



Where talent meets opportunity

SRI SATYA SAI UNIVERSITY OF TECHNOLOGY AND MEDICAL SCIENCES

**VISION, MISSION, PROGRAMME
OUTCOMES, PROGRAMME SPECIFIC
OUTCOMES & COURSE OUTCOMES**

www.sssutms.co.in

Opp.Oilfed Plant, Bhopal-Indore Road,Sehore (M.P), Pin - 466001



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Where talent meets opportunity

SRI SATYA SAI UNIVERSITY OF TECHNOLOGY AND MEDICAL SCIENCES

**Department of Agriculture
2017-18 TO 2021-22**


Dean
School of Agriculture
SSUTMS, Sehore


Registrar
Sri Satya Sai University of Technology
& Medical Sciences Sehore

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PROGRAMME OUTCOMES (POs)

Students graduating with the B.Sc. (hons) Agriculture Science degree should be able to acquire

- PO-1:** Understand the impact of the professional agricultural solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. To demonstrate the ability to communicate effectively both orally and in writing.
- PO-2:** To demonstrate research based knowledge of the legal and ethical environment impacting agriculture organizations and exhibit an understanding and appreciation of the ethical implications of decisions.
- PO-3:** To demonstrate an understanding of and appreciation for the importance of the impact of globalization and diversity in modern agriculture organizations. Understanding of globalization, and NGO working.
- PO-4:** To demonstrate an ability to engage in critical thinking by analyzing situations and constructing and selecting viable solutions to solve problems. Ability to work effectively with others. To develops analytical ability and team work spirit.
- PO-5:** To understand and analyze the current events and issues that are occurring in agriculture and how they affect futuristic agriculture.
- PO-6:** Able to recognize and examine the relationships between inputs and outputs in their agricultural field to make effective and profitable decisions. To understand mechanics of agripreneurship.
- PO-7:** Understand how all aspects of agriculture combine and are used by scientists, marketers, producers and understand how employer characteristics and decision-making at various levels enhance the success of an agricultural enterprise. To understand components of agri business and economics of market.
- PO-8:** Able to demonstrate critical thinking and problem solving skills as they apply to a variety of animal and or plant production systems .To understand problem solving skills in crop production and animal husbandry.
- PO-19:** Knowledge of Weather codes and Symbols, Reading and Recording of weather and climatic data. To get trained for climatologically records, soil data and soil nutrition.
- PO-10:** To develop critical and self-critical opinion and approach aiming at solving the most important practical problems in the field of plant protection by applying gained competencies
- PO-11:** Demonstrate knowledge and understanding in horticulture section: The breadth and depth of the profession of horticulture. Basic horticulture biology: taxonomy, anatomy, morphology, and physiology. The characteristics of the environment and their influence on plant growth and development. Current applications of horticultural principles and practices: propagation, pest management, production, maintenance, and business practices. Comprehensive knowledge of horticultural production.
- PO-12:** This programme will also help students to enhance their employability for jobs in different sectors.


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PROGRAMME SPECIFIC OUTCOMES (PSOs)

- PSO 1:** Have a strong base in the core area of agriculture both theory and practical and create opportunities for solving agricultural problems
- PSO 2:** Communicate the application of training programme for improving agriculture and have sound knowledge of latest technology for quality output
- PSO 3:** Understand the impact agricultural solutions in social context and combine all aspects of agriculture in decision making at various level. To understand components of agriculture business and economics.


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FUNDAMENTALS OF HORTICULTURE

Course Code : AG 101

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

CO	DESCRIPTION
CO1	Demonstrate an understanding of the composition, fertility and biology of soil and how they relate to good plant growth
CO2	Identify and prescribe sustainable options in horticulture which benefit the environment while maintaining productivity and economic viability
CO3	Apply horticultural skills and knowledge to operate various business entities found in the horticultural industry.
CO4	Identify and practice safe use of tools, equipment and supplies used in horticulture careers.
CO5	Propagate, grow, and maintain plants in horticulture production systems.

CO-PO-PSO Mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	3	3	2	3	1	1	1	3	3	3	1
CO2	3	2	3	2	3	1	2	3	2	3	1	2	2	3	1
CO3	3	2	3	1	3	2	2	3	3	2	1	3	3	3	1
CO4	3	2	3	2	3	3	3	3	2	3	3	3	3	3	1
CO5	3	1	1	1	3	2	3	3	3	3	2	3	2	2	2


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Fundamentals of Plant Biochemistry and plant Biotechnology

Course Code: AG 102

Course Outcome(CO):

After completion of the course, a student will be able to

CO	DESCRIPTION
CO1	Able to know what are the basic technologies involved in plant biochemistry and biotechnology as well as how these technologies are used for the production of useful products
CO2	Students can figure out the measures to prevent the various stresses of any crop, how to identify resistant sources
CO3	know how to isolate DNA from the leaf and how to identify biochemical given in a sample.
CO4	Know the role various role of biomolecules such as carbohydrate, protein, lipid etc in life
CO5	They can use their skills for the identification of resistant sources for various stresses

CO-PO-PSO mapping:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	1	1		1		3				3	3	3	3
CO2	3	3	3	2		3		3				2	3	3	3
CO3	3	2	3	3		3		3				3	3	3	3
CO4	3	2	1	1		3		3				3	2	2	1
CO5	3	3	3	3		2		3				3	3	3	1


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Fundamentals of Soil Science

Course Code: A G103

Course Outcome(CO):

After completion of the course, a student will be able to

CO	DESCRIPTION
CO1	To gain basic knowledge of soil fertility and productivity
CO2	To study Importance or Significance of soil macronutrient and micronutrients
CO3	To Assess and develop importance of soil physical and chemical properties
CO4	To study about soil pollution and mitigation process
CO5	To study about soil pollution and mitigation process

CO-PO-PSO MAPPING:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	1	1	1	1	1	3	1	1	1	3	1	2	1
CO2	3	3	3	2	1	3	1	3	1	1		2	1	2	1
CO3	3	2	3	3	1	3	1	3	1	1	1	3	1	2	1
CO4	3	2	1	1	1	3	1	3	1	1	1	3	2	2	1
CO5	3	3	3	3	1	2	1	3	1	1	1	3	2	2	1


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INTRODUCTION TO FORESTRY

COURSE CODE: AG104

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

CO	DESCRIPTION
CO1	Knowledge of role trees in all terrestrial ecosystems and provide a range of products and services rural and urban people
CO2	The benefits that trees provide are best sustained by integrating trees into agriculturally productivelandscapes.
CO3	To study the sustainable utilization of land through agroforestry.
CO4	Study of economically importance of tree and various purposes for growing of tree.
CO5	To study scientific management of trees such as creation, conservation and utilization of their resources.

