MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: RURAL SOCIOLOGY AND EDUCATIONAL PSYCHOLOGY

COURSE CODE: AG19107 CREDITS: 2

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyze complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental

context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognize the need and ability to engage in independent and lifelong learning in the context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organization.

	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL]
CO1	Describe the importance of rural sociology in agriculture extension.	II (UNDERSTAND)	

CO2	Explain different concepts in rural sociology like social stratification, culture, social institutions, social change and social ecology.	IV (ANALYSE)
CO3	Explain the concept of rural development in India.	II (UNDERSTAND)
CO4	Explain the importance of educational psychology in agricultural extension with s pecial emphasis on leadership, personality and motivation.	IV (ANALYSE)
CO5	Apply various theories of motivation, intelligence, process of teaching and learning with special reference to extension teaching.	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H		H						H		H	
C02	Η		H						Н		H	
C03	H		H						H		H	
C04	H		H						S		H	
C05	Η		H						Н		H	

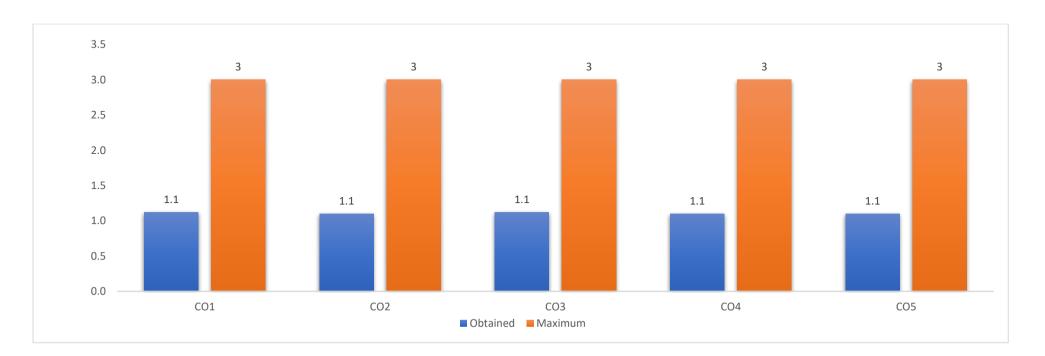
H: Highly Supportive

S: Supportive

OUTCOME	Р	01	PO2	P	03	PO4	PO5	PO6	PO7	PO8
CO1	Н	1.12		Н	1.12					
CO2	Н	1.1		Н	1.1					
CO3	Н	1.12		Н	1.12					
CO4	Н	1.1		Н	1.1					
CO5	Н	1.1		Н	1.1					
AVERAGE OF COS FOR POS	1 108			1.1	108					
AVERAGE OF POS		1.1056			1.1056					

AVERAGE

1.1056



C	mid exam 1	mid exam 2	group discussion	assignment	viva	Attendence	External Exam
			0	0			

	pass %	Attainme nt level	co wise intern al averag e	pass %	Attainme nt level	co wise external average	co wise total average										
CO 1	96.1	3.0			100.0	3.0	100. 0	3.0	100. 0	3.0	84.3	2.0	2.8	35.3	0.0	0.0	1.1
CO 2	96.1	3.0			100.0	3.0			100. 0	3.0	84.3	2.0	2.8	35.3	0.0	0.0	1.1
CO 3	96.1	3.0	98.0	3.0	100.0	3.0			100. 0	3.0	84.3	2.0	2.8	35.3	0.0	0.0	1.1
CO 4			98.0	3.0	100.0	3.0			100. 0	3.0	84.3	2.0	2.8	35.3	0.0	0.0	1.1
CO 5			98.0	3.0	100.0	3.0			100. 0	3.0	84.3	2.0	2.8	35.3	0.0	0.0	1.1

AVERA	AVERA
GE	GE
0	1.108

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: FUNDAMENTALS OF AGRICULTURAL EXTENSION EDUCATION

COURSE CODE: AG19408 CREDITS: 2

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyze complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental **context and for sustainable development**

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognize the need and ability to engage in independent and lifelong learning in the context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organization.

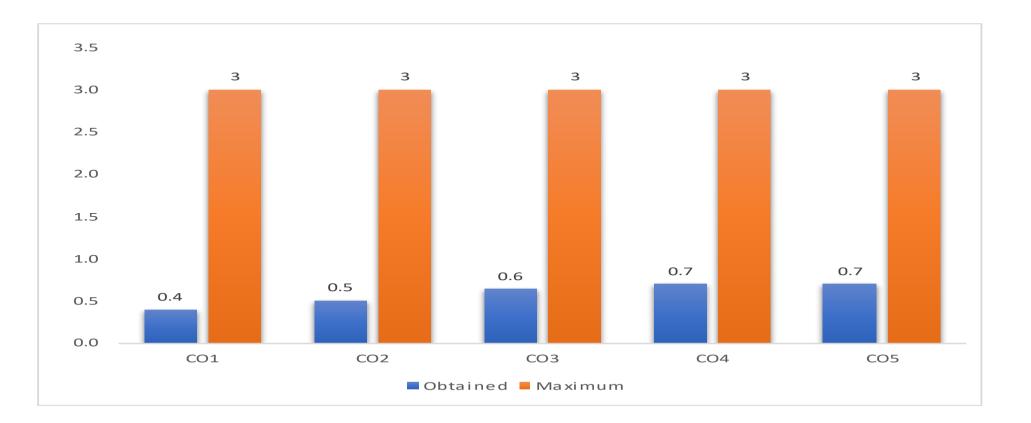
-	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Explain the importance of extension education in agriculture sector.	II (UNDERSTAND)
CO2	Organize different agricultural extension methods with reference to group contact methods.	IV (ANALYSE)
CO3	Organize different agricultural extension methods with reference to mass contact methods.	IV (ANALYSE)
CO4	Apply the principles of journalism in Agricultural extension and prepare different types of Audio-Visual aids	IV (ANALYSE)
CO5	Solving of the problems of villages by applying Participatory Rural Appraisal (PRA) technique	IV (ANALYSE)

TABLE 1: CO, PO, PSO MAPPING

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H	S	H	S		H	Н	H		S		H
C02	H	H	H	H		H	Н	H		H		Н
C03	H	H	S	H		H	Η	H		Η		Η

C04	H	Н	Н	H	Н	H	H	H	S
C05	H	Н	Н	Н	Н	H	H	H	H

		H: Hig	hly Sup	oortive				S: 5	Supportive						
OUTCOME	P	01	P	202	PO3		P	PO4	PO5	PO6		PO7		PO8	
CO1	Н	0.4			Н	0.4				Н	0.4	Н	0.4	Н	0.4
CO2	Н	0.5	н	0.5	Н	0.5	Н	0.5		Н	0.5	Н	0.5	Н	0.5
CO3	Н 0.64		Н 0.64				Н	0.64		Н	0.64	Н	0.64	н	0.64
CO4	Н 0.7		Н	Н 0.7 Н		0.7	Н	0.7		Н	0.7	Н	0.7	H	0.7
CO5	Н	0.7	н	0.7	н	0.7	Н	0.7		Н	0.7	Н	0.7	Н	0.7
AVERAGE OF COS FOR POS	0.!	0.588 0.635		635	0.575		0.635			0.588		0.588		0.	588
AVERAGE OF POS		0.6256		0.635		0.61875		0.635			0.6256		0.6256		0.6256
AVERAGE								0.	627307143						



со	mi¢	id exam 1	mid exam 2		group discussion		assignment			viva		Attendence			External Ex	External Exam	
	pass %	Attainme nt level	pass %	Attainme nt level	pass%	Attainme nt level	pass %	Attainme nt level	pass %	Attainme nt level	pass %	Attainme nt level	co wise intern al	pass %			co wise total average

													averag e				
CO 1	68.5	1.0			77.2	2.0	52.2	0.0	67.4	1.0	67.4	1.0	1.0	44.6	0.0	0.0	0.4
CO 2	68.5	1.0			77.2	2.0			67.4	1.0	67.4	1.0	1.3	44.6	0.0	0.0	0.5
CO 3	68.5	1.0	87.0	3.0	77.2	2.0			67.4	1.0	67.4	1.0	1.6	44.6	0.0	0.0	0.6
CO 4			87.0	3.0	77.2	2.0			67.4	1.0	67.4	1.0	1.8	44.6	0.0	0.0	0.7
CO 5			87.0	3.0	77.2	2.0			67.4	1.0	67.4	1.0	1.8	44.6	0.0	0.0	0.7

AVERA	AVERA
GE	GE
0	0.588

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: ENTREPRENEURSHIP DEVELOPMENT & BUSINESS COMMUNICATION

COURSE CODE: AG20503 CREDITS: 1

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyze complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental **context and for sustainable development**

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognize the need and ability to engage in independent and lifelong learning in the context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organization.

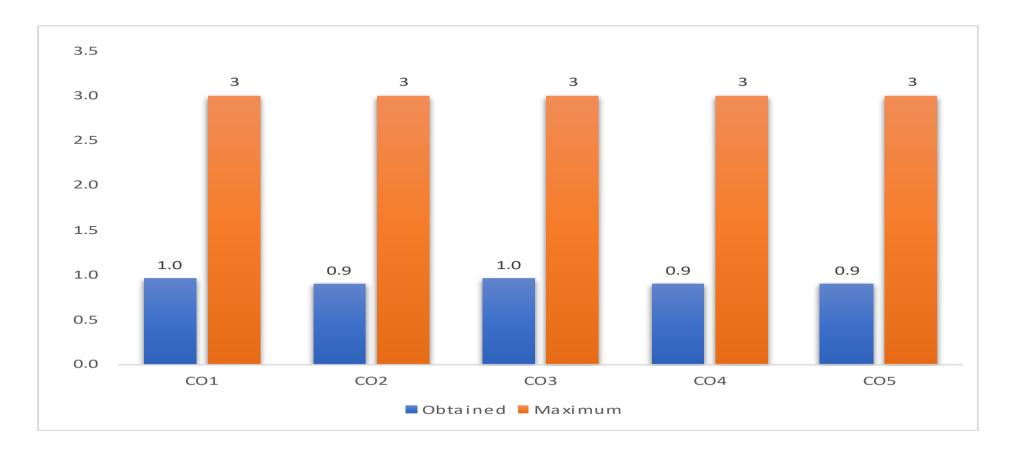
	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Describe the concepts of entrepreneur, entrepreneurship, agricultural entrepreneurship	II (UNDERSTAND)
CO2	characteristics of entrepreneur, achievement motivation & entrepreneurship, business management skills.	IV (ANALYSE)
CO3	Gain knowledge and skills in project formulation, project report preparation and evaluation of projects.	IV (ANALYSE)
CO4	Explain Entrepreneurship Development programmes, Government policies, schemes and incentives for promotion of entrepreneurship, supply chain management and total quality management	IV (ANALYSE)
CO5	Develop business communication skills- reading, writing, listening and presentation skills.	IV (ANALYSE)

TABLE 1: CO, PO, PSO MAPPING

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H		H	S			H	Н		S		H
C02	H		Н	Н			Н	Η		H		Η
C03	H		Н	Н	H		Н	Η		H		H

C04	H	H	H	S	H	H	H	S
C05	Η	Η	Η	S	S	H	H	H

		H: High	ly Supportive				S: Sup	portive					
OUTCOME	PC	01	PO2	F	PO3	F	PO4	Р	05	PO6	P	07	PO8
C01	Н	0.96		Н	0.96						н	0.96	н о
CO2	н	0.9		н	0.9	н	0.9				н	0.9	н (
CO3	н	0.96		Н	0.96	н	0.96	Н	0.96		н	0.96	н 0
CO4	н	0.9		Н	0.9	н	0.9				н	0.9	H (
CO5	н	0.9		Н	0.9	н	0.9						H (
AVERAGE OF COS FOR POS	0.9	24		0	.924	0	.915	0	.96		O	.93	0.924
AVERAGE OF POS		0.9168			0.9168		0.915		0.96			0.9225	0.9
AVERAGE				0.92465									



со	mid	mid exam 1 mid exam 2		exam 2	group discussion		assignment			viva	Att	endence			External Ex	am	
	pass %	Attainme nt level	pass %	Attainme nt level	pass%	Attainme nt level	pass %	Attainme nt level	pass %	Attainme nt level	pass %	Attainme nt level	co wise intern al	pass %	Attainme nt level	co wise externa I average	co wise total average

													averag e				
CO 1	91.2	3.0			100.0	3.0	95.6	3.0	96.7	3.0	57.1	0.0	2.4	59.3	0.0	0.0	1.0
CO 2	91.2	3.0			100.0	3.0			96.7	3.0	57.1	0.0	2.3	59.3	0.0	0.0	0.9
CO 3	91.2	3.0	94.5	3.0	100.0	3.0			96.7	3.0	57.1	0.0	2.4	59.3	0.0	0.0	1.0
CO 4			94.5	3.0	100.0	3.0			96.7	3.0	57.1	0.0	2.3	59.3	0.0	0.0	0.9
CO 5			94.5	3.0	100.0	3.0			96.7	3.0	57.1	0.0	2.3	59.3	0.0	0.0	0.9

AVERA	AVERA
GE	GE
0	0.924

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: FUNDAMENTALS OF CROP PHYSIOLOGY

COURSE CODE: AG19103 CREDITS: 1

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

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PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. To impart various plant metabolic processes occurring at different stages of plant growth which lead to development.

PSO2. To study the growth and development of plants.

PSO3. To study the effect of nutrients and growth regulators and their applications in agriculture.

PSO4. To understand the physiology of seeds and fruit ripening.

	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Explain the importance of crop physiology, crop water relations and seed germination	II (UNDERSTAND)
CO2	Apply the knowledge of photosynthesis and respiration in increasing crop productivity	IV (ANALYSE)
CO3	Apply the knowledge of nutrio-physiology and flowering physiology in increasing crop productivity	IV (ANALYSE)
CO4	Explains the role of plant growth regulatorsin agriculture and horticulture	II (UNDERSTAND)
CO5	Analyze growth and development of major crops	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	S		Н						Н		Н	
C02	Н		Н						Н		S	
C03	Н		Н						Н		Н	
C04	Н		S						Н		Н	

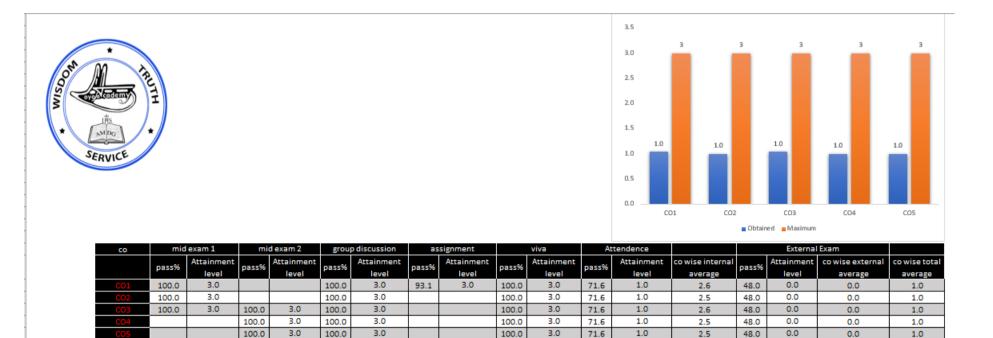
C05	Н		Н						Н		Н	
-----	---	--	---	--	--	--	--	--	---	--	---	--

H: Highly Supportive

S: Supportive



OUTCOME	PC	01	PO2	F	03	PO4	PO5	PO6	PO7	PO8		
CO1				н	1.04							
CO2	н	1		н	1							
CO3	н	1.04		н	1.04							
CO4	н	1										
CO5	н	1		н	1							
AVERAGE OF COS FOR POS	1.	01		1	.02							
AVERAGE OF POS		1.01			1.015							
AVERAGE							1.0125					



MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: FUNDAMENTALS OF HORTICULTURE

COURSE CODE: AG18106 CREDITS: 1

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. To impart knowledge on Fundamentals of Horticulture

PSO2. To impart knowledge on various cultural operations involved in raising of orchards.

