGR0202P	>	~	~	~
Irrigation water management, Farming systems and sustainable agriculture	AGRO203	~	v	<i>v</i>	~
Irrigation water management, Farming systems and sustainable agriculture -Practical	AGRO203P	~	r	~	~
Manures, Fertilizers and soil fertility Management	SSAC221	~	v	~	~
Manures, Fertilizers and soil fertility Management -Practical	SSAC221P	~	V	~	~
Statistical Methods	SMCA201	~	v	~	~
Statistical Methods- Practical	SMCA201P	~	~	~	~
Rural Development Planning & management	PMRD202	>	~	~	~
Livestock and Poultry Management	LSPM201	~	~	~	~
Livestock and Poultry Management- practical	LSPM201P	~	~	~	~
Agricultural Marketing, Trade, Prices	AECO242	~	~	~	~
Agricultural Marketing, Trade, Prices - Practical	AECO242P	~	v	~	~
Renewable Energy and Green Technology	AENG252	~	v	~	~
Renewable Energy and Green Technology - Practical	AENG252P	V	V	v	~
Production technology of Ornamental crops, medicinal, Aromatic plants	HORT282	~	v	~	~
Production technology of Ornamental crops, medicinal, Aromatic plants -Practical	HORT282P	~	V	<i>v</i>	~

Entrepreneurship	AEXT292	~	~	~	~
communication					
Entrepreneurship	AEXT292P				
development and business		V	V	V	v
communication -Practical					
Geo informatics and	AGRO301	~	v	~	~
Nanotechnology for precision			-		-
rarming and practical crop					
Geo informatics and	AGRO301P				
Nanotechnology for precision	Achecoun	\checkmark	\checkmark	~	~
farming and practical crop					
production -Practical					
Principles of food science	BICM300	./			
and nutrition			•	•	•
Principles of food science	BICM300P				
and nutrition -Practical		\checkmark	~	~	~
	GPBR311				
Intellectual Property Rights	GIBIGIT	~	~	~	~
Crop Improvement-I and	GPBR311P	✓	~	~	~
Intellectual Property					
Rights-Practical	6640221				
Problematic solis and their	55AC321	✓	v	v	~
Problematic soils and their	SSAC321P	~	v	~	~
management -Practical			-		-
Protected cultivation and	AENG351				
post- harvest technologies		V	V	V	v
Protected cultivation and	AENG351P				
post- harvest technologies-		\checkmark	\checkmark	~	~
Practical					
Pests of field crops	ENTO331				
and stored grain and		V	V	V	v
their management					
Pests of field crops and stored	ENTO331P	v	\checkmark	~	~
grain and their		·	•	•	•
management -Practical	DATUOZA				
Diseases of field and	PATH3/1	v	v	v	~
horticultural crops and their					
management-I					
Diseases of field and	PATH371P	✓	~	~	 ✓
norticultural crops and their		-			
management-i- Practical					
Principles of	PΔTH 372				
Integrated pest and		~	~	 ✓ 	~
disease management					
Principles of Integrated pest	PATH372P				
and disease management -		V	V	v	~

Practical					
Rural	RFRD303				
Industrialization and		~	\checkmark	~	~
entrepreneurship					
Environmental studies and	CPHY361				
disaster management		~	V	~	~
Environmental studies and					
disaster management -	CENTSOIE	v	\checkmark	✓	✓
Practical					
Rainfed agriculture watershed	AGRO303				
management and principles of		 ✓ 	\checkmark	~	~
organic farming					
Rainfed agriculture, watershed	AGRO303P				
management and principles of		~	V	V	V
organic farming -Practical					
Agriculture Informatics	SMCA301				
			•	•	•
Agriculture Informatics-	SMCA301P				
Practical		~	\checkmark	~	~
Crop improvement-II and	GPBR312	~	\checkmark	v	~
principles of seed technology					
Crop improvement-II and	GPBR312P				
principles of seed technology-		V	V	V	V
Practical					
Pests of Horticultural crops	ENTO332	~	~	~	~
and their management and		•	•	•	•
beneficial insects					
Pests of Horticultural crops	ENTO332P	v	v	v	~
and their management and					
beneficial insects -					
Practical Diseases of field and					
Diseases of field and	PAIN3/3	v	✓	✓	~
norticultural crops and their					
management-II					
Diseases of field and	РАТН373Р	 ✓ 	~	✓	~
horticultural crops and their		-			
management-II -Practical					
Post-harvest management and	HORT381	~	~	~	~
value addition of fruits and			-	•	-
vegetables					
Post-harvest management and	HORT381P				
value addition of fruits and			v	v	•
vegetables -Practical					
Communication skills and	AEXT391	~	~	~	~
personality development		-	-	•	-
Communication skills and	AEXT391P		4		4
personality development -			~	~	~
Practical					

Farm management, production and resource economics	AECO341	~	~	~	~
Farm management, production and resource economics -Practical	AECO341P	~	~	~	~
Agriculture Microbiology	AMBE373	~	~	~	~
Agriculture Microbiology- Practical	AMBE373P	~	~	~	~
Fundamentals of plant biotechnology	BICM302	~	~	~	~
Fundamentals of plant biotechnology - Practical	BICM302P	~	~	~	~
Rural Agricultural work Experience and Agro-Industrial Attachment (AIA)	RAWE	~	~	~	~
Agriculture Experiential Learning Programme	AELP	~	~	~	~
Vermicomposting	20SDCVP2	~	~	~	~
Zero Budget Natural farming	20SDCZF2	~	~	~	~
Bee keeping	20SDCBK2	~	~	~	~
Mushroom cultivation	20SDCMC2	~	~	~	~
Environmental education	20LSCEE2	~	~	~	~
Entrepreneurship development	20LSCED2	~	~	~	~