CO-PO-PSO MAPPING:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	3	3		3	1	2	1	3	3	3	1
CO2	3	2	3	2	3	1		3	1	2	3	2	3	2	1
CO3	3	2	3	1	3	2		3	3	3	1	3	3	2	1
CO4	3	2	3	2	3	3		3	2	2	2	3	3	2	1
CO5	3	1	1	1	3	2		3	3	3		3	3	2	1


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Comprehension & Communication Skills in English

COURSE CODE: AG105

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

CO	DESCRIPTION
CO1	Knowledge of professional, cultural and cross-cultural communication
CO2	Basic knowledge of structural and functional grammar; meaning and process of communication, verbal and nonverbal communication
CO3	Reading and comprehension of general and technical articles, precise writing, summarizing, abstracting
CO4	Basic concepts of group discussion, organizing seminars and conferences
CO5	Personal organization, prioritizing and balancing; Cosmopolitan culture, Group discussions

CO-PO-PSO MAPPING:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	1	1	1	2	3	3	1	3	3	2	2	1
CO2	1	2	1	1	1	1	2	3	2	2	3	1	3	3	1
CO3	1	2	1	1	1	1	2	3	1	2	3	3	3	2	1
CO4	1	2	1	1	1	1	2	3	2	1	3	3	3	1	1
CO5	1	2	1	1	1	1	2	2	3	1		3	2	2	1


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FUNDAMENTALS OF AGRONOMY

COURSE CODE: AG106

COURSE OUTCOMES (CO):*After completion of the course, a student will be able to*

CO	DESCRIPTION
CO1	Exploits the knowledge developed by basic and allied sciences for higher crop production.
CO2	Aims at obtaining maximum production at minimum cost.
CO3	The advancement of knowledge and better understanding of plant and environment, agricultural practices are modified or new practices developed for high productivity.
CO4	To study the application of basic agronomic methodology for healthy environment.
CO5	Study for optimum growth, management and improvement of field crop with the objective of increasing food, fiber, oil seed and other agriculture products.

CO-PO-PSO MAPPING:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	3	3	1	3	1	1	1	3	3	3	1
CO2	3	2	3	2	3	1	1	3	2	3	1	2	1	2	1
CO3	3	2	3	1	3	2	1	3	2	3	3	3	3	3	2
CO4	3	2	3	2	3	3	1	3	1	2	3	3	3	3	2
CO5	3	1	1	1	3	2	1	3	2	3	1	3	3	3	2


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Introductory biology

COURSE CODE: AG107(A)

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Origin of living world- Basic concepts of diversity, characteristics
CO2	Evolution and eugenics- Basic concepts and knowledge
CO3	Significance of flowering plants, seed and seed germination
CO4	Basic concepts of Binomial nomenclature
CO5	Basic concepts of classification Cell and cell division

CO-PO-PSO MAPPING:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	2	3	2	2	2	2	3	1	2	2	2	1
CO2	3	1	3	3	3	2	2	3	2	3	2	3	2	2	1
CO3	3	2	3	3	3	1	1	3	2	3	2	3	3	2	1
CO4	3	1	3	3	3	1	2	2	1	1	2	2	2	2	1
CO5	3	2	3	3	3	1	2	3	1	2	2	2	2	2	1


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Elementary Mathematics

CODE: AG107(B)

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

CO	DESCRIPTION
CO1	Students will have basic knowledge of distance formula, section formula (internal and external division)
CO2	Knowledge of Parallel lines, Perpendicular lines, Angle of bisectors between two lines, Area of triangle and quadrilateral
CO3	Basics of Circle: Equation of circle whose centre and radius is known, General equation of a circle, Equation of circle passing through three given points
CO4	Differentiation of x^n , e^x , $\sin x$ & $\cos x$ from first principle, Derivatives of sum, difference, product and quotient of two functions
CO5	Logarithmic differentiation (Simple problem based on it)

CO-PO-PSO MAPPING:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	1	1	1	1	2	1	1	2	2	2	1
CO2	2	3	2	2	1	1	1	1	2	3	1	2	2	2	1
CO3	2	2	2	3	1	1	1	1	2	3	1	2	2	2	1
CO4	2	2	3	3	1	1	1	1	2	3	1	2	2	2	1
CO5	2	2	3	3	1	1	1	1	2	3	1	2	2	2	1


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Agricultural Heritage
COURSE CODE:AG108

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

CO	DESCRIPTION
CO1	Agriculture and heritage-basic knowledge and concepts
CO2	Basics and concepts of indigenous traditional knowledge and status of farmers
CO3	Importance of agriculture and agricultural resources available in India
CO4	classifications of crop and its significance to farmers
CO5	Indian agriculture Current scenario and future prospects

CO-PO-PSO MAPPING:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	1	3	2	3	2	2	2	3	2	2	3	3	1
CO2	3	1	1	3	2	3	2	3	2	3	2	1	3	3	2
CO3	3	2	1	3	2	3	1	3	2	3	1	1	3	3	2
CO4	3	1	1	3	2	3	2	2	1	1	1	2	2	2	1
CO5	3	2	1	3	1	3	2	3	1	2	2	2	3	2	2


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Rural Sociology & Educational Psychology
COURSE CODE: AG109

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students will have knowledge of Sociology and Rural sociology
CO2	Knowledge of Functional literacy, non-formal education of rural youth
CO3	Knowledge of Functional literacy, non-formal education of rural youth
CO4	Students will have knowledge of Educational psychology: Meaning & its importance in agriculture extension
CO5	Basic knowledge of Personality, Learning, Motivation, Theories of Motivation

CO-PO-PSO MAPPING:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	2	1	1	3	3	3	3	3	3	3	3	1
CO2	1	1	1	2	1	1	3	3	3	2	3	3	2	2	2
CO3	1	1	1	2	1	1	3	3	3	2	3	3	2	2	1
CO4	1	1	1	2	1	1	3	3	3	2	3	3	2	2	1
CO5	1	1	1	2	1	1	3	3	3	2	3	3	2	2	1


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Human Value and Ethics in Agriculture

Course Code: AG110

Course Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Understand value and ethics of life
CO2	Acquaint principals and philosophy in life
CO3	Understand importance of motivation
CO4	Understand mission and vision of life
CO5	Understand Case on ethical lives and spirituality

CO-PO-PSO MAPPING:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	1	1	1	1		3	1	2	3	1	1	1
CO2	1	2	1	1	1	1	1		3	1	1	2	1	1	2
CO3	1	2	1	1	1	1	1	1	3	1	1	3	1	2	1
CO4	1	2	1	1	1	1	1	1	3	1	1	2	1	2	1
CO5	1	2	1	1	1	1	1	1	3	1	1	3	1	1	1


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COURSE: NSS/

COURSE CODE: AG114 NCC/Physical Education and Yoga practices

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students will have knowledge of national problems
CO2	In depth knowledge of philosophy of NSS, fundamentals rights, directive principles of state policy
CO3	Knowledge of Functional literacy, non-formal education of rural youth
CO4	Students will have knowledge of Socio-economic structure of Indian society, population problems
CO5	Basic knowledge of environment enrichment and conservation, health, family welfare and nutrition

CO-PO-PSO MAPPING:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	2	1	1	3	3	3	3	3	3	1	1	1
CO2	1	1	1	2	1	1	3	3	3	2	3	3	1	1	2
CO3	1	1	1	2	1	1	3	3	3	2	3	3	1	2	1
CO4	1	1	1	2	1	1	3	3	3	2	3	3	1	2	1
CO5	1	1	1	2	1	1	3	3	3	2	3	3	1	1	1


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SEMESTER-II

Fundamentals of Genetics Paper

Code: AG 201

Course Outcome:*After completion of the course, a student will be able to*

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students learned about the definition, history and concept of genetics
CO2	Know the experiments performed by Mendel and also the Mendel's Law
CO3	Students familiarize with the different cell organelles, structure and functions.
CO4	Gained the knowledge of the various gene interactions, cytoplasmic genes and the genetic variance
CO5	Studied the mechanism of replication, transcription and translation in both prokaryotes and eukaryotes.