	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Define various branches.	II (UNDERSTAND)
CO2	Distinguish methods of Propagation	IV (ANALYSE)
CO3	Identify and explain various vegetative propagation Method	IV (ANALYSE)
CO4	Distinguish and differentiate growth regulators and effects	II (UNDERSTAND)
CO5	Classify and compare irrigation and fertilizer application methods	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	Н		Н						Н		Н	
C02	Η		Η						Η		Η	
C03	Η		Η						Η		Н	
C04	Η		Η						Η		Η	
C05	Η		Η						Η		Η	

H: Highly Supportive

S: Supportive



OUTCOME	P	01	PO2	P	03	PO4	PO5	PO6	PO7	PO8		
C01	Н	1.2		н	1.2							
CO2	н	1.2		н	1.2							
CO3	Н	1.2		Н	1.2							
CO4	Н	1.2		Н	1.2							
CO5	Н	1.2		н	1.2							
AVERAGE OF COS FOR POS	1	2		1	.2							
AVERAGE OF POS		1.2			1.2							
AVERAGE	AVERAGE						1.2					



MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: GEO-INFORMATICS AND NANOTECHNOLOGY FOR PRECISION FARMING

COURSE CODE: AG20602

CREDITS: 2

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

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PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT-WISE):

PSO1. To impart knowledge on GIS and GPS

PSO2. To impart Knowledge on Crop simulation models

PSO3. To impart Knowledge on Remote sensing in Precision Farming.

COURSE OUTCOMES	BLOOM'S TAXONOMY
	LEVEL

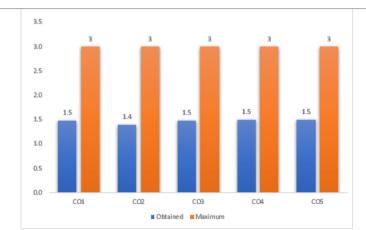
CO1	Explains the concepts of geo-informatics in precision agriculture	II (UNDERSTAND)
CO2	Illustrates GIS data modeling and graphic representation of spatial data	IV (ANALYSE)
CO3	Analyses Remote sensing and Global positioning system (GPS), concepts and application in Agriculture	IV (ANALYSE)
CO4	Distinguish Crop Simulation Models	II (UNDERSTAND)
CO5	Classify nano- particles and their applications in agriculture	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	Н		Н						Н		Н	
C02	Н		Н						Н		Н	
C03	Н		Н						Н		Н	
C04	Н		Н						Н		Н	
C05	Н		Н						Н		Н	

H: Highly Supportive

S: Supportive



co	midexam1 midexam2		l exam 2	group discussion		assignment		viva		Attendence			External Exam				
		Attainment	pass%	Attainment		Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	co wise internal		Attainment	co wise external	co wise total
	pass%	level	pass/.	level	pass%	level	pass/.	level	pass/.	level	pass/.	level	average	pass%	level	average	average
CO1	84.3	2.0			77.5	2.0	100.0	3.0	100.0	3.0	66.3	1.0	2.2	68.5	1.0	1.0	1.5
CO2	84.3	2.0			77.5	2.0			100.0	3.0	66.3	1.0	2.0	68.5	1.0	1.0	1.4
CO3	84.3	2.0	98.9	3.0	77.5	2.0			100.0	3.0	66.3	1.0	2.2	68.5	1.0	1.0	1.5
CO4			98.9	3.0	77.5	2.0			100.0	3.0	66.3	1.0	2.3	68.5	1.0	1.0	1.5
CO5			98.9	3.0	77.5	2.0			100.0	3.0	66.3	1.0	2.3	68.5	1.0	1.0	1.5

AVERAGE	AVERAGE
1	Alatzvate



WISDO.

- 34 1

SERVIC



OUTCOME	PO1		PO2	P	D3	PO4	PO5	P06	PO7	PO8
CO1	H 1.4	48		Н	1.48					
CO2	H 1.	.4		Н	1.4					
CO3	H 1.4	48		Н	1.48					
CO4	H 1.	.5		Н	1.5					
CO5	H 1.	.5		Н	1.5					
AVERAGE OF COS FOR POS	1.472			1.4	172					
AVERAGE OF POS	1.4	704			1.4704					
AVERAGI	E						1.4704			

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: POST HARVEST MANAGEMENT AND VALUE ADDITION OF FRUITS AND VEGETABLES

COURSE CODE: AG20617

CREDITS: 1

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1: To impart Knowledge on processing of various foods

PSO2: To impart Knowledge on preservation techniques of various foods

PSO3: To impart basic knowledge on Pre-& post-harvest factors affecting the quality and post- harvest shelf life of fruits and vegetables

COURSE OUTCOMES

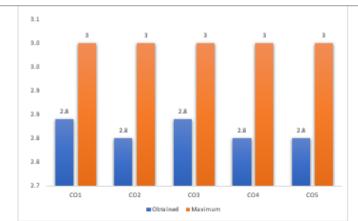
CO1	Define food processing and preservation, Classify foods for processing and preservation	II (UNDERSTAND)
CO2	List out methods of food preservation	IV (ANALYSE)
CO3	Explain processing methods of cereals, millets and legumes	IV (ANALYSE)
CO4	Explain processing methods of fruits and vegetables and oilseeds	II (UNDERSTAND)
CO5	Explain processing methods of spices and plantation crops	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	Н		Н						Н		Н	
C02	Н		Н						Н		Н	
C03	Н		Н						Η		Η	
C04	Н		Н						Η		Η	
C05	Н		Н						Н		Н	

H: Highly Supportive

S: Supportive



co	mid exam 1 mid exam		d exam 2	group discussion		assignment		viva		Attendence			External Exam				
		Attainment		Attainment		Attainment		Attainment	Attainment	Attainment	nt pass%	Attainment c	co wise internal		Attainment	co wise external	co wise total
	pass%	level	pass%	level	pass%	level pass?	pass%	level P	pass%	level		level	average	pass%	level	average	average
CO1	96.6	3.0			100.0	3.0	100.0	3.0	100.0	3.0	70.8	1.0	2.6	88.8	3.0	3.0	2.8
CO2	96.6	3.0			100.0	3.0			100.0	3.0	70.8	1.0	2.5	88.8	3.0	3.0	2.8
CO3	96.6	3.0	95.5	3.0	100.0	3.0			100.0	3.0	70.8	1.0	2.6	88.8	3.0	3.0	2.8
CO4			95.5	3.0	100.0	3.0			100.0	3.0	70.8	1.0	2.5	88.8	3.0	3.0	2.8
CO5			95.5	3.0	100.0	3.0			100.0	3.0	70.8	1.0	2.5	88.8	3.0	3.0	2.8

AVERAGE	AVERAGE
3	2.816





OUTCOME	P	01	PO2	P	03	PO4	PO5	PO6	PO7	PO8		
CO1	н	2.84		н	2.84							
CO2	н	2.8		н	2.8							
CO3	н	2.84		н	2.84							
CO4	н	2.8		н	2.8							
CO5	н	2.8		н	2.8							
AVERAGE OF COS FOR POS	2.8	816		2.8	316							
AVERAGE OF POS		2.8112			2.8112							
AVERAGE		2.8112										

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: FARMING SYSTEMS AND ORGANIC FARMING FOR SUSTAINABLE AGRICULTURE

COURSE CODE: AG20601

CREDITS: 2

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1: Students will be able to gain comprehensive knowledge on the fundamental principles of farming systems and organic farming.

Programme Outcomes Program Specific															
			Pi	rogramme	Outcome	S				Pro	gram Specif	ïc			
C				0					outcomes						
Course											outcomes				
outcomes															
outcomes	DO1	DOA	DOA	DO (DO	DO	Dee							
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4			
1	Н		Η						Н		Η				
1			••												
2	S		Н						Н		Η				
2	5		11						11		11				
3	Η		Η						Η		Η				
		<u> </u>	1				1			I					

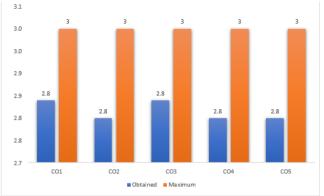
4	Н	Н			Н	Η	
5	Н	Н			Η	S	

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8			
CO1	Н 2.84		Н 2.84								
CO2	H 2.8		Н 2.8	Н 2.8			H 2.8				
CO3	Н 2.84		Н 2.84	H 2.84	Н 2.84		H 2.84				
CO4	H 2.8		Н 2.8	Н 2.8			H 2.8				
CO5	H 2.8		Н 2.8	H 2.8				H 2.8			
AVERAGE OF COS FOR POS	2.816		2.816	2.81	2.84		2.813333333	2.8			
AVERAGE OF POS	AVERAGE OF POS 2.8112		2.8112	2.81	2.84		2.81333	2.8			
AVERAGE		2.814288889									





CO	mid exam 1 mid exam 2		d exam 2	group discussion		assignment		viva		Attendence			External Exam				
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	co wise internal average	pass%	Attainment level	co wise external average	co wise total average
CO1	98.9	3.0			100.0	3.0	100.0	3.0	100.0	3.0	70.8	1.0	2.6	93.3	3.0	3.0	2.8
CO2	98.9	3.0			100.0	3.0			100.0	3.0	70.8	1.0	2.5	93.3	3.0	3.0	2.8
CO3	98.9	3.0	98.9	3.0	100.0	3.0			100.0	3.0	70.8	1.0	2.6	93.3	3.0	3.0	2.8
CO4			98.9	3.0	100.0	3.0			100.0	3.0	70.8	1.0	2.5	93.3	3.0	3.0	2.8
CO5			98.9	3.0	100.0	3.0			100.0	3.0	70.8	1.0	2.5	93.3	3.0	3.0	2.8

AVERAGE	AVERAGE
3	2.816

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: ENVIRONMENTAL STUDIES AND GENDER SENSITIZATION

COURSE CODE: ES23301

CREDITS: 3

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or Pos:

PO1: Students will gain knowledge on environmental aspects and involve themselves in acquiring a sustainable environment.

PO2: Students will be sensitized towards gender issues in the society and the laws enforced for their protection.

	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Understand the importance of Environmental education, conservation of natural resources & understand the importance of ecosystems and biodiversity	II (UNDERSTAND)
CO2	Understand the pollution problems and apply the environmental science knowledge on	IV (ANALYSE)

	solid waste management, disaster management	
CO3	Apply the environmental science knowledge to improve the resources Evaluate and understand the sustainable environmental conditions and control methods.	IV (ANALYSE)
CO4	Identify the interactions and inter sections of identities (e.g., gender, race, ethnicity class, sexuality, and so on) and assess the ways in which they contribute to instances of privilege and power dynamics across cultures, space, and time. And their problems	II (UNDERSTAND)
CO5	Understand the gender problems and ways of addressing them, including interactions across local to global scales in communities and overcome inequalities with legislation	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes			Pr	ogramme	Program Specific outcomes								
	PO1	PO2	РОЗ	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4	
1	Н		Н						Н		Н		

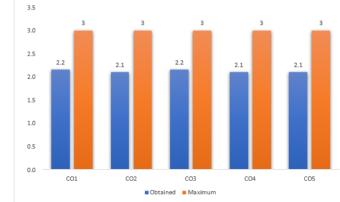
ſ	2	S	Н			Н	Н	
	3	Н	Η			Н	Н	
	4	Н	Η			Н	Н	
	5	Н	Η			Н	S	
							1	

H: Highly Supportive

S: Supportive



OUTCOME	PC	01	PO2	Р	03	F	PO4	Р	05	PO6	F	207	P	08
CO1	н	2.16		н	2.16									
CO2	н	2.1		н	2.1	н	2.1				н	2.1		
CO3	н	2.16		н	2.16	н	2.16	н	2.16		н	2.16		
CO4	н	2.1		н	2.1	н	2.1				н	2.1		
CO5	н	2.1		н	2.1	н	2.1						н	2.1
AVERAGE OF COS FOR POS	2.1	24		2.	124	2.	.115	2	.16		2	.12	1	2.1
AVERAGE OF POS		2.1168			2.1168		2.115		2.16			2.12		2.1
AVERAGE							2	.1214333	33					





со	mic	mid exam 1 mid exam 2 group discussion assignmen		signment	viva Attender			ttendence									
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	co wise internal average	pass%	Attainment level	co wise external average	co wise total average
CO1	96.7	3.0			100.0	3.0	100.0	3.0	98.9	3.0	57.6	0.0	2.4	78.3	2.0	2.0	2.2
CO2	96.7	3.0			100.0	3.0			98.9	3.0	57.6	0.0	2.3	78.3	2.0	2.0	2.1
CO3	96.7	3.0	96.7	3.0	100.0	3.0			98.9	3.0	57.6	0.0	2.4	78.3	2.0	2.0	2.2
CO4			96.7	3.0	100.0	3.0			98.9	3.0	57.6	0.0	2.3	78.3	2.0	2.0	2.1
CO5			96.7	3.0	100.0	3.0			98.9	3.0	57.6	0.0	2.3	78.3	2.0	2.0	2.1

AVERAGE	AVERAGE
2	2.124

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: PRINCIPLES OF PLANT PATHOLOGY

COURSE CODE: AG18104

CREDITS: 2

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental

context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organisation.

COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL

CO1	Understand the Epidemiology and Diagnosis of Plant Diseases	II (UNDERSTAND)
CO2	Understand the principle of exclusion and avoidance	IV (ANALYSE)
CO3	Understand the principles of eradication of seed and planting material	III (APPLY)
CO4	Explain the principles of plant protection	IV (ANALYSE)
CO5	Analyse the biotechnological aspects in crop protection	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes				Progra Outco							Program Specific outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	P07	P08	PSO1	PSO2	PSO3	PSO4	
1	Н		Н						Н		Н		

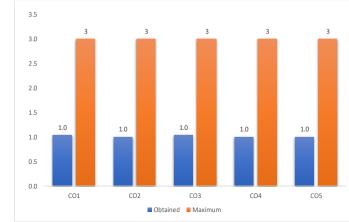
2	Η	Н			Η	Η	
3	H	Н			Η	Η	
4	Н	Н			Н	Н	
5	Н	Н			Н	Η	

H: Highly Supportive

S: Supportive



OUTCOME	P	01	PO2	Р	03	PO4	PO5	PO6	PO7	PO8
CO1	Н	1.04		Н	1.04					
CO2	Н	1		Н	1					
CO3	Н	1.04		Н	1.04					
CO4	Н	1		Н	1					
CO5	Н	1		Н	1					
AVERAGE OF COS FOR POS	1.0	016		1.	016					
AVERAGE OF POS		1.0112			1.0112					
AVERAGE							1.0112			





со	mid	exam 1	mi	d exam 2	grou	p discussion	as	signment		viva	ļ A	Attendence			External	Exam	
	pass%	Attainment level	pass%	Attainment level	co wise internal average	pass%	Attainment level	co wise external average	co wise total average								
CO1	100.0	3.0			100.0	3.0	100.0	3.0	100.0	3.0	70.7	1.0	2.6	19.6	0.0	0.0	1.0
CO2	100.0	3.0			100.0	3.0			100.0	3.0	70.7	1.0	2.5	19.6	0.0	0.0	1.0
CO3	100.0	3.0	92.4	3.0	100.0	3.0			100.0	3.0	70.7	1.0	2.6	19.6	0.0	0.0	1.0
CO4			92.4	3.0	100.0	3.0			100.0	3.0	70.7	1.0	2.5	19.6	0.0	0.0	1.0
CO5			92.4	3.0	100.0	3.0			100.0	3.0	70.7	1.0	2.5	19.6	0.0	0.0	1.0

AVERAGE	AVERAGE
0	1.016

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: INTRODUCTION TO PLANT PATHOGENS

COURSE CODE: AG18104

CREDITS: 2

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

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PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental

context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organisation.

COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL

CO1	Illustrates pathogenic fungi and types of reproduction in fungi	II (UNDERSTAND)
CO2	Classify Kingdom Fungi into phylum, sub phylum and orders	IV (ANALYSE)
CO3	Recognizes phylum Ascomycota and Basidiomycota with examples	III (APPLY)
CO4	Differentiates Rust, Smut and Bunt Fungi	IV (ANALYSE)
CO5	Illustrates various plant parasitic viruses and nematodes	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes				Progra Outco			Program Specific outcomes						
	PO1	PO2	PO3	PO4	PO5	P08	PSO1	PSO2	PSO3	PSO4			
1	H		Н						Н		Н		

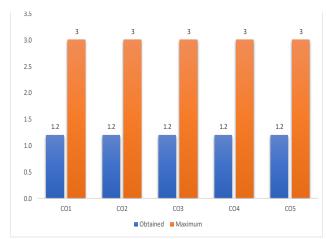
2	Н	H			Н	Η	
3	Н	Н			Н	Н	
4	Η	Н			Н	Н	
5	Н	Н			Н	Н	

H: Highly Supportive

S: Supportive



OUTCOME	PC	01	PO2	PO	3	PO4	PO5	PO6	PO7	PO8
CO1	Н	1.2		н	1.2					
CO2	н	1.2		н	1.2					
CO3	н	1.2		н	1.2					
CO4	Н	1.2		н	1.2					
CO5	Н	1.2		н	1.2					
AVERAGE OF COS FOR POS	1.	.2		1.	2					
AVERAGE OF POS		1.2			1.2					
AVERAGE	AVERAGE									





со	mid	exam 1	mi	mid exam 2 group discussion		ıp discussion	assignment		viva		Attendence			External Exam			
	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	nass%	Attainment level	co wise internal	pass%	Attainment	co wise external	co wise total
	pu3370	level	pa3370	level	pa3370	level	pa3370	level	pa3370	level	pu3370		average	pa3370	level	average	average
C01	99.0	3.0			100.0	3.0	100.0	3.0	98.0	3.0	90.2	3.0	3.0	7.8	0.0	0.0	1.2
CO2	99.0	3.0			100.0	3.0			98.0	3.0	90.2	3.0	3.0	7.8	0.0	0.0	1.2
CO3	99.0	3.0	100.0	3.0	100.0	3.0			98.0	3.0	90.2	3.0	3.0	7.8	0.0	0.0	1.2
CO4			100.0	3.0	100.0	3.0			98.0	3.0	90.2	3.0	3.0	7.8	0.0	0.0	1.2
CO5			100.0	3.0	100.0	3.0			98.0	3.0	90.2	3.0	3.0	7.8	0.0	0.0	1.2

AVERAGE	AVERAGE
0	1.2

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSETITLE: PRODUCTION TECHNOLOGY OF VEGETABLES AND SPICES

COURSE CODE: AG19308

CREDITS: 1

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

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context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Life long learning: recognize the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organisation.

COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
Describe various production techniques in Solanaceous vegetables.	II (UNDERSTAND)
Apply various cultural operations to produce cruciferous and leguminous vegetables	IV (ANALYSE)
Explain different cultivation practices in Cole, bulb and root crops	II (UNDERSTAND)
Explain different cultivation practices in tuber crops, leafy vegetables and perennial vegetables	III (APPLY)
Explain different cultivation practices in Spice crops.	II (UNDERSTAND)
	Describe various production techniques in Solanaceous vegetables. Apply various cultural operations to produce cruciferous and leguminous vegetables Explain different cultivation practices in Cole, bulb and root crops Explain different cultivation practices in tuber crops, leafy vegetables and perennial vegetables

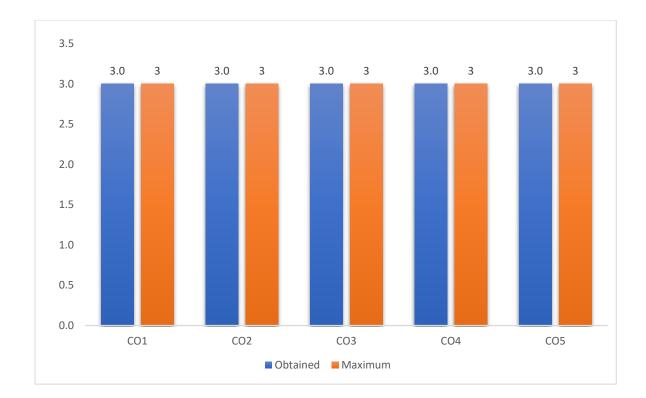
TABLE 1: CO, PO, PSO MAPPING

Course outcomes]	Programm	ne Outcom	nes			Program Specific outcomes					
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	P07	P08	PSO1	PSO2	PSO3	PSO4		
1	H		H						H		Н			
2	H		H						H		H			
3	Н		H						H		H			
4	H		H						H		Н			
5	Н		H						Н		Н			

H: Highly Supportive

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03
C01	Н		Н						Н		Н
C02	Н		Н						Н		Н
C03	Н		Н						Н		Н
C04	H		Н						Н		Н
C05	H		Н						Н		Н

H: Highly Supportive



со	mid exam 1	mid exam 2	group discussion	assignment	viva	Attendence	External Exam

	pass%	Attainment level	co wise internal average	pass%	Attainment level	co wise external average										
CO1	87.4	3.0			98.9	3.0	98.9	3.0	100.0	3.0	100.0	3.0	3.0	95.8	3.0	3.0
CO2	87.4	3.0			98.9	3.0			100.0	3.0	100.0	3.0	3.0	95.8	3.0	3.0
CO3	87.4	3.0	97.9	3.0	98.9	3.0			100.0	3.0	100.0	3.0	3.0	95.8	3.0	3.0
CO4			97.9	3.0	98.9	3.0			100.0	3.0	100.0	3.0	3.0	95.8	3.0	3.0
CO5			97.9	3.0	98.9	3.0			100.0	3.0	100.0	3.0	3.0	95.8	3.0	3.0

AVERAG

BSC (HONS)AGRICULTURE MANURES, FERTILIZERS AND SOIL FERTILITY MANAGEMENT Subject code: AG19403

Course outcomes:

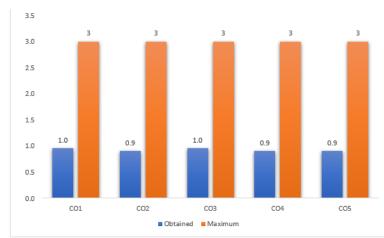
- Define and list out macro and micronutrient
- Differentiate and Classify Manures and Fertilizers and different composting methods
- Explain characteristics and manufacturing process of nitrogenous, phosphatic and potassic fertilizers.
- Differentiateand classify complex, mixed and bio-fertilizers

Compare and judge various methods of soil fertility evaluation

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H		H	S			S	S		S		H
C02	H		H	H			H	S		H		H
C03	H		H	H	H		H	S		H		H
C04	H		H	H	S		H	S		H		S
C05	H		H	H	S		S	H		H		Н

H: Highly Supportive S: Supportive





со	mid	exam 1	mi	mid exam 2		group discussion		assignment		viva		ttendence			External	Exam	
	0/	Attainment		Attainment		Attainment	Attainment	Attainment	pass%	Attainment	0/	Attainment level	co wise internal		Attainment	co wise external	co wise total
	pass%	level	pass%	level	pass%	level	pass%	level	vel pass//	level	pass%	Attainmentiever	average	pass%	level	average	average
CO1	100.0	3.0			100.0	3.0	100.0	3.0	100.0	3.0	55.4	0.0	2.4	45.7	0.0	0.0	1.0
CO2	100.0	3.0			100.0	3.0			100.0	3.0	55.4	0.0	2.3	45.7	0.0	0.0	0.9
CO3	100.0	3.0	100.0	3.0	100.0	3.0			100.0	3.0	55.4	0.0	2.4	45.7	0.0	0.0	1.0
CO4			100.0	3.0	100.0	3.0			100.0	3.0	55.4	0.0	2.3	45.7	0.0	0.0	0.9
CO5			100.0	3.0	100.0	3.0			100.0	3.0	55.4	0.0	2.3	45.7	0.0	0.0	0.9

AVERAGE	AVERAGE
0	0.924

BSC (HONS)AGRICULTURE

OUTCOME	PO1	PO2	P	03	F	PO4	PO5	PO6	PO7			PO8
CO1	Н 0.96		н	0.96								
CO2	Н 0.9		н	0.9	н	0.9			н	0.9		
CO3	Н 0.96		н	0.96	н	0.96	Н 0.96		Н	0.96		
CO4	Н 0.9		н	0.9	н	0.9			н	0.9		
CO5	Н 0.9		н	0.9	н	0.9					н	0.9
AVERAGE OF COS FOR POS	0.924	0.924		0.924		.915	0.96		0.92			0.9
AVERAGE OF POS	0.9168		0.9168			0.915	0.96		0.92			0.9
AVERAGE		0.921433333										



FUNDAMENTALS OF SOIL SCIENCE

Subject Code: AG19205

COURSE OUTCOMES:

- Defines soil and describes different soil forming processes, explains soil profile and differentiates surface soil and subsurface soil.
- Explain different Physical properties of soil and their influence on crop growth.
- Explain different chemical and biological properties of soil and its importance in agriculture.

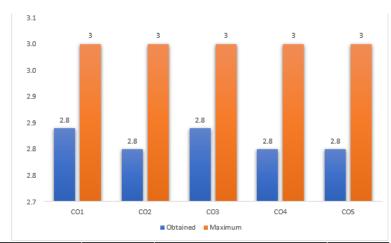
Differentiates and explains role of organic matter and humus. Describes carbon cycle and C:N ratio.

• Classify different soil groups of India, Telangana and A.P.

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H		H	S			S	S		S		H
C02	H		H	H			H	S		Н		H
C03	H		H	H	H		H	S		Н		H
C04	H		H	H	S		H	S		Н		S
C05	H		H	Н	S		S	H		H		Н

H: Highly Supportive S: Supportive





CO	mid	exam 1	mi	d exam 2	grou	p discussion	as	signment		viva	A	ttendence			External	Exam	
	pacc0/	Attainment	pass%	Attainment	pass%	Attainment	pacc%	Attainment	pass%	Attainment	pass%	Attainment level	co wise internal	pacc ⁰ /	Attainment	co wise external	co wise total
	pass%	level	pass70	level	pass70	level	pass%	level	pass70	level	pass70	Actainment level	average	pass%	level	average	average
CO1	100.0	3.0			100.0	3.0	100.0	3.0	100.0	3.0	72.0	1.0	2.6	87.0	3.0	3.0	2.8
CO2	100.0	3.0			100.0	3.0			100.0	3.0	72.0	1.0	2.5	87.0	3.0	3.0	2.8
CO3	100.0	3.0	100.0	3.0	100.0	3.0			100.0	3.0	72.0	1.0	2.6	87.0	3.0	3.0	2.8
CO4			100.0	3.0	100.0	3.0			100.0	3.0	72.0	1.0	2.5	87.0	3.0	3.0	2.8
CO5			100.0	3.0	100.0	3.0			100.0	3.0	72.0	1.0	2.5	87.0	3.0	3.0	2.8

AVERAGE	AVERAGE
3	2.816

Subject code: AG 19307

PRINCIPLES OF FOOD SCIENCE AND NUTRITION

BSC(HONS)AGRICULTURE

OUTCOME	PO1		PO2	Р	O3	P	04	P	05	PO6	Р	07	I	PO8
CO1	н	2.84		н	2.84									
CO2	н	2.8		н	2.8	н	2.8				н	2.8		
CO3	Н	2.84		Н	2.84	Н	2.84	н	2.84		Н	2.84		
CO4	н	2.8		Н	2.8	Н	2.8				Н	2.8		
CO5	Н	2.8		Н	2.8	Н	2.8						Н	2.8
AVERAGE OF COS FOR POS	2.816			2.	816	2	.81	2.	84		2.813	333333		2.8
AVERAGE OF POS	2	2.8112			2.8112		2.81		2.84			2.81333		2.8
AVERAGE		2.814288889												



Course outcomes:

Define food and explain the composition of food

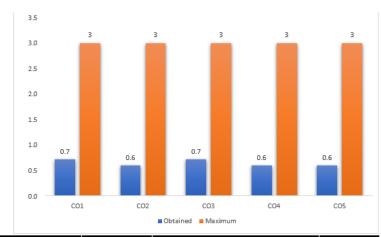
- Classify vitamins, minerals and other compounds
- Explain the concept of food microbiology

Explain preservation of food by various methods

• Analyze nutritional disorders

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H		H	S			S	S		S		H
C02	H		H	H			H	S		H		H
C03	H		H	H	H		H	S		H		H
C04	H		Н	Н	S		H	S		H		S
C05	H		Н	Н	S		S	H		H		H

H: Highly Supportive S: Supportive





CO	mid	exam 1	mi	d exam 2	grou	ip discussion	as	ssignment		viva	A	ttendence			External	Exam	
	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment level	co wise internal	pass%	Attainment	co wise external	co wise total
	passzo	level	passzo	level	passzo	level	passzo	level	passzo	level	passio	Accuminent level	average	passio	level	average	average
CO1	96.9	3.0			97.9	3.0	97.9	3.0	48.5	0.0	64.9	0.0	1.8	41.2	0.0	0.0	0.7
CO2	96.9	3.0			97.9	3.0			48.5	0.0	64.9	0.0	1.5	41.2	0.0	0.0	0.6
CO3	96.9	3.0	97.9	3.0	97.9	3.0			48.5	0.0	64.9	0.0	1.8	41.2	0.0	0.0	0.7
CO4			97.9	3.0	97.9	3.0			48.5	0.0	64.9	0.0	1.5	41.2	0.0	0.0	0.6
CO5			97.9	3.0	97.9	3.0			48.5	0.0	64.9	0.0	1.5	41.2	0.0	0.0	0.6

AVERAGE	AVERAGE
0	0.648

Subject code: AG20508.