Mapping of Courses with POs

Course	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
AGRO101	~	~	~	v	v	~		
AGRO101P	~	~	~	v	v			
BICM101	~	~	~	v	v			
BICM101P	~	~	~	v	v			
AECO141	~	~	~	v	 ✓ 			
HORT181	~	~	~	v	 ✓ 			
HORT181P	>	v	v	v	v			
AEXT191	>	~	~	v	~			
AGRO102	>	~	~	v	~			
AGRO102P	~	~	~	v	v			
GPBR111	~	~	~	v	v	~		
GPBR111P	~	~	~	v	 ✓ 	~		
ENTO131	~	~	~	v	 ✓ 	~		
ENTO131P	>	v	v	v	v	 ✓ 		
AENG151	>	~	~	v	~	~		
AENG151P	>	~	~	v	~	~		
PATH171	>	~	~	v	~	~		
PATH171P	>	~	~	v	 ✓ 	~		
AGRO201	~	~	~	v	 ✓ 	~		
AGRO201P	~	~	~	v	 ✓ 	~		
GPBR211	~	~	~	v	v	~		
GPBR211P	~	~	~	v	v	~		
AERD201	~	~	~	v	v	~		
ENTO231	~	~	~	v	v	~		
ENTO231P	~	~	~	v	v	~		
AECO241	~	~	~	v	~	~		
AECO241P	>	v	~	v	~	~		
AENG251	>	~	~	v	~			
AENG251P	>	~	~	v	~			
CPHY261	>	~	~	v	~			
CPHY261P	>	~	~	v	~			
PATH271	~	v	v	v	v			
PATH 271P	~	v	v	v	v			
HORT281	~	~	v	v	v			
HORT281P	~	v	v	v	v			
AEXT291	~	~	~	 ✓ 	 ✓ 			
AEXT291P	~	~	~	 ✓ 	 ✓ 			
AGR0202	~	v	v	 ✓ 	 ✓ 			
AGR0202P	~	 ✓ 	 ✓ 	 ✓ 	 ✓ 			
AGRO203	~	 ✓ 	 ✓ 	v	~			
AGRO203P	~	 ✓ 	 ✓ 	 ✓ 	 ✓ 			
SSAC221	~	~	v	v	 ✓ 			

SSAC221P	~	~	~	~	~		
SMCA201	~	~	~	~	~		
SMCA201P	~	~	~	~	~		
PMRD202	~	~	~	~	~		
LSPM201	~	~	~	~	~		
LSPM201P	~	~	~	~	~		
AECO242	~	~	~	 ✓ 	~		
AECO242P	~	~	~	 ✓ 	~		
AENG252	~	~	~	v	~		
AENG252P	~	~	~	v	~		
HORT282	~	~	~	~	~		
HORT282P	~	~	~	~	~		
AEXT292	>	~	>	~	~		
AEXT292P	>	>	>	~	>		
AGRO301	~	~	~	v	~		
AGRO301P	~	~	~	~	~		
BICM300	>	>	>	~	>		
BICM300P	~	~	~	~	~		
GPBR311	~	~	~	v	~		
GPBR311P	~	~	~	~	~		
SSAC321	>	~	>	~	~		
SSAC321P	>	~	>	~	~		
AENG351	~	~	~	~	~		
AENG351P	~	~	~	~	~		
ENTO331	~	~	~	v	~		
ENTO331P	~	~	~	v	~		
PATH371	~	~	~	v	~		
PATH371P	~	~	~	~	~		
PATH372	~	~	~	~	~		
PATH372P	>	>	>	~	>		
RERD303	~	~	~	v	~	~	
CPHY361	~	~	~	~	~		
CPHY361P	>	~	>	~	~		
AGRO303	~	~	~	v			
AGRO303P	~	~	~	v			
SMCA301	~	~	~	v			
SMCA301P	>	>	>	~			
GPBR312	~	~	~	v	~		
GPBR312P	~	~	~	v	~		
ENTO332	~	~	~	v			
ENTO332P	~	~	~	v			
PATH373	~	~	~	v			
PATH373P	~	~	~	v			
HORT381	~	~	~	v			
HORT381P	~	~	~	v			
AEXT391	~	~	~	v	~	~	

AEXT391P	~	~	 ✓ 	~	 ✓ 	v	
AECO341	~	~	v	v	~		
AECO341P	~	~	~	v	~		
AMBE373	~	~	 ✓ 	v	v		
AMBE373P	~	~	~	v	v		
BICM302	~	~	~	v	 ✓ 		
BICM302P	~	~	~	v	 ✓ 		
RAWE	~	~	~	v	 ✓ 	v	
AELP	~	~	~	v	 ✓ 		
20SDCVP2	~	~	~	v	 ✓ 		
20SDCZF2	~	~	~	~	~		
20SDCBK2	~	~	~	v	v		
20SDCMC2	~	~	~	~	~		
20LSCEE2	~	~	 ✓ 	~	 ✓ 		
20LSCED2	~	~	~	~	~		