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	1	1	1		1		2		3	3	3	1
CO2	2	2	2	1	1	1		1		2		3	2	2	1
CO3	2	1	1	1	1	1		1		2		3	3	2	1
CO4	2	1	1	1	1	1		2		3		3	3	2	1
CO5	2		1	1	1	1		1		2		3	3	3	1


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SEMESTER-II

Syllabus: Agricultural Microbiology

Course Code: AG 202

Course Outcome:

After completion of course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Student is able to know regarding microbial world, cell structure, Prokaryotic and eukaryotic microbes
CO2	Learn about Bacterial genetics, Role of microbes in soil fertility and crop production
CO3	Students are able to know about sowing time of different varieties according to temperature
CO4	Regarding atmospheric biological nitrogen fixation, Rhizosphere and phyllosphere.
CO5	By the end of course students will be able to understand the role of microbes in human welfare.

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	2	2	1	3	-			3	3	3	3	1
CO2	3	3	3	2	2		2	-			2	3	2	2	1
CO3	3	3	2	3	2		2	-	1		3	3	3	2	1
CO4	3	3	3	3		2	3				3	3	3	2	1
CO5	3	3	3	3	1	3	3	1			3	3	3	3	1


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SEMESTER-II**Syllabus: Soil and Water Conservation Engineering****Course Code: AG 203****Course Outcome:***After completion of the course, a student will be able to*

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students learned about the meaning, definition and concept of soil and water conservation.
CO2	Learned about the meaning, definition and agents of soil erosion
CO3	Students learned about the soil estimation and soil loss measurement techniques.
CO4	Students knew about the concept of contouring.
CO5	Familiarized about the water harvesting and its techniques

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	2	2	1	1		3		2		3	3	3	1
CO2	3	1	2	2	1	1		3		3		3	3	2	1
CO3	3	1	2	2	1	1		3		2		3	3	2	1
CO4	3	1	2	1	1	1		3		3		3	3	2	1
CO5	3	1	2	2	1	1		3		2		3	3	3	1


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SEMESTER-II**Syllabus: Fundamentals of Crop Physiology****Course Code: AG 204****Course Outcome:***After completion of the course, a student will be able to*

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Able to know what are the basic technologies involved in physiology and how they are used in crop improvement.
CO2	Can use the basic knowledge regarding plant physiology in crop improvement.
CO3	impart knowledge to the students on different plant metabolic processes and their functions in plants
CO4	By the end of course the students will be able to study the growth and development of plants
CO5	Study of nutrients and plant growth regulator and their applications in agriculture

CO-PO-PSO MAPPING:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	3		3				3	3	3	1
CO2	3	3	3	2	1	1		3				2	3	3	2
CO3	3	2	1	1	2	2		3				3	3	3	1
CO4	3	2	2	2	3	3		3				2	3	2	1
CO5	3	1	1	2	1	2		3				2	3	3	1


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SEMESTER-II

Syllabus: Fundamentals of Agricultural Economics

Course Code: AG 205

Course Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students will learn scope and nature of economics
CO2	Students will learn basic concepts of desire, demand and supply
CO3	Students will understand consumer's equilibrium, price determination and how to run industry
CO4	They will understand how money barter system, inflation, deflation
CO5	They will understand role of banking in modern economy and elements of economics

CO-PO-PSO MAPPING:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	3		3				3	3	3	1
CO2	3	3	3	2	1	1		3				2	3	3	2
CO3	3	2	1	1	2	2		3				3	3	3	1
CO4	3	2	2	2	3	3		3				2	3	2	1
CO5	3	1	1	1	1	2		3				2	3	3	1


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Syllabus: Fundamental of Plant Pathology

Course Code: AG 206

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Knowledge and anatomy of computer including Operating Systems and Applications of MS Office .
CO2	Knowledge of World Wide Web (www) and internet their Concepts and components
CO3	Agriculture Expert System, Soil Information Systems for supporting Farm decisions.
CO4	Preparation of contingent crop-planning using IT tools. Smartphone Apps in Agriculture for farm advises, market price, postharvest management.
CO5	Use of Information and Communication Technology in Agriculture

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	2	1	2	1	3	2	2	3	3	2	3	3	2
CO2	2	3	1	2	1	1	3	2	2	2	3	2	3	3	2
CO3	3	3	1	1	1	1	3	2	1	3	3	2	3	3	2
CO4	3	3	2	1	1	1	3	1	1	2	3	2	3	2	2
CO5	2	3	2	1	1	1	3	2	2	3	3	2	3	3	2


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Syllabus: Fundamentals of Entomology
 Course Code: AG 207

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Know about the concept of systematic, history and classification of insects
CO2	External morphology of insects
CO3	Basics of all the body system (digestive, circulatory, excretory, respiratory, nervous, secretory (Endocrine) and reproductive system of insects)
CO4	Orders of class insects and classification upto family
CO5	Knowledge of biology and characteristics of insect pests of different orders

CO-PO-PSO mapping

PO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	2	2	3	2	3	1	2	1	3	3	3	1
CO2	3	2	2	2	1	3	2	3	1	2	1	3	3	3	1
CO3	2	1	3	1	1	3	1	2	1	2	1	2	3	3	1
CO4	2	1	3	1	1	3	1	2	1	1	1	3	3	2	1
CO5	1	1	2	1	1	3	1	2	1	1	1	3	3	3	1


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Syllabus: Fundamentals of Agricultural Extension Education

Course Code: AG 208

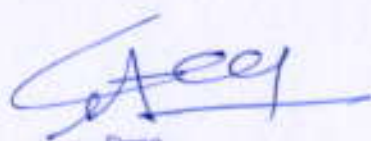
Course Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students gain knowledge regarding the K.V.K, ATMA, SAUs and ATIC.
CO2	They understand the rural constraints and salutations.
CO3	They gain knowledge regarding methods of Demonstrations.
CO4	They gain knowledge about all the systems of surveying method in rural areas.
CO5	Students understand Central and Decentralized extension delivery system.

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	2	1	1	3	3	3		3	1	3	3	3	1
CO2	3	3	3	1	1	3	3	3		3	3	2	3	3	1
CO3	3	2	1	1	2	2	3	3	1	1	2	3	3	3	1
CO4	3	2	2	2	1	3	3	3		2	3	3	3	2	1
CO5	3	1	1	1	1	2	3	3		2	3	3	3	3	1



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Syllabus: Communication Skills and Personality Development
Course Code: AG 209

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Knowledge of professional, cultural and cross-cultural communication
CO2	Basic knowledge of structural and functional grammar; meaning and process of communication, verbal and nonverbal communication
CO3	Reading and comprehension of general and technical articles, precise writing, summarizing, abstracting
CO4	Basic concepts of group discussion, organizing seminars and conferences
CO5	Personal organization, prioritizing and balancing; Cosmopolitan culture, Group discussions

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	1	1	1	2	3	3	1	3	3	3	2	2
CO2	1	2	1	1	1	1	2	3	2	2	3	1	3	2	2
CO3	1	2	1	1	1	1	2	3	1	2	3	3	3	2	2
CO4	1	2	1	1	1	1	2	3	2	1	3	3	3	2	2
CO5	1	2	1	1	1	1	2	2	3	1		3	3	2	2


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Syllabus: Farm Machinery and Power

Course Code: AG 301

Course Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	know the basic knowledge of farm mechanization and can promote the application of farm machinery in agriculture.
CO2	know the working principle of I C engine and they can repair and maintain the I C engine.
CO3	know the tractor operation in the field and students can repair and maintain the tractor.
CO4	have the knowledge about different farm implements like tillage, sowing, planting, and others.
CO5	have the ability to solve the numerical problems based on power, draft, cost of tractor operation with attached implements.