PROBLEMATIC SOILS AND THEIR MANAGEMENT

BSC (HONS)AGRICULTURE

OUTCOME	PC	D1	PO2	PO3		PO4		PO5		PO6	PO7		P	08
CO1	Н	0.72		Н	0.72									
CO2	Н	0.6		Н	0.6	Н	0.6				Н	0.6		
CO3	Н	0.72		Н	0.72	н	0.72	н (0.72		Н	0.72		
CO4	Н	0.6		Н	0.6	Н	0.6				Н	0.6		
CO5	Н	0.6		Н	0.6	Н	0.6						Н	0.6
AVERAGE OF COS FOR POS	OS 0.648			0.648		0.63		0.72			0.64		C).6
AVERAGE OF POS	RAGE OF POS 0.6336			0.6336			0.63	(0.72			0.64		0.6
AVERAGE		0.642866667												



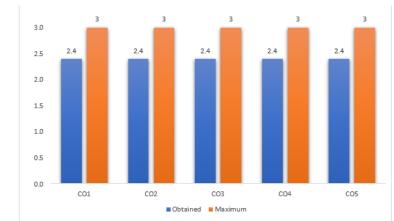
Course outcomes:

- To understand the formation of problematic soils
- To understand the quality of irrigation water
- To formulate various management methods to reclaim problem soils
- To evaluate quality of irrigation water and management methods
- Application of technology to evaluate problem soils

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H		H	S			S	S		S		H
C02	H		H	H			H	S		H		H
C03	H		H	H	H		H	S		H		H
C04	H		H	H	S		H	S		H		S
C05	H		H	H	S		S	H		H		H

H: Highly Supportive S: Supportive

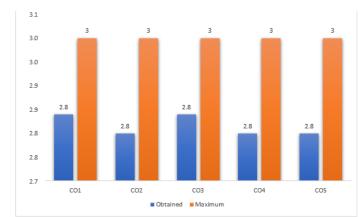




со	mid	exam 1	mi	mid exam 2 group discussion		assignment		viva		Attendence				External			
	D 2550/	Attainment	D D C C ()	Attainment	D D C C ()	Attainment	no.cc0/	Attainment	D D C C (/	Attainment	D D C C ()	Attainment level	co wise internal	pass%	Attainment	co wise external	co wise total
	pass%	level	pass%	level	pass%	level	pass%	level	pass%	level	pass%		average	pass%	level	average	average
CO1	98.9	3.0			98.9	3.0	98.9	3.0	98.9	3.0	91.4	3.0	3.0	77.4	2.0	2.0	2.4
CO2	98.9	3.0			98.9	3.0			98.9	3.0	91.4	3.0	3.0	77.4	2.0	2.0	2.4
CO3	98.9	3.0	98.9	3.0	98.9	3.0			98.9	3.0	91.4	3.0	3.0	77.4	2.0	2.0	2.4
CO4			98.9	3.0	98.9	3.0			98.9	3.0	91.4	3.0	3.0	77.4	2.0	2.0	2.4
CO5			98.9	3.0	98.9	3.0			98.9	3.0	91.4	3.0	3.0	77.4	2.0	2.0	2.4

AVERAGE	AVERAGE
2	2.4

OUTCOME	PO1		PO2 PC		203	PO4		PO5		PO6	PO7		P	08
CO1	Н	2.4		Н	2.4									
CO2	н	2.4		Н	2.4	Н	2.4				Н	2.4		
CO3	н	2.4		Н	2.4	Н	2.4	Н	2.4		Н	2.4		
CO4	н	2.4		Н	2.4	Н	2.4				Н	2.4		
CO5	Н	2.4		Н	2.4	Н	2.4						н	2.4
AVERAGE OF COS FOR POS 2.4		.4			2.4	2	2.4	2	.4			2.4	2	2.4
AVERAGE OF POS		2.4			2.4	2.4			2.4			2.4		2.4
AVERAGE								2.4						





со	mid	exam 1	mi	d exam 2	n 2 group discussion		assignment		viva		Attendence			Exte		Exam	
	p.o.c.c0/	Attainment	p.o.c.c0/	Attainment	pacc0/	Attainment	poss0/	Attainment	pass%	Attainment	pacc0/	Attainment level	co wise internal	poss0/	Attainment	co wise external	co wise total
	pass%	level	pass%	level	pass%	level	pass%	level	pass ₇₀	level	pass%	Attainmentiever	average	pass%	level	average	average
CO1	100.0	3.0			100.0	3.0	100.0	3.0	100.0	3.0	72.0	1.0	2.6	87.0	3.0	3.0	2.8
CO2	100.0	3.0			100.0	3.0			100.0	3.0	72.0	1.0	2.5	87.0	3.0	3.0	2.8
CO3	100.0	3.0	100.0	3.0	100.0	3.0			100.0	3.0	72.0	1.0	2.6	87.0	3.0	3.0	2.8
CO4			100.0	3.0	100.0	3.0			100.0	3.0	72.0	1.0	2.5	87.0	3.0	3.0	2.8
CO5			100.0	3.0	100.0	3.0			100.0	3.0	72.0	1.0	2.5	87.0	3.0	3.0	2.8

AVERAGE	AVERAGE
3	2.816

BSC (HONS)AGRICULTURE

SOIL, WATER, PLANT AND SEED TESTING

Course code: AG22510B

COURSE OUTCOMES:

• Analyses chemical properties of soil and their importance on Plant growth

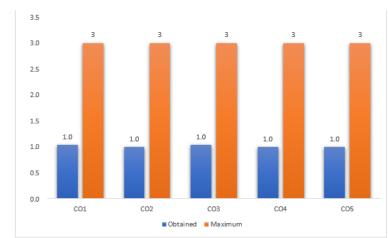
Analyses physical properties of soil and their importance on Plant growth

- Interprets analytical data of various chemical and physical properties of soils
- Demonstrates DRIS methods and its importance
- Explains significance of seed and its characters on crop productivity

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H		H	S			S	S		S		H
C02	H		H	H			H	S		Н		H
C03	H		H	H	H		H	S		H		Н
C04	Н		H	H	S		H	S		H		S
C05	Н		Н	Н	S		S	н		H		Н

H: Highly Supportive S: Supportive





	CO	mid	exam 1	mi	d exam 2	grou	p discussion	as	signment		viva	Attendence		External Exam			Exam	
		pass0/	Attainment	10.055 ⁰ /	Attainment	D 2 5 5 0 /	Attainment	D 2550/	Attainment	p.o.c.0/	Attainment	poss0/	Attainment level	co wise internal	D 2 5 5 0 /	Attainment	co wise external	co wise total
		pass%	level	pass%	level	pass%	level	pass%	level	pass%	level	pass%	Attainmentiever	average	pass%	level	average	average
C	:01	92.3	3.0			98.1	3.0	98.1	3.0	98.1	3.0	67.3	1.0	2.6	61.5	0.0	0.0	1.0
C	:02	92.3	3.0			98.1	3.0			98.1	3.0	67.3	1.0	2.5	61.5	0.0	0.0	1.0
C	03	92.3	3.0	96.2	3.0	98.1	3.0			98.1	3.0	67.3	1.0	2.6	61.5	0.0	0.0	1.0
C	:04			96.2	3.0	98.1	3.0			98.1	3.0	67.3	1.0	2.5	61.5	0.0	0.0	1.0
C	:05			96.2	3.0	98.1	3.0			98.1	3.0	67.3	1.0	2.5	61.5	0.0	0.0	1.0

AVERAGE	AVERAGE
0	1.016



OUTCOME	PC	01	PO2	Р	03	P	04	F	PO5	PO6		PO7	PC	8
CO1	Н	1.04		Н	1.04									
CO2	н	1		Н	1	Н	1				Н	1		
CO3	н	1.04		Н	1.04	Н	1.04	Н	1.04		н	1.04		
CO4	н	1		н	1	н	1				н	1		
CO5	н	1		Н	1	Н	1						н	1
AVERAGE OF COS FOR POS	1.0	016		1.	016	1	.01	1	04		1.01	333333	1	
AVERAGE OF POS	AVERAGE OF POS 1.0112			1.0112			1.01		1.04			1.01333		1
AVERAGE	AVERAGE 1.014288889													

Course outcome mapping MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES: COURSE TITLE: Principles of Seed Technology and IPR

COURSE CODE: AG19402

CREDITS: 2

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental

context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organisation.

	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Describes concepts of seed quality and genetic purity	II (UNDERSTAND)
CO2	Interpret the varietal and hybrid seed production techniques of various crops	IV (ANALYSE)
CO3	Generalize various techniques of hybrid seed production	II (UNDERSTAND)
CO4	Explains steps in seed processing and field inspection	IV (ANALYSE)

CO5	Judges IPRs and their relevance in seed industry	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

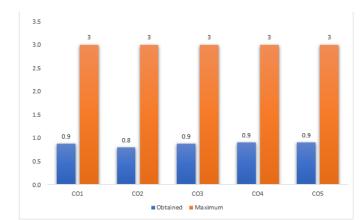
Course outcomes			I	Programm	e Outcom	Program Specific outcomes							
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4	
1	Н		H						Н		Н		
2	S		H						Н		Н		
3	H		H						Н		H		
4	Н		Н						Н		Н		
5	Н		Н						H		S		

H: Highly Supportive

S: Supportive



OUTCOME	PO	D1	PO2	Р	O3		PO4	PO	5	PO6		P07	P	°O8
CO1	н	0.88		н	0.88									
CO2	н	0.8		Н	0.8	н	0.8				н	0.8		
CO3	Н	0.88		Н	0.88	Н	0.88	Н	0.88		Н	0.88		
CO4	н	0.9		н	0.9	н	0.9				н	0.9		
CO5	н	0.9		н	0.9	н	0.9						Н	0.9
AVERAGE OF COS FOR POS	0.8	372		0.	872).87	0.8	8		().86	(0.9
AVERAGE OF POS	GE OF POS 0.8704		0.8704			0.87		0.88		0.86			0.9	
AVERAGE		0.875133333												





со	mid	exam 1	mi	d exam 2	grou	p discussion	as	signment		viva	A	ttendence			External		
		Attainment		Attainment		Attainment		Attainment		Attainment		Attainment level	co wise internal		Attainment	co wise external	co wise total
	pass%	level	pass%	level	pass%	level	pass%	level	pass%	level	pass%	Attainmentiever	average	pass%	level	average	average
CO1	84.8	2.0			100.0	3.0	100.0	3.0	100.0	3.0	57.6	0.0	2.2	55.4	0.0	0.0	0.9
CO2	84.8	2.0			100.0	3.0			100.0	3.0	57.6	0.0	2.0	55.4	0.0	0.0	0.8
CO3	84.8	2.0	97.8	3.0	100.0	3.0			100.0	3.0	57.6	0.0	2.2	55.4	0.0	0.0	0.9
CO4			97.8	3.0	100.0	3.0			100.0	3.0	57.6	0.0	2.3	55.4	0.0	0.0	0.9
CO5			97.8	3.0	100.0	3.0			100.0	3.0	57.6	0.0	2.3	55.4	0.0	0.0	0.9

AVERAGE	AVERAGE
0	0.872

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: COMMERCIAL PLANT BREEDING

COURSE CODE: AG205010B

CREDITS: 2

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental

context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

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PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organisation.

	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Understand the types of reproduction and pollination	II (UNDERSTAND)
CO2	Analyze the advances in hybrid seed production of cereals	IV (ANALYSE)
CO3	Analyze the advances in hybrid seed production of oil seeds and pulses	IV (ANALYSE)
CO4	Appraise the alternate methods of developing a line	II (UNDERSTAND)

CO5	Understand the principles of seed quality	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

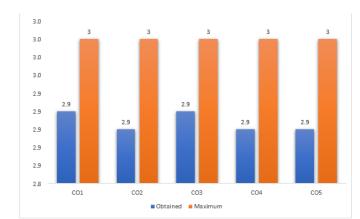
Course outcomes]	Programm	e Outcom	Program Specific outcomes							
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4	
1	Н		Н						Н		Н		
2	S		H						Н		Н		
3	H		H						H		H		
4	Н		Н						H		Н		
5	Н		Н						Н		S		

H: Highly Supportive

S: Supportive



OUTCOME	PC	01	PO2	P	203	Р	04	P	05	PO6	F	PO7	Р	08
CO1	н	2.92		Н	2.92									
CO2	н	2.9		н	2.9	н	2.9				н	2.9		
CO3	н	2.92		Н	2.92	Н	2.92	Н	2.92		Н	2.92		
CO4	н	2.9		Н	2.9	Н	2.9				Н	2.9		
CO5	н	2.9		Н	2.9	Н	2.9						н	2.9
AVERAGE OF COS FOR POS	2.9	008		2.	.908	2.	905	2.	92		2.906	666667	2	2.9
AVERAGE OF POS		2.9056			2.9056		2.905		2.92			2.90667		2.9
AVERAGE							2	.90714444	4					





CO	mid	exam 1	mi	id exam 2	grou	up discussion	as	ssignment		viva	A	ttendence					
	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment level	co wise internal	pass%	Attainment	co wise external	co wise total
	pass70	level	pass70	level	pass70	level	pass70	level	pass70	level	pass70	Attainmentiever	average	pass70	level	average	average
CO1	95.9	3.0			100.0	3.0	100.0	3.0	100.0	3.0	77.6	2.0	2.8	91.8	3.0	3.0	2.9
CO2	95.9	3.0			100.0	3.0			100.0	3.0	77.6	2.0	2.8	91.8	3.0	3.0	2.9
CO3	95.9	3.0	98.0	3.0	100.0	3.0			100.0	3.0	77.6	2.0	2.8	91.8	3.0	3.0	2.9
CO4			98.0	3.0	100.0	3.0			100.0	3.0	77.6	2.0	2.8	91.8	3.0	3.0	2.9
CO5			98.0	3.0	100.0	3.0			100.0	3.0	77.6	2.0	2.8	91.8	3.0	3.0	2.9

AVERAGE	AVERAGE
3	2.908

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: FUNDAMENTALS OF PLANT BREEDING

COURSE CODE: AG19303

CREDITS: 2

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental

context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organisation.

	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Recognizes the benefits of plant breeding and crop genetic resources	II (UNDERSTAND)
CO2	Interpret the methods of breeding and to illustrate the methods	IV (ANALYSE)
CO3	Explain the importance of different breeding methods	II (UNDERSTAND)
CO4	Compare the methods of population improvement	IV (ANALYSE)

CC	05	Formulate special breeding methods	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

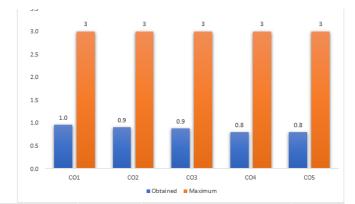
Course			I	Programm	e Outcom	Program Specific outcomes							
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4	
1	Н		Н						Н		Н		
2	S		Н						Н		Н		
3	H		H						H		Н		
4	Н		H						H		H		
5	Н		H						Н		S		

H: Highly Supportive

S: Supportive



OUTCOME	PC	D1	PO2	P	03	F	PO4	PC	5	PO6		P07	P	PO8
CO1	н	0.96		н	0.96									
CO2	н	0.9		Н	0.9	Н	0.9				н	0.9		
CO3	Н	0.88		н	0.88	Н	0.88	н	0.88		Н	0.88		
CO4	н	0.8		н	0.8	Н	0.8				Н	0.8		
CO5	Н	0.8		н	0.8	Н	0.8						Н	0.8
AVERAGE OF COS FOR POS	0.8	368		0.8	868	0.	.845	0.8	8		().86	(D.8
AVERAGE OF POS		0.8496			0.8496		0.845		0.88			0.86		0.8
AVERAGE							0	.84736666	7					





со	mid	exam 1	mi	d exam 2	grou	p discussion	as	signment		viva	A	ttendence			External		
	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	pace94	Attainment level	co wise internal	pass%	Attainment	co wise external	co wise total
	passio	level	hazzyo	level	passio	level	passio	level	hazzvo	level	hazzyo	Accommenterererer	average	passio	level	average	average
CO1	93.5	3.0			100.0	3.0	95.7	3.0	100.0	3.0	46.7	0.0	2.4	46.7	0.0	0.0	1.0
CO2	93.5	3.0			100.0	3.0			100.0	3.0	46.7	0.0	2.3	46.7	0.0	0.0	0.9
CO3	93.5	3.0	84.8	2.0	100.0	3.0			100.0	3.0	46.7	0.0	2.2	46.7	0.0	0.0	0.9
CO4			84.8	2.0	100.0	3.0			100.0	3.0	46.7	0.0	2.0	46.7	0.0	0.0	0.8
CO5			84.8	2.0	100.0	3.0			100.0	3.0	46.7	0.0	2.0	46.7	0.0	0.0	0.8

AVERAGE	AVERAGE
0	0.868

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: CROP IMPROVEMENT-1

COURSE CODE: AG20502

CREDITS: 2

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental

context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organisation.