CO-PO-PSO mapping

PO	PO												PSO		
	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	3	2	3	3				3		3	3	3	3
CO2	2	3	2	3	3	2				3		3	3	3	2
CO3	3	2	3	3	3	3				2		3	3	2	3
CO4	3	1	2	2	3	3				2		3	3	3	1
CO5	2	3	2	2	2	2				2		3	3	2	1


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Syllabus: Agricultural Finance and Co-Operation

Course Code: AG 302

Course Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Understand various sources of agricultural finance
CO2	Students are able to understand Preparation and analysis of balance sheet
CO3	Students are able to understand the principles of cooperation, significance of cooperatives in Indian agriculture
CO4	Able to preparation of project reports and SWOT analysis
CO5	Acquired knowledge of Techno-economic parameters for preparation of projects

CO-PO-PSO mapping

PO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	1	1	1	1	2	3	1	2	2	3	3	3	2
CO2	2	3	1	1	1	1	2	3	1	2	2	3	3	3	3
CO3	2	2	1	1	1	1	1	3	1	1	1	3	3	3	2
CO4	2	3	1	1	1	1	2	3	1	3	2	3	3	2	3
CO5	2	3	1	1	1	1	2	3	1	2	2	3	3	3	3


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Syllabus: Production Technology for Vegetable and Spices
Course Code: AG 303

Course Outcome

After completion of course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Able to understand about the basic criteria for selection of vegetable crops on the basis of soil and climate requirement.
CO2	Learn the basic knowledge regarding different cultural practices followed for vegetable crops
CO3	Able to know about sowing time of specific varieties for different vegetables according to region and season.
CO4	Study of irrigation and nutrient management and their applications in production vegetables
CO5	By the end of course students will be able to know different physiological disorders and can control different insect pests and diseases.

CO-PO-PSO mapping

PO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	2	2	2	3				3	3	3	3
CO2	3	3	3	1	2	2	1	3				3	3	3	2
CO3	3	3	2	1	2	3	2	3				3	3	2	3
CO4	3	3	3	1		2	2	3				3	3	3	2
CO5	3	3		1		2		3				3	3	2	2


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Syllabus: Livestock & Poultry Management
Course Code : AG 304

Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students gain knowledge regarding livestock in Agriculture.
CO2	They understand the basics of knowledge of breeds of animals.
CO3	They gain knowledge regarding various livestock programs in India.
CO4	They have knowledge about the different livestock programs of Govt of India.
CO5	Able to know about the Role of women Place of livestock in the national economy.

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	2	1	1	3	3	3	1	3	1	3	3	3	3
CO2	3	3	3	1	1	3	3	3	1	3	3	2	2	1	1
CO3	3	2	1	1	1	2	3	3	1	1	2	3	2	2	1
CO4	3	2	2	2	1	3	3	3	1	2	3	3	2	2	2
CO5	3	1	1	1	1	2	3	3	1	2	3	3	3	2	1


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B. Sc. (Hons.) Agriculture SEMESTER-III

Crop Production Technology- I (Kharif Crops)

Course Code: AG 305

Course Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students learned the origin, distribution, climatic requirements and varieties of <i>kharif</i> crops
CO2	Students learned the method of nursery preparation and transplanting in rice.
CO3	Students can identify the common weeds of the <i>kharif</i> crops
CO4	Learned the morphological description of <i>kharif</i> crops.
CO5	Students know and can calculate the yield in the <i>kharif</i> season crops

CO-PO-PSO mapping

PO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	3	1	1	1	1	2	1	3	1	2	3	3	1
CO2	3	1	3	2	1	1	1	2	1	3	1	3	2	3	2
CO3	3	1	3	1	1	3	1	3	2	3	1	3	2	2	1
CO4	3	1	3	1	1	1	1	1	1	2	1	3	2	2	1
CO5	3	3	3	1	1	1	1	1	1	3	1	3	2	2	1


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Syllabus: Environmental Studies and Disaster Management

Course Outcome: AG 307

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students learned about the knowledge of scope and importance of multidisciplinary nature of environmental studies
CO2	Learned about the different types of natural resources.
CO3	Students learned about the concept of biodiversity and it's conservation.
CO4	Students familiarize about the definition, causes, effects and control of environmental pollution.
CO5	Learned about the meaning, types and effects of natural disasters.

CO-PO-PSO mapping

PO	PO												PSO		
	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	1	1	1	1	1	3		3		3	3	3	3
CO2	2	1	2	1	1	1	1	3		3		3	3	2	3
CO3	2	1	1	1	1	1	1	3		2		3	3	2	3
CO4	2	1	1	1	1	1	1	3		3		3	3	3	2
CO5	2	1	1	1	1	1	1	3		2		3	3	2	2


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SEMESTER-IV**Course Title: Introductory Agrometeorology & Climate Change****Course Code: AG 308****Course Outcome***After completion of the course, a student will be able to*

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Learn the significance of Meteorology
CO2	To understand the process of solar radiation and its significance in agriculture
CO3	To understand the agriculture and weather relations and its significance in agriculture
CO4	To impart knowledge about precipitation process, and importance in Indian agriculture
CO5	To understand the causes of global warming and its effect on agriculture

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	2	1	1	1	3	1	2	1	3	3	2	1
CO2	3	3	1	2	1	1	1	3	1	3	1	3	3	2	3
CO3	3	2	2	2	1	1	1	3	1	2	1	3	3	2	1
CO4	3	3	2	1	1	1	1	3	1	3	1	3	3	2	3
CO5	3	3	2	2	1	1	1	3	1	2	2	3	2	3	3

SEMESTER-III**Syllabus: Fundamentals of Plant Breeding****Course Code: AG 309****Course Outcome:***After completion of the course, a student will be able to*

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students learned about the basics, role, history and functions of plantbreeding
CO2	Learned the concept of male sterility, self-incompatibility and mode ofreproduction and also role of genetics in plant breeding
CO3	Students can employ and practice biometrical analysis in plant breeding
CO4	Knows the genetic basis and various methods in different breedingpopulations
CO5	Familiarized in the role of biotechnology, polyploidy, wide hybridizationand mutation breeding..

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	3	1	1	1		3		3		3	3	3	2
CO2	3	1	3	1	1	1		3		3		3	2	3	2
CO3	3	1	3	2	1	1		3		3		3	3	2	2
CO4	3	1	3	2	1	3		3		3		3	3	2	3
CO5	3	1	3	3	1	3		3		3		3	3	3	2


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SEMESTER-III**Syllabus: Entrepreneurship Development and Business Communication****Course Code: AG 310****Course Outcomes (CO):***After completion of the course, a student will be able to*

COURSE OUTCOME (CO)	DESCRIPTION
CO1	To learn about the concept of entrepreneur and development of SWOT analysis and achievement motivation
CO2	To know about the government policy and programs and institutions
CO3	To learn about the business leadership skills and problem-solving skill
CO4	To know about the supply chain management and total quality management
CO5	To learn about project planning formulation and report preparation

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	2	1	3	2	3	1	1	2	3	2	2	2
CO2	3	3	3	2	1	3	2	3	2	2	1	3	2	2	3
CO3	3	2	3	3	1	3	2	3	2	2	1	3	2	2	3
CO4	3	2	3	2	1	3	2	3	1	1	1	3	2	2	2
CO5	3	2	2	3	1	3	2	2	2	1	1	3	2	2	1


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SEMESTER-IV
Course Title: Crop Production Technology-II (Rabi crops)
Course Code: AC1-401

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students will have basic knowledge of origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of Rabi crops
CO2	Knowledge of soil and climatic requirements, varieties, cultural practices and yield of Rabi crops
CO3	Basic knowledge of origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of oil seed crops and pulses crops
CO4	Basic concept of origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of medicinal and aromatic crops
CO5	Knowledge of oil and climatic requirements, varieties, cultural practices and yield of fodder crops and cereal crops

CO-PO-PSO MAPPING:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	3	3	2	3	3	2	3	3	3	3	3	2
CO2	3	2	3	2	2	2	3	2	1	2	3	2	3	3	2
CO3	3	2	3	3	3	2	3	2	2	2	3	2	3	3	1
CO4	2	2	2	2	2	2	2	3	2	2	2	2	3	3	1
CO5	3	3	3	3	3	2	3	3	2	3	3	3	2	2	2


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SEMESTER-IV

Course Title: Production Technology for Ornamental Crops, MAPs and Landscaping Course

Code: AG - 402

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	The course is designed to cover a wide spectrum of the subject matter to provide complete over View of this sector.
CO2	Demonstrate a fundamental understanding of plant identification, selection, use and maintenance plant material best suited for conventional and sustainable landscapes
CO3	To know importance of Ornamental crops, Medicinal and Aromatic crops.
CO4	Aims at obtaining maximum production at minimum cost.
CO5	To study the different cut flowers like rose, gerbera and carnation under protected conditions

CO-PO-PSO MAPPING

PO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	2	3	3		3	2	1	1	3	3	3	1
CO2	3	2	3	2	3	2		3	2	3	1	2	3	3	1
CO3	3	2	3	2	3	2		3	3	2	1	3	3	3	1
CO4	3	2	3	2	3	3		3	2	3	3	3	3	3	1
CO5	3	1	1	2	3	2		3	3	3	2	3	2	2	2


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Course Title: Renewable Energy and Green Technology
Course Code: AG 403

Course Outcome:

After completion of course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Understand the various classifications of energy resources and their contribution in agricultural sector.
CO2	Familiarization with biomass utilization for biofuel production and their application.
CO3	Familiarization with solar energy gadgets, solar cooker solar water pump and solar distillation collection and their application.
CO4	Learn about bio gas and various models of bio gas plant and gasifiers.
CO5	Able to understand bio alcohol, biodiesel and bio-oil production and their utilization as bioenergy resources, introduction of solar energy.

CO-PO- PSO MAPPING:

PO CO	PO									PSO					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	1	2	2	1	2	3	1	1	1	3	3	3	1
CO2	3	2		1		1	1	3	1	1	1	3	3	3	2
CO3	3	2	1	1	2	2	2		1	1	1	3	3	3	3
CO4	3	2	1	3	3		3		1	1	1	3	3	3	3
CO5	3	2	1	3		2		1	1	1	1	3	2	2	3


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SEMESTER-IV

Course Title: Problematic Soils and their Management

Course Code: AG 404

Course Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students learned about the different types of problematic soil and its management.
CO2	Learned about the remote sensing and GIS technologies for diagnosis of problematic soil.
CO3	Students learned about the reclamation of problematic soil under different Agro systems.
CO4	Students knew about the concept of Land capability classification
CO5	Familiarized about the Irrigation water quality

CO-PO-PSO mapping

PO CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	2	2	1	1		3		2		3	3	3	1
CO2	3	1	1	2	1	1		3		3		3	3	2	1
CO3	3	1	2	2	1	1		3		2		3	3	2	1
CO4	3	1	2	1	1	1		3		3		3	3	2	1
CO5	3	1	2	2	1	1		3		2		3	2	2	1


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SEMESTER-IV**Course Title: Production Technology for Fruit and Plantation Crops****Course Code: AG -405****Course Outcome**

After completion of course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Aware about the major and minor fruits crops and different varieties suitable for different climatic regions. Also about plantation crops.
CO2	Students aware about cultural practices for the cultivation of major and minor fruit crops and plantation crops.
CO3	Students also aware about the flowering physiology and factors involved in fruit-set, unfruitfulness, fruit growth and development.
CO4	Familiar with the important physiological disorders and its management.
CO5	Aware about the different propagation techniques applied in horticultural crops including micro-propagation.

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	3	3		3	2	1	2	3	3	3	3	1
CO2	2	3	1	2	3		2	3	1	3	2	3	3	3	1
CO3	3	2		2	3	1	3	2	1	3	3	3	3	3	1
CO4	3	2	1	3	3	2	2	3	1	2	1	3	3	3	1
CO5	3	3	3	1	3	1	3	2	1	3	3	3	2	3	1


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SEMESTER-IV

Course Title:Principles of Seed Technology Course Code: AG - 406

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students will have basic knowledge of Seed and seed technology: introduction, definition and importance
CO2	Knowledge of Foundation and certified seed production of important crops
CO3	Knowledge of Seed marketing: structure and organization, sales generation activities
CO4	Basic concepts of Seed drying, processing and their steps, seed testing for quality assessment
CO5	Basic concepts of Duty and powers of seed inspector, offences and penalties. Seeds Control Order

CO-PO-PSO mapping

PO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	3	3	3	2	3	3	2	3	1	3	3	3	1
CO2	2	2	3	2	2	2	3	2	1	2	1	3	3	3	1
CO3	3	2	3	3	3	1	3	2	2	2	1	3	3	2	3
CO4	2	2	1	2	2	2	2	3	1	2	1	3	3	3	2
CO5	2	3	2	2	2	2	2	3	2	2	1	3	2	3	3


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SEMESTER-IV

Course Title: Statistical Methods

Course Code: AG 408

COURSE OUTCOMES (CO):*After completion of the course, a student will be able to*

COURSE OUTCOME (CO)	DESCRIPTION
CO1	To learn the application of statistics
CO2	To impart knowledge in understanding of various tests in agriculture
CO3	To understand the sampling methods in research work
CO4	To learn the various attributes of chi-square test, one sample and two sample test, analysis of variance etc.
CO5	Interpret the results of various tests in agriculture

CO-PO-PSO mapping

PO CO	PO									PSO					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO1 2	PSO1	PSO2	PSO3
CO1	1	3	3	3	3	2	3	3	2	3	1	3	3	2	1
CO2	2	3	3	2	2	2	3	2	1	2	1	3	3	2	1
CO3	3	3	3	3	3	1	3	2	2	2	2	3	3	2	1
CO4	2	3	1	2	2	2	2	3	1	2	1	3	3	2	1
CO5	2	3	2	2	2	2	2	3	2	2	3	3	2	3	1


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SEMESTER-IV

Course Title: Agricultural Marketing, Trade and Prices

Course Code: AG-409

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	To Enable students to gain knowledge on agricultural marketing and prospects for improving agricultural marketing system.
CO2	To analyze Marketing Functions, Market Information and Intelligence.
CO3	Imparting knowledge of the marketing efficiency and agricultural prices.
CO4	Student will understand the basics of the marketing trade
CO5	To Provide the platform to the students of Marketing of Agricultural Inputs.

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	3	3	3	3	2	3	3	2	3	1	3	3	2	3
CO2	2	3	3	2	2	2	3	2	1	2	1	3	3	2	3
CO3	3	3	3	3	3	1	3	2	2	2	2	3	3	2	3
CO4	2	3	1	2	2	2	2	3	1	2	1	3	3	2	3
CO5	2	3	2	2	2	2	2	3	2	2	3	3	2	3	3


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Course Title: Agrochemicals

Course Code: AG410(C)

Course Outcome:

CO1	Students learned about the Introduction, definition, goal and current concepts of different agrochemical.
CO2	Knowledge of sampling of fertilizer and pesticide
CO3	Students familiarize with the different methods of pesticides, herbicides and insecticides
CO4	Gained the knowledge of the various concepts plant bio-pesticides forecological agriculture
CO5	Studied the basic concept of fertilizer and their importance.