	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Understand the objectives of breeding in different crops	II (UNDERSTAND)
CO2	Explain various approaches of hybrid seed production technology of different crops	IV (ANALYSE)
CO3	Identify origin and progenitors of different crops	II (UNDERSTAND)
CO4	Apply breeding methods for introgression of biotic stress	IV (ANALYSE)

C	CO5	Apply breeding methods for introgression of abiotic stress	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

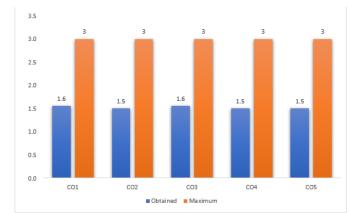
Course outcomes]	Programm	e Outcom	nes			Program Specific outcomes						
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4			
1	Н		Н						H		Н				
2	S		H						H		H				
3	Н		Н						Н		Н				
4	Н		H						H		H				
5	Н		H						Н		S				

H: Highly Supportive

S: Supportive



OUTCOME	P	01	PO2	P	03	F	PO4	PO5	5	PO6	F	PO7	Р	08
CO1	н	1.56		н	1.56									
CO2	н	1.5		Н	1.5	Н	1.5				Н	1.5		
CO3	н	1.56		н	1.56	Н	1.56	н	1.56		Н	1.56		
CO4	н	1.5		н	1.5	Н	1.5				Н	1.5		
CO5	н	1.5		н	1.5	Н	1.5						н	1.5
AVERAGE OF COS FOR POS	1.5	524		1.	524	1	.515	1.56	5		1	52	1	5
AVERAGE OF POS		1.5168			1.5168		1.515		1.56			1.52		1.5
AVERAGE							1	.521433333						





co	mid	exam 1	mi	d exam 2	grou	p discussion	as	signment		viva	A	ttendence			External	Exam	
	pocc0/	Attainment	pass%	Attainment	pass%	Attainment	poss?/	Attainment	pace0/	Attainment	poss0/	Attainment level	co wise internal	pass0/	Attainment	co wise external	co wise total
	pass%	level	pass ₇₀	level	pass ₇₀	level	pass%	level	pass%	level	pass%	Attainmentiever	average	pass%	level	average	average
CO1	88.3	3.0			97.9	3.0	90.4	3.0	98.9	3.0	44.7	0.0	2.4	72.3	1.0	1.0	1.6
CO2	88.3	3.0			97.9	3.0			98.9	3.0	44.7	0.0	2.3	72.3	1.0	1.0	1.5
CO3	88.3	3.0	93.6	3.0	97.9	3.0			98.9	3.0	44.7	0.0	2.4	72.3	1.0	1.0	1.6
CO4			93.6	3.0	97.9	3.0			98.9	3.0	44.7	0.0	2.3	72.3	1.0	1.0	1.5
CO5			93.6	3.0	97.9	3.0			98.9	3.0	44.7	0.0	2.3	72.3	1.0	1.0	1.5

AVERAGE	AVERAGE
1	1.524

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: MICROPROPAGATION

COURSE CODE: AG21510A

CREDITS: 2

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complexproblems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusionsusing first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental

context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organisation.

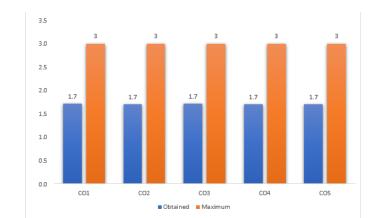
	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Recognizes the benefits of plant breeding and crop genetic resources Tissue culture techniques, micropropagation,	II (UNDERSTAND)
CO2	Interpret the methods of pollen culture, embryo culture, endosperm culture and illustrate the methods	IV (ANALYSE)
CO3	Explain the importance of artificial seed and synthetic seed production	II (UNDERSTAND)
CO4	Compare the methods of somatic hybridization.	IV (ANALYSE)

CO5	Formulate various methods of micropropagation	II (UNDERSTAND)

Course outcomes			I	Programm	e Outcom	ies			Program Specific outcomes						
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4			
1	H		H						H		H				
2	S		Н						Н		Н				
3	Н		H						Н		Н				
4	Н		H						H		Н				
5	Н		Н						Н		S				

H: Highly Supportive

S: Supportive





CO	mid	exam 1	mi	d exam 2	grou	p discussion	as	signment		viva	A	ttendence			External	Exam	
	0/	Attainment		Attainment	0/	Attainment	0/	Attainment		Attainment	0/	Attainment level	co wise internal	0/	Attainment	co wise external	co wise total
	pass%	level	pass%	level	pass%	level	pass%	level	pass%	level	pass%	Attainmentiever	average	pass%	level	average	average
CO1	86.4	3.0			100.0	3.0	100.0	3.0	100.0	3.0	79.5	2.0	2.8	75.0	1.0	1.0	1.7
CO2	86.4	3.0			100.0	3.0			100.0	3.0	79.5	2.0	2.8	75.0	1.0	1.0	1.7
CO3	86.4	3.0	97.7	3.0	100.0	3.0			100.0	3.0	79.5	2.0	2.8	75.0	1.0	1.0	1.7
CO4			97.7	3.0	100.0	3.0			100.0	3.0	79.5	2.0	2.8	75.0	1.0	1.0	1.7
CO5			97.7	3.0	100.0	3.0			100.0	3.0	79.5	2.0	2.8	75.0	1.0	1.0	1.7

AVERAGE	AVERAGE
1	1.708



OUTCOME	PC	01	PO2	Р	O3	ŀ	PO4	PO5	,	PO6	Р	07	P	08
CO1	н	1.72		н	1.72									
CO2	н	1.7		Н	1.7	Н	1.7				Н	1.7		
CO3	н	1.72		Н	1.72	Н	1.72	н	1.72		Н	1.72		
CO4	н	1.7		Н	1.7	Н	1.7				Н	1.7		
CO5	н	1.7		Н	1.7	Н	1.7						Н	1.7
AVERAGE OF COS FOR POS	1.7	708		1.	708	1.	.705	1.72			1.706	666667	1	.7
AVERAGE OF POS		1.7056			1.7056		1.705		1.72			1.70667		1.7
AVERAGE							1	.707144444						

PRODUCTION TECHNOLOGY OF FRUITS AND PLANTATION CROPS

Course Code: AG20506

COURSE OUTCOMES:

• Plan for laying out of orchard

- Identify problems in raising of Mango, Banana, Sapota crops
- Demonstrate the methods of planting and regulating flowering and fruiting in citrus, Guava, Papaya and pineapple, to select suitable training and pruning methods for Grape, Pomegranate and Ber.
- Demonstrate Production and processing of plantation crops.

PROGRAMME OUTCOMES BSC Or POs:

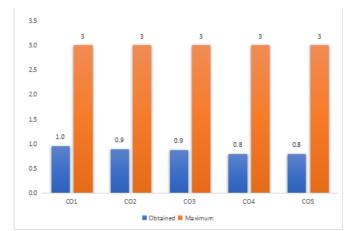
- PO1. Scientific Knowledge. Apply the knowledge of Science, Mathematics, Engineering& Technology fundamentals to solve the complex problems.
- PO2. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **PO3.Problem analysis:** Identify, formulate, research literature, and analyze complex scientific problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO4. Modern tool usage: Create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.
- PO5. Environment and sustainability: Understand the impact of professional science and technological solutions in societal and environmental

contexts and for sustainable development.

- PO6.Individual and team work: Function objectively as an individual and as a member in diverse teams.
- PO7. Communication: Communicate effectively on complex science & technology activities with society at large and able to write effective reports and documentation.
- PO8. Life-long learning: Recognise the need and ability to engage in independent and lifelong learning in the context of technological change.

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H		H						H		H	
C02	H		H						H		H	
C03	H		H						Η		H	
C04	H		H						H		H	
C05	H		H						H		H	

H: Highly Supportive S: Supportive





CO)	mid	exam 1	mi	d exam 2	group	p discussion	as	signment		viva	At	tendence			External	Exam	
			Attainment		Attainment		Attainment		Attainment		Attainment		Attainment	co wise internal		Attainment	co wise external	co wise total
		pass%	level	pass%	level	pass%	level	pass%	level	pass%	level	pass%	level	average	pass%	level	average	average
CO	1	86.7	3.0			100.0	3.0	92.2	3.0	95.6	3.0	61.1	0.0	2.4	43.3	0.0	0.0	1.0
CO	2	86.7	3.0			100.0	3.0			95.6	3.0	61.1	0.0	2.3	43.3	0.0	0.0	0.9
CO	3	86.7	3.0	78.9	2.0	100.0	3.0			95.6	3.0	61.1	0.0	2.2	43.3	0.0	0.0	0.9
CO	4			78.9	2.0	100.0	3.0			95.6	3.0	61.1	0.0	2.0	43.3	0.0	0.0	0.8
CO	5			78.9	2.0	100.0	3.0			95.6	3.0	61.1	0.0	2.0	43.3	0.0	0.0	0.8

.

AVERAGE	AVERAGE
0	0.868

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: FARM POWER AND MACHINERY

COURSE CODE: AG 19306

CREDITS: 1

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

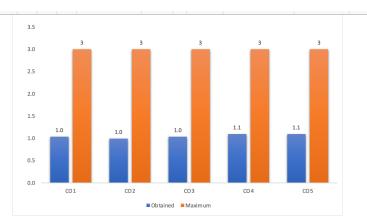
	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Generalizes types of engines and solves problems related to mechanical power.	III (APPLY)
CO2	Explain fuel system, cooling system and solves problems on tractor power	IV (ANALYSE)
CO3	Differentiates types of ploughs and their parts	VI (CREATIVE)
CO4	Classify various harrows, cultivators and other implements	III (APPLY)
CO5	Sketches various fertilizer and seeding equipments	III (APPLY)
CO5	Sketches various fertilizer and seeding equipments	III (APPLY)

Course outcomes			I	Programm	e Outcom	Program Specific outcomes							
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4	
1	Н		H						Н		S		
2	S		Н						Н		H		
3	Н		Н						S		H		
4	Н		Н						Н		Н		
5	Н		S						H		H		

H: Highly Supportive



OUTCOME	PC	01	PO2	Р	03	PO4	PO5	PO6	PO7	PO8		
C01	н	1.04		н	1.04							
CO2				н	1							
CO3	Н	1.04		н	1.04							
CO4	н	1.1		н	1.1							
CO5	н	1.1										
AVERAGE OF COS FOR POS	1.	07		1.0	045							
AVERAGE OF POS		1.0775			1.04625							
AVERAGE							1.061875					





со	mid	l exam 1	mi	d exam 2	grou	up discussion	a	ssignment	viva Attendence			External Exam		Exam			
	pass%	Attainment	pass%	Attainment	D2 <i>cc</i> ⁰ /	Attainment lovel	DDCC0 /	Attainment lovel	22559/	Attainment lovel	DDCC ⁰ /	Attainment level	co wise internal	pass%	Attainment	co wise external	co wise total
	pass%	level	pass 76	level	pass 76	Attainmentiever	pass <i>7</i> 0	Attainmentiever	pass <i>7</i> 0	Attainmentiever	pass%	Attainmentiever	average	pass 76	level	average	average
CO1	83.2	2.0			100.0	3.0	98.9	3.0	93.7	3.0	84.2	2.0	2.6	18.9	0.0	0.0	1.0
CO2	83.2	2.0			100.0	3.0			93.7	3.0	84.2	2.0	2.5	18.9	0.0	0.0	1.0
CO3	83.2	2.0	94.7	3.0	100.0	3.0			93.7	3.0	84.2	2.0	2.6	18.9	0.0	0.0	1.0
CO4			94.7	3.0	100.0	3.0			93.7	3.0	84.2	2.0	2.8	18.9	0.0	0.0	1.1
CO5			94.7	3.0	100.0	3.0			93.7	3.0	84.2	2.0	2.8	18.9	0.0	0.0	1.1

AVERAGE	AVERAGE
0	1.056



OUTCOME	PC	01	PO2	PC)3	PO4	PO5	PO6	PO7	PO8
CO1	н	0.96		н	0.96					
CO2	н	0.9		н	0.9					
CO3	н	0.88		н	0.88					
CO4	н	0.8		н	0.8					
CO5	н	0.8		н	0.8					
AVERAGE OF COS FOR POS	0.8	868		0.8	68					
AVERAGE OF POS		0.8496			0.8496					
AVERAGE							0.8496			

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: SOIL AND WATER CONSERVATION ENGINEERING

COURSE CODE: AG18206

CREDITS: 1

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

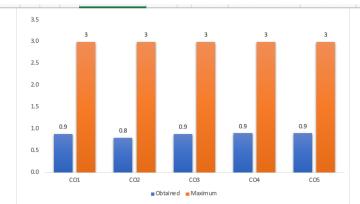
	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Explain importance of soil and water conservation, water erosion	II (UNDERSTAND)
CO2	Explain erosion control measures	IV (ANALYSE)
CO3	Explain irrigation water measurement techniques	VI (CREATIVE)
CO4	Describe irrigation pumps and discharge calculation	II (UNDERSTAND)
CO5	Explain drip and sprinkler irrigation system	II (APPLY)

Course outcomes]	Programm	e Outcom	Program Specific outcomes							
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4	
1	Н		Н						S		н		
2	Н		Н						Н		H		
3	Н		Н						Н		H		
4	Н		Н						Н		S		
5	Н		Н						Н		H		

H: Highly Supportive



OUTCOME	PO	01	PO2	PO	3	PO4	PO5	PO6	PO7	PO8		
CO1	н	0.88		н	0.88							
CO2	н	0.8		н	0.8							
CO3	н	0.88		н	0.88							
CO4	н	0.9		н	0.9							
CO5	н	0.9		н	0.9							
AVERAGE OF COS FOR POS	0.8	72		0.8	72							
AVERAGE OF POS		0.8704			0.8704							
AVERAGE							0.8704					





со	mid	l exam 1	mi	d exam 2	gro	up discussion	a	assignment viva		Attendence							
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	co wise internal average	pass%	Attainment level	co wise external average	co wise total average
CO1	77.0	2.0			100.0	3.0	95.0	3.0	100.0	3.0	63.0	0.0	2.2	35.0	0.0	0.0	0.9
CO2	77.0	2.0			100.0	3.0			100.0	3.0	63.0	0.0	2.0	35.0	0.0	0.0	0.8
CO3	77.0	2.0	92.0	3.0	100.0	3.0			100.0	3.0	63.0	0.0	2.2	35.0	0.0	0.0	0.9
CO4			92.0	3.0	100.0	3.0			100.0	3.0	63.0	0.0	2.3	35.0	0.0	0.0	0.9
CO5			92.0	3.0	100.0	3.0			100.0	3.0	63.0	0.0	2.3	35.0	0.0	0.0	0.9

AVERAGE	AVERAGE
0	0.872

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: PROTECTED CULTIVATION AND SECONDARY AGRICULTURE

COURSE CODE: AG18604

CREDITS: 1

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

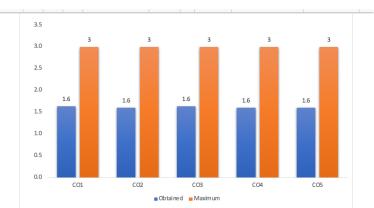
	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Introduction to greenhouse technology and study of different types of greenhouses	II (UNDERSTAND)
CO2	Explain design criteria and constructional details of greenhouse.	IV (ANALYSE)
CO3	Explain environmental parameters to be controlled with-in greenhouse.	IV (ANALYSE)
CO4	Explain the cultivation of important horticultural crops, medicinal and aromatic plants.	II (UNDERSTAND)
CO5	Explain the attack of insect, pest and disease management factors in greenhouses.	III (APPLY)

Course outcomes]	Programm	e Outcom			Program Specific outcomes					
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4	
1	Н		H						Н		н		
2	Н		Н						Н		S		
3	Н		Н						S		H		
4	H		H						Н		S		
5	Н		H						H		Н		