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	1	1	2	1	2	2	2	3	2	2
CO2	3	1	2	2	3	1	1	2	1	3	3	2	3	2	2
CO3	3	1	2	3	3	1	2	2	1	3	3	2	3	2	2
CO4	3	1	2	2	3	1	1	2	1	2	2	1	3	2	2
CO5	3	1	2	3	2	1	1	2	1	3	2	1	2	2	2


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SEMESTER-V**Syllabus: Principles of Integrated Pest and Disease Management Course Code: AG****COURSE: Principles of Integrated Pest and Disease Management****COURSE CODE: AG 501****COURSE OUTCOMES (CO):***After completion of the course, a student will be able to*

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Knowledge about the concept and tools of Integrated Pest Management
CO2	Methods of control: Host plant resistance
CO3	Knowledge of conventional pesticides for the insect pests and disease management
CO4	Development and validation of IPM module
CO5	Knowledge of biology and characteristics of insect pests of different orders

CO-PO-PSO Mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	1	3	2	3	1	2	2	3	3	3	3
CO2	2	2	2	2	1	3	2	3	1	2	2	3	3	3	1
CO3	2	2	3	1	1	3	2	2	1	2	2	2	3	3	1
CO4	2	2	3	1	1	3	2	2	1	1	2	3	3	3	1
CO5	2	2	2	1	1	3	2	2	2	2	2	3	2	2	2



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SEMESTER-V

Syllabus: Manures, Fertilizers and Soil Fertility Management Course Code: AG
COURSE CODE: AG 502

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Introduction and importance of organic manures
CO2	To learn about green leaf manuring, know about the recommended fertilizer approaches
CO3	To learn about the soil fertility and soil testing
CO4	To learn about the different factor influencing nutrient use efficiency
CO5	To learn about the methods of application under rainfed and irrigated conditions

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	1	3	2	3	1	2	2	3	3	3	3
CO2	2	2	2	2	1	3	2	3	1	2	2	3	3	2	1
CO3	2	2	3	1	1	3	2	2	1	2	2	2	3	3	2
CO4	2	2	3	1	1	3	2	2	1	1	2	3	3	3	1
CO5	2	2	2	1	1	3	2	2	2	2	2	3	3	3	2


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Syllabus: Pests of Crops and Stored Grain and their Management
Course Code: AG 503

COURSE CODE: AG 503

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Know about the concept of major and minor pests of the major agricultural crops
CO2	Management of different pests using a set of techniques
CO3	Mode of damage caused by insects of different crops
CO4	Integrated pest Management and its application on different crops
CO5	Familiar with biology and life cycle of insect pests and its application in their control

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	1	3	2	3	1	1	2	1	3	2	2
CO2	2	3	2	2	2	3	2	3	2	2	1	2	2	3	2
CO3	3	2	3	3	2	3	2	3	2	2	1	2	3	2	3
CO4	2	2	3	2	2	3	2	3	1	1	1	3	2	2	3
CO5	2	2	2	3	2	3	2	2	2	1	1	2	2	2	2


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SEMESTER-V

Syllabus: Diseases of Field and Horticultural Crops and their Management -I
Course Code: AG 504

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Knowledge and concept of different disease of horticultural crops
CO2	Basics of damage caused by microbes in different horticultural crops
CO3	Knowledge of management practices including physical, cultural, mechanical biological and chemical measures
CO4	Study of deterioration of fruits
CO5	Study of storage and methods of fruits, grain storage

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	1	3	2	3	1	1	2	1	3	3	2
CO2	3	3	2	2	2	3	2	3	2	2	1	2	2	3	2
CO3	3	2	3	3	2	3	2	3	2	2	1	2	3	2	1
CO4	2	2	3	2	2	3	2	3	1	1	1	3	2	2	1
CO5	2	2	2	3	2	3	2	2	2	1	1	2	2	2	1

SEMESTER-V
Syllabus: Crop Improvement-I (Kharif Crops)
Course Code: AG 505

Course Outcomes (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	able to learn different breeding objectives of kharif crops
CO2	able to understand basic knowledge about breeding methods in kharif crops
CO3	able to learn hybridization techniques and hybrid concept
CO4	able to learn mechanism of self and cross pollination
CO5	able to learn crop variety development programme

CO-PO-PSO mapping

PO	PO												PSO		
	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	3	2	1	2	2	3	1	1	2	1	3	3	1
CO2	3	3	3	2	1	2	2	3	2	2	1	2	3	3	1
CO3	3	2	3	3	1	2	2	3	2	2	1	2	3	3	1
CO4	3	2	3	2	1	2	2	3	1	1	1	3	2	2	1
CO5	3	2	2	3	1	2	2	2	2	1	1	2	2	2	1


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SEMESTER-V**Syllabus: Geoinformatics and Nano-technology and Precision Farming****Course Code: AG 506****COURSE OUTCOMES (CO):***After completion of the course, a student will be able to*

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Understands the basics of geoinformatics and nanotechnology
CO2	Understands the applications of geoinformatics and nanotechnology in agriculture
CO3	Familiarize students to handle various geoinformatic tools and softwares
CO4	Study of introduction to crop Simulation models
CO5	Study of Precision agriculture and concept and techniques

CO-PO-PSO mapping

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
CO1	3	3	2	3	3	3	3	3	2	3	3	3	3	3	2
CO2	3	3	2	3	2	3	3	3	2	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3	2	3	3	3	2	2	3
CO4	2	2	3	3	2	3	3	3	2	2	2	3	3	2	2
CO5	2	3	2	3	3	3	3	2	2	3	3	3	3	2	1


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SEMESTER-V
Syllabus: Practical Crop Production – I (Kharif crops)
Course Code: AG 507

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	To know about crop planning, multiple cropping systems, field preparation and seedtreatment
CO2	To know about field crops
CO3	To know about threshing, drying, winnowing, storage and marketing
CO4	TO know about the insect disease management
CO5	To learn about seed production, mechanization, resource conservation and integrated nutrient

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	3	3	3	3	3	2	3	3	3	3	3	1
CO2	3	3	2	3	2	3	3	3	2	3	3	3	3	3	1
CO3	3	3	3	3	3	3	3	3	2	3	3	3	2	2	1
CO4	2	2	3	3	2	3	3	3	2	2	2	3	3	3	1
CO5	2	3	2	3	3	3	3	2	2	3	3	3	3	2	1

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SEMESTER-V**Syllabus: Intellectual Property Rights****Course Code: AG 508****Course Outcome:***After completion of the course, a student will be able to*

COURSE OUTCOME	DESCRIPTION
CO1	Students will aware about the concept of Intellectual Property.
CO2	Students will aware about the different tools for protecting the Intellectual Property.
CO3	Students will aware about the global and Indian laws regarding Intellectual Property.
CO4	Students will aware about application of Intellectual Property laws for protection of plantvariety.
CO5	Students will aware about the different treaties, conventions and Acts about protecting plantsgenetic resources on global and India level.

CO-PO-PSO mapping

PO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	3	1	1	3	1	2	3	2	1	2	2	3
CO2	2	1	1	3	1	1	3	1	2	3	2	1	3	3	3
CO3	2	1	1	3	1	1	3	1	2	3	2	1	3	2	3
CO4	2	1	1	3	1	1	3	1	2	3	2	1	2	3	3
CO5	2	1	1	3	1	3	1	1	2	3	2	1	3	2	3



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Course Title: Agribusiness Management
 Course Code: AG 509(A)

Course Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students are well aware about the agribusiness concepts and importance.
CO2	Students are well aware about different type agro-based industries and their importance.
CO3	Students have knowledge about agribusiness environment including suppliers, competitors, customers, political and economic system.
CO4	Students have knowledge about different marketing techniques, PLC, pricing strategies and marketing mix.
CO5	Student can understand financial management concepts applied to the agro-based industries.