H: Highly Supportive



OUTCOME	PC	01	PO2	PC	03	PO4	PO5	PO6	PO7	PO8
C01	н	1.64		н	1.64					
CO2	н	1.6		н	1.6					
CO3	н	1.64		н	1.64					
CO4	н	1.6		н	1.6					
C05	н	1.6		н	1.6					
AVERAGE OF COS FOR POS	1.6	516		1.6	16					
AVERAGE OF POS	F POS 1.6112				1.6112					
AVERAGE							1.6112			





со	mic	d exam 1	mi	d exam 2	gro	up discussion	а	ssignment		viva		Attendence			External	Exam	
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	co wise internal average	pass%	Attainment level	co wise external average	co wise total average
CO1	94.4	3.0			100.0	3.0	100.0	3.0	86.5	3.0	67.4	1.0	2.6	67.4	1.0	1.0	1.6
CO2	94.4	3.0			100.0	3.0			86.5	3.0	67.4	1.0	2.5	67.4	1.0	1.0	1.6
CO3	94.4	3.0	98.9	3.0	100.0	3.0			86.5	3.0	67.4	1.0	2.6	67.4	1.0	1.0	1.6
CO4			98.9	3.0	100.0	3.0			86.5	3.0	67.4	1.0	2.5	67.4	1.0	1.0	1.6
CO5			98.9	3.0	100.0	3.0			86.5	3.0	67.4	1.0	2.5	67.4	1.0	1.0	1.6

AVERAGE	AVERAGE
1	1.616

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: RENEWABLE ENERGY AND GREEN TECHNOLOGY

COURSE CODE: AG20509

CREDITS: 1

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

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PSO1. Knowledge on crop production and crop improvement techniques

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PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

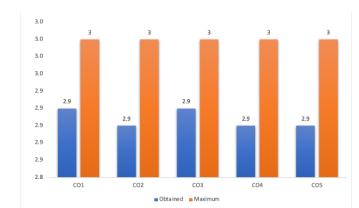
	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Introduction to energy sources.	II (UNDERSTAND)
CO2	Explain different types of biogas plants, gasifiers, solar water and air heaters, solar cookers and solar dryers.	IV (ANALYSE)
CO3	Explain different parts and types of windmill.	VI (CREATE)
CO4	AExplain various practices of indigenous technology	III (APPLY)
CO5	Explain bio-diesel and ethanol production.	III (APPLY)

Course outcomes]	Programm	e Outcom		Program Specific outcomes						
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4	
1	Н		Н						Н		Н		
2	Н		H						H		Н		
3	Н		H						H		H		
4	Н		H						H		H		
5	Н		H						H		Н		

H: Highly Supportive



OUTCOME	PC	01	PO2	P	03	PO4	PO5	PO6	PO7	PO8
C01	н	2.92		Н	2.92					
C02	н	2.9		Н	2.9					
CO3	н	2.92		н	2.92					
CO4	н	2.9		н	2.9					
C05	н	2.9		н	2.9					
AVERAGE OF COS FOR POS	2.9	08		2.908						
AVERAGE OF POS		2.9056		2.9056						
AVERAGE	AVERAGE						2.9056			





со	mic	l exam 1	mi	d exam 2	grou	up discussion	а	ssignment		viva	A	Attendence			External	Exam	
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	co wise internal	pass%	Attainment level	co wise external average	co wise total
				level	100.0	2.0		2.0	100.0			2.0	average			, i i i i i i i i i i i i i i i i i i i	average
CO1	88.9	3.0			100.0	3.0	94.4	3.0	100.0	3.0	81.1	2.0	2.8	86.7	3.0	3.0	2.9
CO2	88.9	3.0			100.0	3.0			100.0	3.0	81.1	2.0	2.8	86.7	3.0	3.0	2.9
CO3	88.9	3.0	97.8	3.0	100.0	3.0			100.0	3.0	81.1	2.0	2.8	86.7	3.0	3.0	2.9
CO4			97.8	3.0	100.0	3.0			100.0	3.0	81.1	2.0	2.8	86.7	3.0	3.0	2.9
CO5			97.8	3.0	100.0	3.0			100.0	3.0	81.1	2.0	2.8	86.7	3.0	3.0	2.9

AVERAGE	AVERAGE
3	2.908

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: METEOROLOGY&CLIMATE CHANGE

COURSE CODE: AG18201

CREDITS: 1

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

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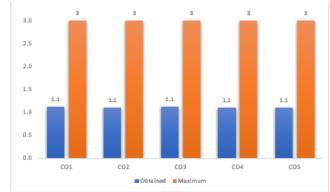
	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Understand the meteorology, climatology & agril meteorology, types of wind	II (UNDERSTAND)
CO2	Analyze the solar radiation, factors affecting distribution of solar radiation	IV (ANALYSE)
CO3	Analyze the precipitation and condensation and their different forms	IV (ANALYSE)
CO4	Appraise the characteristics of different clouds , southwest and northwest monsoons	II (UNDERSTAND)
CO5	Understand the weather hazards and categorize types of weather	II (UNDERSTAND)

Course outcomes]	Programm	e Outcom	ies			Program Specific outcomes					
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4		
1	Н		Н						H		Н			
2	S		Н						Н		Н			
3	Н		H						Н		Н			
4	Н		Н						Н		Н			
5	Н		Н						Н		S			

H: Highly Supportive



OUTCOME	P	01	PO2	P	D3	P	04	F	205	P06		PO7	P	08
CO1	н	1.12		н	1.12									
CO2	Н	1.1		Н	1.1	Н	1.1				н	1.1		
CO3	Н	1.12		Н	1.12	Н	1.12	Н	1.12		н	1.12		
CO4	н	1.1		Н	1.1	Н	1.1				н	1.1		
CO5	Н	1.1		Н	1.1	Н	1.1						н	1.1
AVERAGE OF COS FOR POS	1.1	108		1.108		1.105		1.12			1,106	666667	1	.1
AVERAGE OF POS	1.1056			1.1056			1.105		1.12			1.1067		1.1
AVERAGE	AVERAGE					1.		107144444						





co	mid	exam 1	mid exam 2		group discussion		assignment		viva		Attendence		Extern		External	Exam	
		Attainment		Attainment	pass%	Attainment		Attainment	pass%	Attainment		Attainment	co wise internal		Attainment	co wise external	co wise total
	pass%	level	pass%	level	pass/.	level	pass%	level	pass/.	level	pass%	level	average	pass%	level	average	average
CO1	94.1	3.0			100.0	3.0	100.0	3.0	100.0	3.0	80.2	2.0	2.8	43.6	0.0	0.0	1.1
CO2	94.1	3.0			100.0	3.0			100.0	3.0	80.2	2.0	2.8	43.6	0.0	0.0	1.1
CO3	94.1	3.0	94.1	3.0	100.0	3.0			100.0	3.0	80.2	2.0	2.8	43.6	0.0	0.0	1.1
CO4			94.1	3.0	100.0	3.0			100.0	3.0	80.2	2.0	2.8	43.6	0.0	0.0	1.1
CO5			94.1	3.0	100.0	3.0			100.0	3.0	80.2	2.0	2.8	43.6	0.0	0.0	1.1

AVERAGE	AVERAGE
0	1.108

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: WEED SCIENCE AND THEIR MANAGEMENT

COURSE CODE: A G 2 0 5 1 0

CREDITS: 2

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

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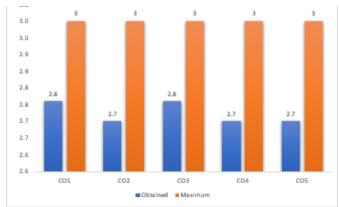
	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Understand the harmful and beneficial effects of weeds	II (UNDERSTAND)
CO2	Analyze the physical /mechanical ,cultural weed management practices	IV (ANALYSE)
CO3	Analyze the herbicide classification based on chemical nature-time and method of application	IV (ANALYSE)
CO4	Appraise the herbicide rotation, mixture and relevance in agriculture	II (UNDERSTAND)
CO5	Understand the new developments in herbicides-micro herbicides and nano herbicides	II (UNDERSTAND)

Course outcomes	Programme Outcomes									Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4		
1	Н		Н						H		Н			
2	S		Н						Н		Н			
3	Н		H						Н		Н			
4	Н		Н						Н		Н			
5	Н		Н						Н		S			

H: Highly Supportive



OUTCOME	P01	PO2	PO3	PO4	PO5	P06	PO7	P08				
CO1	H 2.76		H 2.76									
CO2	H 2.7		H 2.7	H 2.7			H 2.7					
CO3	H 2.76		H 2.76	H 2.76	H 2.76		H 2.76					
CO4	H 2.7		H 2.7	H 2.7			H 2.7					
CO5	H 2.7		H 2.7	H 2.7				H 2.7				
AVERAGE OF COS FOR POS	2.724		2.724	2.715	2.76		2.72	2.7				
AVERAGE OF POS	2.7168		2.7168	2.715	2.76		2.72	2.7				
AVERAGE	Ξ	2.721433333										





co	mid	lexam 1	mi	d exam 2	group	group discussion		assignment		viva		ttendence			External		
		Attainment		Attainment		Attainment		Attainment		Attainment		Attainment	co wise internal		Attainment	co wise external	co wise total
	pass%	level	pass%	level	pass%	level	pass%	level	pass%	level	pass%	level	average	pass%	level	average	average
CO1	87.2	3.0			100.0	3.0	94.9	3.0	100.0	3.0	59.0	0.0	2.4	97.4	3.0	3.0	2.8
CO2	87.2	3.0			100.0	3.0			100.0	3.0	59.0	0.0	2.3	97.4	3.0	3.0	2.7
CO3	87.2	3.0	100.0	3.0	100.0	3.0			100.0	3.0	59.0	0.0	2.4	97.4	3.0	3.0	2.8
CO4			100.0	3.0	100.0	3.0			100.0	3.0	59.0	0.0	2.3	97.4	3.0	3.0	2.7
CO5			100.0	3.0	100.0	3.0			100.0	3.0	59.0	0.0	2.3	97.4	3.0	3.0	2.7

AVERAGE	AVERAGE
3	2.724

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: WATERMANAGEMENT

COURSE CODE: AG19302

CREDITS: 1

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

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PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
Understand the major, medium and minor irrigation projects	II (UNDERSTAND)
Analyze the problems on available soil moisture	IV (ANALYSE)
Analyze the net and gross irrigation requirements	IV (ANALYSE)
Appraise the different approaches of scheduling of irrigation	II (UNDERSTAND)
Understand the various micro irrigation methods and quality of water	II (UNDERSTAND)
	Analyze the problems on available soil moisture Analyze the net and gross irrigation requirements Appraise the different approaches of scheduling of irrigation

TABLE 1: CO, PO, PSO MAPPING

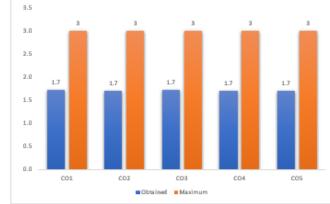
Course]	Programm	e Outcom		Program Specific outcomes						
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4	
1	Н		Н						H		Н		
2	S		Н						Н		Н		
3	Н		H						Н		Н		
4	Н		Н						Н		Н		
5	Н		Н						Н		S		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	P	03	P	04	P05	P06	P07		F	PO8
CO1	H 1.72	2	н	1.72								
CO2	H 1.7		Н	1.7	Н	1.7			Н	1.7		
CO3	H 1.72	2	н	1.72	Н	1.72	H 1.72		Н	1.72		
CO4	H 1.7		н	1.7	Н	1.7			Н	1.7		
CO5	H 1.7		н	1.7	Н	1.7					Н	1.7
AVERAGE OF COS FOR POS	1.708		1.1	708	1.705		1.72		1.7066	666667		1.7
AVERAGE OF POS	1.705	6		1.7056	1.705		1.72			1.7067		1.7
AVERAGE	Ξ					1.	707144444					





co	mid	exam 1	mi	d exam 2	group	group discussion		assignment		viva		ttendence			External		
		Attainment		Attainment		Attainment		Attainment		Attainment		Attainment	co wise internal		Attainment	co wise external	co wise total
	pass%	level	pass%	level	pass%	level	pass%	level	pass%	level	pass%	level	average	pass%	level	average	average
CO1	85.1	3.0			100.0	3.0	96.8	3.0	100.0	3.0	81.9	2.0	2.8	66.0	1.0	1.0	1.7
CO2	85.1	3.0			100.0	3.0			100.0	3.0	81.9	2.0	2.8	66.0	1.0	1.0	1.7
CO3	85.1	3.0	97.9	3.0	100.0	3.0			100.0	3.0	81.9	2.0	2.8	66.0	1.0	1.0	1.7
CO4			97.9	3.0	100.0	3.0			100.0	3.0	81.9	2.0	2.8	66.0	1.0	1.0	1.7
CO5			97.9	3.0	100.0	3.0			100.0	3.0	81.9	2.0	2.8	66.0	1.0	1.0	1.7

AVERAGE	AVERAGE
1	1.708

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: INTRODUCTION TO FORESTRY

COURSE CODE: A G 1 8 2 0 2

CREDITS: 1

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
Understand the various branches of forestry, silviculture and its classification	II (UNDERSTAND)
Analyze the forest policies and types of regeneration	IV (ANALYSE)
Analyze the tending operations followed in forestry	IV (ANALYSE)
Appraise the importance of agro forestry in india	II (UNDERSTAND)
Understand the practices for raising subabul and eucalyptus	II (UNDERSTAND)
-	Understand the various branches of forestry, silviculture and its classification Analyze the forest policies and types of regeneration Analyze the tending operations followed in forestry Appraise the importance of agro forestry in india

TABLE 1: CO, PO, PSO MAPPING

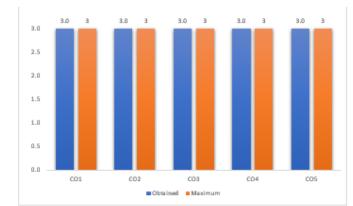
Course]	Programm	e Outcom		Program Specific outcomes						
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4	
1	Н		Н						H		Н		
2	S		Н						Н		Н		
3	Н		H						Н		Н		
4	Н		Н						Н		Н		
5	Н		Н						Н		S		

H: Highly Supportive

S: Supportive



OUTCOME	P	01	PO2	F	03	PC)4	P	D5	PO6	F	PO7	PO	38
CO1	н	3		Н	3									
CO2	Н	3		Н	3	Н	3				н	3		
CO3	Н	3		Н	3	н	3	н	3		Н	3		
CO4	н	3		Н	3	Н	3				н	3		
CO5	Н	3		Н	3	Н	3						н	3
AVERAGE OF COS FOR POS		3			3	0	;		3			3	3	3
AVERAGE OF POS		3			3		3		3			3		3
AVERAGE								3						





CO	D	mid	exam 1	mi	d exam 2	group	group discussion		assignment		viva		tendence			External		
		pass%	Attainment		Attainment	pass%	Attainment		Attainment	pass%	Attainment		Attainment	co wise internal	pass%	Attainment	co wise external	co wise total
		pass/.	level	pass%	level	pass/.	level	pass%	level	pass/.	level	pass%	level	average	pass/.	level	average	average
CC	01	97.9	3.0			100.0	3.0	100.0	3.0	100.0	3.0	100.0	3.0	3.0	100.0	3.0	3.0	3.0
CC	32	97.9	3.0			100.0	3.0			100.0	3.0	100.0	3.0	3.0	100.0	3.0	3.0	3.0
CC	33	97.9	3.0	100.0	3.0	100.0	3.0			100.0	3.0	100.0	3.0	3.0	100.0	3.0	3.0	3.0
CC	04			100.0	3.0	100.0	3.0			100.0	3.0	100.0	3.0	3.0	100.0	3.0	3.0	3.0
CC	05			100.0	3.0	100.0	3.0			100.0	3.0	100.0	3.0	3.0	100.0	3.0	3.0	3.0

AVERAGE	AVERAGE
3	3

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSETITLE: MANAGEMENT OF BENEFICIAL INSECTS

COURSECODE:AG20603

CREDITS: 2

DEPARTMENT: B.Sc.(Hons.)AGRICULTURALSCIENCE

PROGRAMMEOUTCOMES(BA/BSC/BCOM and BBA) Or POs:

PO1.Scientificknowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4.Moderntoolusage: create, select and apply appropriate techniques, resources, modern technology and ITtools to complex science and technological activities.