CO-PO-PSO mapping

PO	PO											PSO			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	3	3	1	1	3	1	2	3	3	3	3	2	3
CO2	3	2	3	3	1	1	3	1	3	3	3	3	3	2	3
CO3	3	1	2	3	1	1	3	2	2	2	3	3	3	2	3
CO4	3	1	2	3	1	2	3	2	3	3	3	3	3	2	3
CO5	3	2	3	3	1	2	3	1	2	2	3	3	2	2	3


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Syllabus: Rainfed Agriculture & Watershed Management
 Course Code: AG 601

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Understand the various scope of rainfed agriculture and watershed management
CO2	To Familiar with the problems and prospects of rainfed agriculture in India
CO3	Students are able to know concept, objective principles and types of watershedmanagement,
CO4	Learn about the drought types and effect of water deficit on physio-morphological characteristics of the plants
CO5	Able to understand the efficient utilization of water through soil and crop management practices besides contingent crop planning for aberrant weather conditions

CO-PO-PSO mapping

PO	P O												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO2	PSO 3
CO1	3	2	2	2	1	3	2	3	1	2	2	3	3	3	1
CO2	2	2	2	2	1	3	2	3	1	2	2	3	2	2	1
CO3	2	2	3	1	1	3	2	2	1	2	2	2	3	2	1
CO4	2	2	3	1	1	3	2	2	1	1	2	3	3	2	1
CO5	2	2	2	1	1	3	2	2	2	2	2	3	3	3	1


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Syllabus: Protected Cultivation and Secondary Agriculture

Paper Code: AG 602

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to understand the

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Basics of greenhouse technology
CO2	Designing criteria of green houses
CO3	Different greenhouse equipment's and economic analysis
CO4	PHT equipment design and operation
CO5	Working, selection and principles of different driving equipment's

CO-PO-PSO mapping

CO	P O												PS O		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO2	PSO 3
CO1	3	3	2	2	3	2	-	3	1	1	2	3	3	2	1
CO2	2	2	2	2	3	2	-	3	1	1	2	3	3	2	1
CO3	2	3	1	1	3	2	-	2	1	1	2	2	3	2	1
CO4	3	2	1	1	2	1	-	2	1	1	2	3	3	2	1
CO5	2	3	1	1	2	-	-	2	1	1	2	3	3	2	1


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Syllabus: Diseases of Field and Horticultural Crops and their Management-II

Course Code : AG 603

Course Outcome (CO):

CO 1	<i>This course will help the students to identify diseases of field and horticultural crops in farmer's field.</i>
CO 2	The student can use the basic knowledge regarding different factors affecting disease development.
CO 3	<i>The student will gain knowledge about the recommendation of management practices in order to minimize the harvesting loss.</i>

CO-PO-PSO mapping

PO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
CO1	2	1	2	1	3	3	1	2	1	2	1	2	3	2	1
CO2	1	1	3	3	1	2	1	1	3	3	1	2	3	2	1
CO3	1	2	1	2	1	3	3	2	1	2	1	2	3	2	1


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Syllabus: Management of Beneficial Insects
Course Code: AG 604

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Basics knowledge of beneficial insects and their economic importance
CO2	Knowledge of tools and practices of Apiculture
CO3	Knowledge of tools and practices of Sericulture
CO4	Knowledge of tools and practices of Lac culture
CO5	Knowledge of different helpful insects including parasitoids and predators and otherproductive insects

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO 2	PSO 3
CO1	3	2	2	2	1	3	2	3	1	2	2	3	3	3	1
CO2	2	2	2	2	1	3	2	3	1	2	2	3	3	3	1
CO3	2	2	3	1	1	3	2	2	1	2	2	2	3	3	1
CO4	2	2	3	1	1	3	2	2	1	1	2	3	3	2	1
CO5	2	2	2	1	1	3	2	2	2	2	2	3	3	2	1


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Syllabus: Crop Improvement-II (Rabi crops)
Course Code: AG 605

Course Outcomes (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	able to learn different breeding objectives of rabi crops
CO2	able to understand basic knowledge about breeding methods in rabi crops
CO3	able to learn hybridization techniques and hybrid concept
CO4	able to learn mechanism of self and cross pollination
CO5	able to learn crop ideotype breeding concept

CO-PO-PSO mapping

PO CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	2	1	2	2	3	1	1	2	1	3	3	1
CO2	3	3	3	2	1	2	2	3	2	2	1	2	3	3	1
CO3	3	2	3	3	1	2	2	3	2	2	1	2	3	3	1
CO4	3	2	3	2	1	2	2	3	1	1	1	3	3	2	1
CO5	3	2	2	3	1	2	2	2	2	1	1	2	3	2	1


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Syllabus: Principles of Organic Farming
Course Code: AG606

Course Outcome (CO):

CO1	<i>This course will help the students to know the principles, concept, scope and importance of organic farming</i>
CO2	The student can use the basic knowledge regarding INM, IPM and IWM practices
CO3	<i>The student will gain knowledge about the preparation of organic compost</i>
CO4	<i>Students to know the application and procedure certification, standard and marketing of organic product</i>

CO-PO-PSO mapping

PO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	1	3	3	1	2	1	2	2	1	3	2	1
CO2	1	1	3	3	1	2	1	1	3	3	1	1	3	2	2
CO3	1	2	1	2	1	3	3	2	1	1	1	2	3	2	1
CO4	1	2	3	1	2	1	2	2	3	3	1	2	3	2	2

Syllabus: Farm Management, Production & Resource Economics
Course Code: AG 607

Course Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students are aware of basic principles of economics and Meaning, Definition, Nature and Scope of Production Economics.
CO2	Students know Economics Models.
CO3	Students understand Agricultural Production Economics and its practical usage.
CO4	To study about farm records.
CO5	To be familiar with market structures.

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3					2	3	3	3	3	3	3	2	2
CO2	3	3					1	3	2	3	3	2	3	2	1
CO3	3	2					2	3	2	1	3	3	3	2	1
CO4	3	3					1	3	2	2	3	3	3	1	2
CO5	3	3					2	2	2	3	3	3	3	2	3


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Syllabus: Principles of Food Science and Nutrition
Course Code: AG 608

Course Outcome

After completion of course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students able to understand the importance and scope of food science, processing, post-harvest losses, principles and methods of food science and nutrition
CO2	Able to know about physical, chemical and biological properties of food and other food material.
CO3	Student able to understand about different types of food and their composition and chemistry.
CO4	Able to know about about food microbiology and principles and methods of food processing and preservation
CO5	Students able to understand the basic Knowledge regarding food and nutrition, malnutrition, nutritional disorders, energy metabolism, balanced/ modified diets, menu planning and new trends in food science and nutrition

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	2	-	-	-	3	-	3	3	2	3	2	1
CO2	3	3	3	2	-	-	-	3	-	2	2	3	3	2	1
CO3	3	3	2	2	-	-	-	3	-	3	2	3	3	2	1
CO4	3	3	3	1	-	-	-	3	-	3	2	3	3	2	2
CO5	3	3	2	3	-	-	-	3	-	3	2	3	3	3	1


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Syllabus: Post-harvest Management and Value Addition of Fruits and Vegetables
Course Code: AG 609

COURSE OUTCOMES (CO):

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Basics of post-harvest management and value addition
CO2	factors affecting post-harvest quality
CO3	Principles and methods of preservation
CO4	Post-harvest products
CO5	Principles of drying, canning and packaging