PO5.Environmentandsustainability: understand the impact of professional science and technological solutions in societal and environmental

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

	COURSEOUTCOMES	BLOOM'STAXONOMYLEVEL	
CO1	Explain importance of sericulture, Moriculture and grainage technology	II (UNDERSTAND)	
CO2	Explain silkworm rearing types, rearing house, pests and disease management	IV (ANALYSE)	
CO3	Explain post cocoon technology, types of reeling and importance of bee industry	IV (ANALYSE)	
CO4	Explain honey bee rearing equipment, management and extraction of honey	II (UNDERSTAND)	
CO5	Explain Lac culture, and important predators, parasitoids and pollinators develops ability to identify various insects	II (UNDERSTAND)	

TABLE1: CO,PO,PSO MAPPING

Course outcomes		Programm	ne Outc	comes		Program Specific outcomes						
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4
1	Н		Н						Н		H	
2	S		Н						H		H	
3	H		Н						H		Н	
4	Н		Н						Н		Н	
5	Н		Н						Н		S	

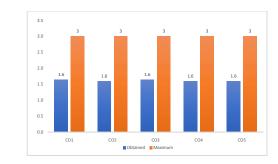
H: Highly Supportive

S:Supportive



OUTCOME	PO1	PO2	P	03	F	PO4	PO5	PO6	F	P07	P	PO8
CO1	Н 1.6	4	Н	1.64								
CO2	Н 1.6	0	н	1.60	н	1.60			Н	1.60		
CO3	Н 1.6	4	н	1.64	н	1.64	Н 1.64		н	1.64		
CO4	Н 1.6	0	н	1.60	н	1.60			Н	1.60		
CO5	Н 1.6	0	н	1.60	н	1.60					н	1.60
AVERAGE OF COS FOR POS	1.62		1.	.62	1	61	1.64		1	1.61	1	1.60
AVERAGE OF POS	1.6	1		1.61		1.61	1.64			1.61		1.60
AVERAGE							1.6143					





CO	mid	exam 1	mi	d exam 2	grou	p discussion	a	ssignment		viva	A	ttendence			External	Exam	
	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	2000 0/	Attainment level	co wise internal	pass%	Attainment	co wise external	co wise total
	pass%	level	pass%	level	pass%	level	pass%	level	pass%	level	pass%	Attainmentiever	average	pass%	level	average	average
CO1	97.8	3.0			98.9	3.0	100.0	3.0	100.0	3.0	73.0	1.0	2.6	70.8	1.0	1.0	1.6
CO2	97.8	3.0			98.9	3.0			100.0	3.0	73.0	1.0	2.5	70.8	1.0	1.0	1.6
CO3	97.8	3.0	100.0	3.0	98.9	3.0			100.0	3.0	73.0	1.0	2.6	70.8	1.0	1.0	1.6
CO4			100.0	3.0	98.9	3.0			100.0	3.0	73.0	1.0	2.5	70.8	1.0	1.0	1.6
CO5			100.0	3.0	98.9	3.0			100.0	3.0	73.0	1.0	2.5	70.8	1.0	1.0	1.6

AVERAGE	AVERAGE
1	1.616

COURSETITLE: INSECT ECOLOGY AND IPM

COURSECODE:AG20304

CREDITS: 2

DEPARTMENT: B.Sc. (Hons.)AGRICULTURALSCIENCE

PROGRAMMEOUTCOMES(BA/BSC/BCOM and BBA)Or POs:

PO1.Scientificknowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

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PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

	COURSEOUTCOMES	BLOOM'STAXONOMYLEVEL
CO1	Identify the importance of biotic and abiotic factors in the life of insects	II (UNDERSTAND)
CO2	Explain the concept of biological and chemical control	IV (ANALYSE)
CO3	Classify insecticides based on mode of action	IV (ANALYSE)
CO4	Describes the recent techniques of pest control	II (UNDERSTAND)
CO5	Explain other insect and non- insect pest control	II (UNDERSTAND)

TABLE1: CO,PO,PSO MAPPING

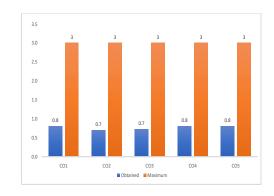
Course outcomes	Programme	e Outcom	es			Program Specific outcomes						
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4
1	Н		Н	S			S			S		Н
2	H		Н	Н			S			Н		H
3	Н		Н	Н	Н		S			Н		Н
4	Н		Н	Н	S		S			Н		S
5	H		Н	Н	S		Н			Н		Н

H: Highly Supportive

S: Supportive



OUTCOME	PC	01	PO2	P	03	F	°O4	PO5		PO6		P07	PC	08
CO1	Н	0.8		н	0.8									
CO2	Н	0.7		н	0.7	н	0.7				н	0.7		
CO3	н	0.72		н	0.72	н	0.72	Н	0.72		Н	0.72		
CO4	н	0.8		н	0.8	н	0.8				Н	0.8		
CO5	н	0.8		н	0.8	н	0.8						н	0.8
AVERAGE OF COS FOR POS	0.7	'64		0.	764	0.	.755	0.72			().74	0.	.8
AVERAGE OF POS		0.7568			0.7568		0.755		0.72			0.74		0.8
AVERAGE						C		.754766667						





CO	mid	exam 1	mi	d exam 2	grou	p discussion	a	ssignment	viva Attendence				External Exam				
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	co wise internal average	pass%	Attainment level	co wise external average	co wise total average
CO1	67.0	1.0			100.0	3.0	85.6	3.0	97.9	3.0	50.5	0.0	2.0	32.0	0.0	0.0	0.8
CO2	67.0	1.0			100.0	3.0			97.9	3.0	50.5	0.0	1.8	32.0	0.0	0.0	0.7
CO3	67.0	1.0	80.4	2.0	100.0	3.0			97.9	3.0	50.5	0.0	1.8	32.0	0.0	0.0	0.7
CO4			80.4	2.0	100.0	3.0			97.9	3.0	50.5	0.0	2.0	32.0	0.0	0.0	0.8
CO5			80.4	2.0	100.0	3.0			97.9	3.0	50.5	0.0	2.0	32.0	0.0	0.0	0.8

AVERAGE	AVERAGE
0	0.764

COURSETITLE: PRINCIPLES OF IPDM

COURSECODE:AG20505

CREDITS: 2

DEPARTMENT: B.Sc. (Hons.) AGRICULTURALSCIENCE

PROGRAMME OUT COMES (BA/BSC/BCOM and BBA) Or POs:

PO1.Scientificknowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex

problems

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	COURSEOUTCOMES	BLOOM'STAXONOMYLEVEL
CO1	Explain introduction strategies and concepts of IPM with Examples	II (UNDERSTAND)
CO2	Explain host plant resistance and different cultural and mechanical control of IPM	IV (ANALYSE)
CO3	Explain other tools and limitations of IPM	IV (ANALYSE)
CO4	Explain different control methods of Integrated disease management	II (UNDERSTAND)
CO5	Explain different methods of disease forecasting and implementation of different IDM modules	II (UNDERSTAND)

TABLE1: CO,PO,PSOMAPPING

Course outcomes	Programme	e Outcom	es		Program	Program Specific outcomes						
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4
1	Н		Н	S			S	S		S		Н
2	Н		Н	Н			Н	S		Н		H
3	Н		Н	Н	H		Н	S		Н		H
4	H		H	Н	S		Н	S		Н		S
5	Н		H	Н	S		S	Н		Н		Н

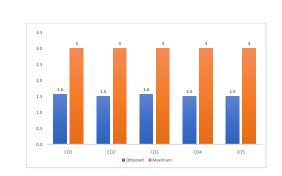
H: Highly Supportive

S: Supportive



OUTCOME	PC	D1	PO2	PO3		PO4		PC	5	PO6		PO7	PC	2 8
CO1	Н	1.56		н	1.56									
CO2	Н	1.50		Н	1.50	Н	1.50				Н	1.50		
CO3	Н	1.56		Н	1.56	Н	1.56	Н	1.56		Н	1.56		
CO4	Н	1.50		Н	1.50	Н	1.50				Н	1.50		
CO5	Н	1.50		н	1.50	Н	1.50						н	1.50
AVERAGE OF COS FOR POS	1.52			1	1.52		1.52	1.5	6			1.52	1.	50
AVERAGE OF POS		1.52		1.52		1.515			1.56		1.52			1.50
AVERAGE								1.5214						





со	mid	exam 1	mid exam 2		group discussion		assignment		viva		Attendence			External Exam					
	Attainn	pass% Attainment level	Attainment	Attainment	20000/	Attainment		Attainment	Attainment	Attainment	20000/	Attainment		Attainment level	co wise internal	pass%	Attainment	co wise external	co wise total
	pass%		pass% level	level	pass%	level	pass% level	level	pass%	level	pass%	Attainment level	average	pass%	level	average	average		
CO1	89.2	3.0			100.0	3.0	95.7	3.0	96.8	3.0	55.9	0.0	2.4	72.0	1.0	1.0	1.6		
CO2	89.2	3.0			100.0	3.0			96.8	3.0	55.9	0.0	2.3	72.0	1.0	1.0	1.5		
CO3	89.2	3.0	94.6	3.0	100.0	3.0			96.8	3.0	55.9	0.0	2.4	72.0	1.0	1.0	1.6		
CO4			94.6	3.0	100.0	3.0			96.8	3.0	55.9	0.0	2.3	72.0	1.0	1.0	1.5		
CO5			94.6	3.0	100.0	3.0			96.8	3.0	55.9	0.0	2.3	72.0	1.0	1.0	1.5		

AVERAGE	AVERAGE
1	1.524

COURSETITLE: PEST OF CROPS , STORED GRAINS AND THEIR MANGEMNT

COURSECODE:AG20507

CREDITS: 2

DEPARTMENT: B.Sc.(Hons.) AGRICULTURAL SCIENCE

PROGRAMMEOUTCOMES(BA/BSC/BCOM and BBA) Or POs:

PO1.Scientificknowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex

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PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

	COURSEOUTCOMES	BLOOM'STAXONOMYLEVEL	
CO1	Explain identification marks, nature of damage, damaging symptoms and control measures of pest of cereal crops	II (UNDERSTAND)	
CO2	Explain identification marks, nature of damage, damaging symptoms and control measures of pest of oil seed and fiber crops	IV (ANALYSE)	
CO3	Explain identification marks, nature of damage, damaging symptoms and control measures of pest of fruit crops	IV (ANALYSE)	
CO4	Explain identification marks, nature of damage, damaging symptoms and control measures of pest of vegetable crops	II (UNDERSTAND)	
CO5	Explain identification marks, nature of damage, damaging symptoms and control measures of pest of flower crops and stored grain pests	II (UNDERSTAND)	

TABLE1:CO,PO,PSO MAPPING

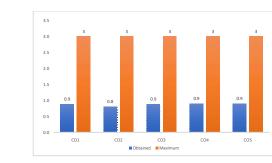
PO2 PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4
Н									
	S			S	S		S		Н
Н	H			Н	S		Н		Н
Н	H	Н		H	S		Н		H
Н	H	S		H	S		Н		S
Н	H	S		S	H		Н		H

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 0.88		H 0.88					
CO2	H 0.80		H 0.80	Н 0.80			H 0.80	
CO3	Н 0.88		H 0.88	Н 0.88	Н 0.88		Н 0.88	
CO4	Н 0.90		Н 0.90	Н 0.90			Н 0.90	
CO5	Н 0.90		Н 0.90	Н 0.90				Н 0.90
AVERAGE OF COS FOR POS	0.87		0.87	0.87	0.88		0.86	0.90
AVERAGE OF POS	0.87		0.87	0.87	0.88		0.86	0.90
AVERAGE					0.8751			





CO	mid	exam 1	mid exam 2		group discussion		assignment		viva		Attendence				S% level average .1 0.0 0.0 .1 0.0 0.0		
		Attainment		Attainment		Attainment		Attainment		Attainment		Attainment level	co wise internal		Attainment	co wise external	co wise total
	pass%	level	pass%	level	pass%	level	pass%	level	pass%	level	pass%	Attainment level	average	pass%	level	average	average
CO1	82.8	2.0			100.0	3.0	94.6	3.0	96.8	3.0	59.1	0.0	2.2	16.1	0.0	0.0	0.9
CO2	82.8	2.0			100.0	3.0			96.8	3.0	59.1	0.0	2.0	16.1	0.0	0.0	0.8
CO3	82.8	2.0	94.6	3.0	100.0	3.0			96.8	3.0	59.1	0.0	2.2	16.1	0.0	0.0	0.9
CO4			94.6	3.0	100.0	3.0			96.8	3.0	59.1	0.0	2.3	16.1	0.0	0.0	0.9
CO5			94.6	3.0	100.0	3.0			96.8	3.0	59.1	0.0	2.3	16.1	0.0	0.0	0.9

AVERAGE	AVERAGE
0	0.872

COURSETITLE: FUNDAMENTALS OF ENTOMOLOGY

COURSECODE:AG18204

CREDITS: 3

DEPARTMENT: B.Sc.(Hons.) AGRICULTURALSCIENCE

PROGRAMMEOUTCOMES(BA/BSC/BCOM and BBA) Or POs:

PO1.Scientificknowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex

problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4.Moderntoolusage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5.Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental

context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organisation.

	COURSEOUTCOMES	BLOOM'STAXONOMYLEVEL
CO1	Explain the history, scope and importance of entomology and insect body wall and body segmentation	II (UNDERSTAND)
CO2	Identify and recognize various structures and functions of insect antenna, legs , wings and different types of larval and pupal forms of insect .	IV (ANALYSE)
CO3	Illustrate various physiological systems of insect body	IV (ANALYSE)
CO4	Describes the characteristics of insect belongs to the orders Orthoptera, Isoptera ,Thysanoptera, Lepidoptera and develops ability to identify various insects.	II (UNDERSTAND)
CO5	Identify the characters of insects belongs to the orders Coleoptera, Hymenoptera, Diptera, Hemiptera and develops ability to identify various insects.	II (UNDERSTAND)

TABLE1: CO,PO,PSO MAPPING

Course outcomes	Programme	Outcom	es		Prograr	Program Specific outcomes						
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4
1	H		Н	S			S	S		S		H
2	H		н	н			Н	S		Н		H
3	H		Н	Н	Н		Н	S		Н		Н
4	Н		Н	Н	S		Н	S		Н		S
5	Н		Н	Н	S		S	Н		Н		Н

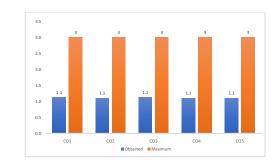
H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	Н 1.1	2	Н 1.12					
CO2	H 1.1	0	Н 1.10	Н 1.10			Н 1.10	
CO3	Н 1.1	2	Н 1.12	Н 1.12	Н 1.12		Н 1.12	
CO4	Н 1.1	0	Н 1.10	Н 1.10			Н 1.10	
CO5	Н 1.1	0	Н 1.10	Н 1.10				Н 1.10
AVERAGE OF COS FOR POS	1.11		1.11	1.11	1.12		1.11	1.10
AVERAGE OF POS	1.1	1	1.11	1.11	1.12		1.11	1.10
AVERAGE					1.1071			





CO	mid	exam 1	mid exam 2		group discussion		assignment		viva		Attendence				External Exam Attainment co wise external level average 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		
	22220/	Attainment	22220/	Attainment	t 🔬 Attainment 🔬 Attainmer		Attainment	pass%	Attainment	pass% Attainment level		co wise internal	20000/	Attainment	co wise external	co wise total	
	pass%	level	pass%	level	pass%	level	pass%	level pass	pass%	level	pass%		average	pass%	level	average	average
CO1	91.2	3.0			100.0	3.0	100.0	3.0	100.0	3.0	81.4	2.0	2.8	12.7	0.0	0.0	1.1
CO2	91.2	3.0			100.0	3.0			100.0	3.0	81.4	2.0	2.8	12.7	0.0	0.0	1.1
CO3	91.2	3.0	95.1	3.0	100.0	3.0			100.0	3.0	81.4	2.0	2.8	12.7	0.0	0.0	1.1
CO4			95.1	3.0	100.0	3.0			100.0	3.0	81.4	2.0	2.8	12.7	0.0	0.0	1.1
CO5			95.1	3.0	100.0	3.0			100.0	3.0	81.4	2.0	2.8	12.7	0.0	0.0	1.1

AVERAGE	AVERAGE
0	1.108

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: DISEASES OF FIELD CROPS, HORTICULTURAL CROPS-I AND THEIR MANAGEMENT

COURSE CODE: AG20504

CREDITS: 2

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental

context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organisation.