CO-PO-PSO mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	3	3	2	-	3	1	2	2	3	3	2	1
CO2	3	3	2	3	3	2	-	3	1	2	2	3	3	3	1
CO3	3	3	1	3	3	2	-	3	1	2	2	3	3	3	1
CO4	3	3	1	3	3	-	-	3	1	2	2	3	3	2	1
CO5	3	3	1	3	3	-	-	3	1	2	2	3	3	2	1


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Syllabus: Practical Crop Production –II (Rabi crops)
Course Code: AG 610

Course Outcomes (CO):

After completion of the course, a student will be able to-

COURSE OUTCOME (CO)	DESCRIPTI ON
CO1	able to learn field crops
CO2	able to understand multiple cropping system
CO3	able to learn weed management of diseases
CO4	able to learn seed production, mechanization, resourceconservation
CO5	able to learn integrated nutrient management

CO-PO-PSO mapping

PO CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	2	1	2	2	3	1	1	2	1	3	2	1
CO2	3	3	3	2	1	2	2	3	2	2	1	2	3	2	1
CO3	3	2	3	3	1	2	2	3	2	2	1	2	3	2	1
CO4	3	2	3	2	1	2	2	3	1	1	1	3	3	1	1
CO5	3	2	2	3	1	2	2	2	2	1	1	2	3	2	1


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Course Title: Weed Management
Course Code: AG 611(A)

Course Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	To learn about the types of weeds
CO2	To familiarize with the classification of weeds and herbicides
CO3	To gain the knowledge about Bio-herbicides and their application in agriculture
CO4	To understand the Integration of herbicides management
CO5	To study the Integration of herbicides with non chemical methods

CO-PO-PSO mapping

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3
CO1	3	1	3	3	1	1	1	1	1	3	1	3	3	2	1
CO2	3	2	3	3	1	1	1	1	1	3	2	3	3	2	1
CO3	3	1	2	3	1	1	1	2	1	2	3	3	3	2	1
CO4	3	1	2	3	1	2	1	2	1	3	2	3	3	2	1
CO5	3	2	3	3	1	2	1	1	1	2	3	3	2	2	1



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SEMESTER-VIII

MUSHROOM CULTIVATION TECHNOLOGY

Course Code: AG 801 (B)

Course Outcome:*After completion of the course, a student will be able to*

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students will learn about the basics of Mushroom
CO2	Students will learn about the morphology and types of Mushrooms
CO3	Students will familiarize with spawn production technique
CO4	They will be aware regarding the identification of edible and poisonous Mushrooms
CO5	Studied will be able to commercialize the mushroom which will help in sustainable development along with a part of earning

CO-PO-PSO Mapping

PO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	3	3	2	3	2	3	2	3	3	3	3
CO2	3	3	3	3	2	3	2	1	2	3	3	2	1	3	1
CO3	2	3	1	3	2	2	2	3	3	2	2	3	3	2	1
CO4	3	2	2	2	1	3	2	1	2	2	3	3	2	3	3
CO5	3	1	3	1	1	2	2	3	1	2	3	1	2	3	3


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SEMESTER-VIII

BEEKEEPING

Course Code: AG 801(D)

Course Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students will learn about the basics of honey bees
CO2	Students will learn about the bee keeping appliances
CO3	Students will familiarize with the different honey extracting apparatus
CO4	They will gain knowledge of the various products of honeybees including beeswax, propolis, flower pollen, bee pollen, and royal jelly including honey
CO5	Studied will be able to commercialize the honey bees which will help in sustainable development along with a part of earning

CO-PO-PSO Mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	3	3	3	2	2	3	3	3	2	2	2
CO2	3	3	3	1	3	3	3	2	2	2	3	3	2	3	3
CO3	2	2	1	1	2	2	1	3	1	2	3	2	3	3	2
CO4	3	2	2	2	2	3	3	2	2	3	3	3	3	3	3
CO5	2	2	2	1	2	2	1	3	2	2	3	3	3	1	3


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SEMESTER-VIII
FLORICULTURE AND LANDSCAPING
 Course Code: AG 802(A)

Course Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME(CO)	DESCRIPTION
CO1	Student will be able to landscaping terrace gardening, vertical gardening, garden components, adornments etc
CO2	Students will learn about climber and creepers: importance, selection, propagation, planting
CO3	Students can make landscape and gardening and interior landscaping plans
CO4	Student will become eligible to manage a commercial floriculture unit
CO5	The student will be able to practice production technology of cut flowers, loose flowers and principle of growing commercial flowers

CO-PO-PSO Mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	3	2	2	3	2	3	2	2	2	3	2
CO2	2	3	3	3	2	3	3	3	2	3	3	2	2	3	3
CO3	2	2	3	3	2	2	2	2	1	2	1	3	3	3	3
CO4	3	3	2	2	1	2	3	2	2	2	3	3	2	3	3
CO5	3	3	3	2	2	2	3	3	2	2	1	3	3	3	2


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SEMESTER-VIII
ORGANIC PRODUCTION TECHNOLOGY
Course Code: AG802(B)

Course Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Acquire knowledge on concepts of organic agriculture.
CO2	Gain the information about the impact of organic farming and indigenous practices on environment.
CO3	Understand the procedure followed for organic certification as per NPOP guidelines namely production standards, labelling and accreditation.
CO4	Equip students with geostatistical techniques and variables of crop yield mapping.
CO5	Understand GIS based nutrient delivery system and DSSAT for variable crop yield mapping

CO-PO-PSO Mapping

PO	PO												PSO		
	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	2	3	3	3	2	3	2	3	2	3	2	3	2
CO2	3	3	3	3	2	3	2	3	2	3	3	3	3	3	2
CO3	2	3	1	3	2	2	3	1	3	2	2	3	3	3	3s
CO4	3	3	2	3	3	3	2	3	2	2	1	3	2	2	2
CO5	1	3	1	3	1	2	2	1	1	2	3	3	3	2	2


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SEMESTER-VIII

COMMERCIAL HORTICULTURE

Course Code: AG802 (D)

Course Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	Students can become eligible to undertake end to end technical and management aspects of a commercial nursery
CO2	Have practical knowledge on different Horti□based industries situated in and around the neighboring districts
CO3	Applying and analyzing the food safety methods
CO4	Understanding the importance of commercial horticulture and protected cultivation
CO5	Can practice skills in various organic production techniques and regulatory practices

CO-PO-PSO Mapping

PO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	2	2	3	2	3	3	3	2	3	3
CO2	2	3	2	1	1	2	2	2	2	3	2	3	2	2	2
CO3	3	3	2	1	1	3	3	3	3	2	3	1	3	2	3
CO4	2	2	1	2	2	1	3	2	1	3	3	3	3	3	3
CO5	3	3	2	1	2	3	3	3	2	2	3	3	3	2	3


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SEMESTER-VIII
AGRICULTURE WASTE MANAGEMENT
Course Code: AG 802(F)

Course Outcome:

After completion of the course, a student will be able to

COURSE OUTCOME (CO)	DESCRIPTION
CO1	To gain the knowledge of management of agriculture wastes
CO2	To know about how farmers can reduce food waste
CO3	To assess the importance of conversion of waste into renewable energy
CO4	To know about how agricultural wastes harm environment
CO5	To learn how to create wealth from agricultural waste

CO-PO-PSO Mapping

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	3	3	3	3	2	3	2	3	2	3	3
CO2	3	3	3	1	2	3	3	3	2	3	3	3	2	3	3
CO3	3	2	1	1	2	2	3	3	1	2	2	3	2	3	3
CO4	3	2	2	2	1	3	3	3	2	2	3	3	2	3	3
CO5	3	1	1	1	1	2	3	3	2	2	3	3	2	3	3


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