	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Identify different diseases of cereal crops and gain knowledge about their management	II (UNDERSTAND)
CO2	Identify different diseases of Sugarcane, Cotton, Tobacco, Castor, Groundnut and gain knowledge about their management	IV (ANALYSE)
CO3	Identify different diseases of oilseeds and gain knowledge about their management	IV (ANALYSE)
CO4	Identify different diseases of pulse crops and gain knowledge about their management	II (UNDERSTAND)

CO5	Identify different diseases of fruit crops and gain knowledge about their management	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

		Ι	Programm	Program									
								Specific					
										outcomes			
PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4		
H		H						H		H			
Н		Н						Н		Н			
Н		Н						Н		H			
Н		Н						H		Н			
	H H H	H H H	PO1 PO2 PO3 H H H H H H H H H H H H	PO1PO2PO3PO4HHHIHHIHHIHIIHII	PO1 PO2 PO3 PO4 PO5 H H I I I H H I I I H H I I I H I H I I H I H I I	HHHHHHHHHHHH	PO1 PO2 PO3 PO4 PO5 PO6 PO7 H H I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	PO1 PO2 PO3 PO4 PO5 PO6 PO7 P08 H H Image: Second Seco	PO1 PO2 PO3 PO4 PO5 PO6 PO7 P08 PS01 H H I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	PO1 PO2 PO3 PO4 PO5 PO6 PO7 P08 PS01 PS02 H I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	PO1 PO2 PO3 PO4 PO5 PO6 PO7 P08 PS01 PS02 PS03 H Image: Ima	PO1 PO2 PO3 PO4 PO5 PO6 PO7 P08 PS01 PS02 PS03 PS04 H Image: Imag	

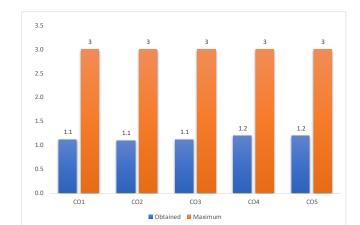
5	Н	Н			Η	Н	

H: Highly Supportive

S: Supportive



OUTCOME	PO1		PO2	PC	03	PO4	PO5	PO6	PO7	PO8
CO1	н	1.12		н	1.12					
CO2	н	1.1		н	1.1					
CO3	н	1.12		н	1.12					
CO4	н	1.2		н	1.2					
CO5	н	1.2		н	1.2					
AVERAGE OF COS FOR POS	1.148	3		1.1	.48					
AVERAGE OF POS	:	1.1536			1.1536					
AVERAGE							1.1536			





CO	mid	exam 1	mi	d exam 2	grou	p discussion	as	signment		viva	At	tendence		External		Exam	
	pass%	Attainment level	co wise internal average	pass%	Attainment level	co wise external average	co wise total average										
CO1	82.2	2.0			100.0	3.0	100.0	3.0	98.9	3.0	87.8	3.0	2.8	24.4	0.0	0.0	1.1
CO2	82.2	2.0			100.0	3.0			98.9	3.0	87.8	3.0	2.8	24.4	0.0	0.0	1.1
CO3	82.2	2.0	98.9	3.0	100.0	3.0			98.9	3.0	87.8	3.0	2.8	24.4	0.0	0.0	1.1
CO4			98.9	3.0	100.0	3.0			98.9	3.0	87.8	3.0	3.0	24.4	0.0	0.0	1.2
CO5			98.9	3.0	100.0	3.0			98.9	3.0	87.8	3.0	3.0	24.4	0.0	0.0	1.2

AVERAGE	AVERAGE
0	1.148

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

SUBJECT: DISEAS

DISEASES OF FIELD CROPS, HORTICULTURAL CROPS-I AND THEIR MANAGEMENT

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H		H						H		H	
C02	H		H						H		H	
C03	H		H						H		H	
C04	H		H						H		H	
C05	H		H						H		H	

H: Highly Supportive S: Supportive

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: DISEASES OF HORTICULTURAL CROPS-IIAND THEIR MANAGEMENT

COURSE CODE: AG20606

CREDITS: 2

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental

context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organisation.

	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Identify different diseases of Grapevine, Apple, Pomegranate, Crucifers, Cucurbits, Cucurbits and gain knowledge about their management	II (UNDERSTAND)
CO2	Identify different diseases of Brinjal, Chilli, Tomato, Bhendi and gain knowledge about their management	IV (ANALYSE)
CO3	Identify different diseases of Onion, Potato, Bean, Turmeric, Ginger and gain knowledge about their management	IV (ANALYSE)
CO4	Identify different diseases of Coconut, Tea, Rose, Marigold and gain knowledge about their management	II (UNDERSTAND)

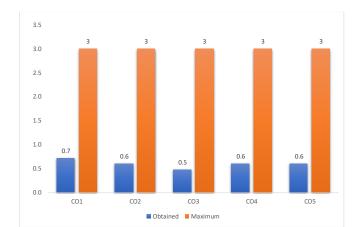
	ND)
management	

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes							
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4				
1	Н		H						Н		н					
2	Н		Н						Н		H					
3	Н		Н						Н		H					
4	Н		Н						H		H					
5	Н		H						Н		H					

H: Highly Supportive

S: Supportive





со	mid	exam 1	mi	d exam 2	grou	p discussion	as	signment		viva	At	tendence		External Exam			
	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	co wise internal	pass%	Attainment	co wise external	co wise total
	pass /o	level	pass/o	level	pass /0	level	pass /o	level	pass/0	level	pass/0	level	average	pass /0	level	average	average
CO1	0.0	0.0			100.0	3.0	100.0	3.0	100.0	3.0	4.5	0.0	1.8	16.9	0.0	0.0	0.7
CO2	0.0	0.0			100.0	3.0			100.0	3.0	4.5	0.0	1.5	16.9	0.0	0.0	0.6
CO3	0.0	0.0	0.0	0.0	100.0	3.0			100.0	3.0	4.5	0.0	1.2	16.9	0.0	0.0	0.5
CO4			0.0	0.0	100.0	3.0			100.0	3.0	4.5	0.0	1.5	16.9	0.0	0.0	0.6
CO5			0.0	0.0	100.0	3.0			100.0	3.0	4.5	0.0	1.5	16.9	0.0	0.0	0.6

AVERAGE	AVERAGE
0	0.6



OUTCOME	PO	1	PO2	Р	PO3		04	PO	5	PO6		P07	PC	08
CO1	Н	0.72		Н	0.72									
CO2	Н	0.6		н	0.6	Н	0.6				н	0.6		
CO3	Н	0.48		н	0.48	Н	0.48	Н	0.48		н	0.48		
CO4	н	0.6		Н	0.6	Н	0.6				н	0.6		
CO5	Н	0.6		н	0.6	Н	0.6						Н	0.6
AVERAGE OF COS FOR POS	0.6	5		C	0.6	C	.57	0.4	8			0.56	0.	.6
AVERAGE OF POS		0.576			0.576		0.57		0.48			0.56		0.6
AVERAGE		0.560333333												



DEPARTMENT:

NCE

SUBJECT: DISEASES OF HORTICULTURAL CROPS-II & THEIR MANAGEMENT

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H		H	S			S	S		S		H
C02	H		H	H			H	S		H		H
C03	H		H	H	H		H	S		H		H
C04	H		H	H	S		H	S		H		S
C05	H		Н	H	S		S	H		H		H

H: Highly Supportive S: Supportive

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSETITLE: CROP PRODUCTION TECHNOLOGY -1 (Kharif crops)

COURSECODE:AG19301

CREDITS: 2

DEPARTMENT:B.Sc.(Hons.)AGRICULTURALSCIENCE

PROGRAMMEOUTCOMES(BA/BSC/BCOMandBBA)OrPOs:

PO1.Scientificknowledge:Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety , and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4.Moderntoolusage:create, select and apply appropriate techniques,resources,modern technology and IT tools to complex science and technological activities.

PO5.Environmentandsustainability: understand the impact of professional science and technological solutions in societal and environmental

context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organisation.

	COURSEOUTCOMES	BLOOM'STAXONOMYLEVEL
CO1	Explains various crop production techniques from sowing to harvest for Rice and wheat	II (UNDERSTAND)
CO2	Explains various crop production techniques from sowing to harvest for maize and sorghum	II (UNDERSTAND)
CO3	Explains various crop production techniques from sowing to harvest for pearl millet, Finger millet, foxtail millet, Kodo millet, proso millet, little millet	IV (ANALYSE)
CO4	Explains various crop production techniques from sowing to harvest for Red gram, Bengal gram, green gram, black gram, cowpea, horse gram	IV (ANALYSE)

CO5	Explains various crop production techniques from sowing to harvest for different forage crops	II (UNDERSTAND)

TABLE1:CO,PO,PSOMAPPING

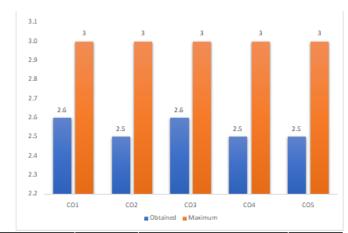
Courseo utcomes]	Programn	ProgramSpecific outcomes								
utcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4	
1	Н		Н						Н		Н		
2	H		Н						H		H		
3	H		H						Н		H		
4	Н		H						Н		Н		
5	Н		Н						S		Н		

H:HighlySupportive

S:Supportive



OUTCOME	PO1	1	PO2	PO	3	PO4	PO5	PO6	PO7	PO8
CO1	Н	2.6		н	2.6					
CO2	н	2.5		н	2.5					
CO3	н	2.6		н	2.6					
CO4	н	2.5		н	2.5					
CO5	н	2.5		н	2.5					
AVERAGE OF COS FOR POS	2.54	4		2.5	4					
AVERAGE OF POS		2.528			2.528					
AVERAGE							2.528			





co	mid	exam 1	mie	d exam 2	group	discussion	as	signment		viva	At	Attendence		External Exam		Exam	
	pass%	Attainment	co wise internal	pass%	Attainment	co wise external	co wise total										
	passzo	level	passio	level	average	pass ₇₀	level	average	average								
CO1	90.5	3.0			100.0	3.0	87.4	3.0	67.4	1.0	64.2	0.0	2.0	91.6	3.0	3.0	2.6
CO2	90.5	3.0			100.0	3.0			67.4	1.0	64.2	0.0	1.8	91.6	3.0	3.0	2.5
CO3	90.5	3.0	94.7	3.0	100.0	3.0			67.4	1.0	64.2	0.0	2.0	91.6	3.0	3.0	2.6
CO4			94.7	3.0	100.0	3.0			67.4	1.0	64.2	0.0	1.8	91.6	3.0	3.0	2.5
COS			94.7	3.0	100.0	3.0			67.4	1.0	64.2	0.0	1.8	91.6	3.0	3.0	2.5

AVERAGE	AVERAGE
3	2.54

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSETITLE: CROP PRODUCTION TECHNOLOGY -2 (Rabi crops)

COURSECODE:AG19401

CREDITS: 2

DEPARTMENT:B.Sc.(Hons.)AGRICULTURALSCIENCE

PROGRAMMEOUTCOMES(BA/BSC/BCOMandBBA)OrPOs:

PO1.Scientificknowledge:Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety , and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4.Moderntoolusage:create, select and apply appropriate techniques,resources,modern technology and IT tools to complex science and technological activities.

PO5.Environmentandsustainability: understand the impact of professional science and technological solutions in societal and environmental

context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organisation.

	COURSEOUTCOMES	BLOOM'STAXONOMYLEVEL
CO1	Explains various crop production techniques from sowing to harvest for various oil seeds	II (UNDERSTAND)
CO2	Explains various crop production techniques from sowing to harvest for various cereal crops	II (UNDERSTAND)
CO3	Explains various crop production techniques from sowing to harvest for various legume crops	IV (ANALYSE)
CO4	Explains various crop production techniques from sowing to harvest for fibre crops	IV (ANALYSE)
CO5	Explains various crop production techniques from sowing to harvest for commercial crops	II (UNDERSTAND)

TABLE1:CO,PO,PSOMAPPING

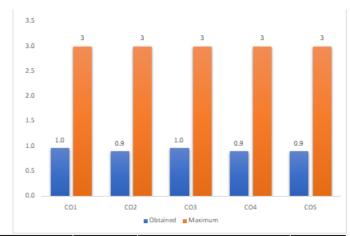
Courseo utcomes]	Programn	neOutcom		ProgramSpecific outcomes						
utcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4	
1	Н		H						H		Н		
2	Н		H						Н		Н		
3	Н		H						H		Н		
4	Н		H						H		Н		
5	Н		Н						S		Н		

H:HighlySupportive

S:Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 0.96		H 0.96					
CO2	H 0.9		H 0.9					
CO3	H 0.96		H 0.96					
CO4	H 0.9		H 0.9					
CO5	H 0.9		H 0.9					
AVERAGE OF COS FOR POS	0.924		0.924					
AVERAGE OF POS	0.9168		0.9168					
AVERAGE					0.9168			





со	mid	exam 1	mi	d exam 2	group	odiscussion	as	signment		viva	Attendence			External Exam			
	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	pass%	Attainment	co wise internal	pass%	Attainment	co wise external	co wise total
	passio	level	passio	level	passie	level	passie	level	passio	level	passie	level	average	passie	level	average	average
CO1	93.5	3.0			82.6	2.0	98.9	3.0	98.9	3.0	71.7	1.0	2.4	55.4	0.0	0.0	1.0
CO2	93.5	3.0			82.6	2.0			98.9	3.0	71.7	1.0	2.3	55.4	0.0	0.0	0.9
CO3	93.5	3.0	93.5	3.0	82.6	2.0			98.9	3.0	71.7	1.0	2.4	55.4	0.0	0.0	1.0
CO4			93.5	3.0	82.6	2.0			98.9	3.0	71.7	1.0	2.3	55.4	0.0	0.0	0.9
COS			93.5	3.0	82.6	2.0			98.9	3.0	71.7	1.0	2.3	55.4	0.0	0.0	0.9

AVERAGE	AVERAGE
0	0.924

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSETITLE: FUNDAMENTALS OF AGRONOMY & AGRICULTURAL HERITAGE

COURSECODE:AG18101

CREDITS: 2

DEPARTMENT:B.Sc.(Hons.)AGRICULTURALSCIENCE

PROGRAMMEOUTCOMES(BA/BSC/BCOMandBBA)OrPOs:

PO1.Scientificknowledge:Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety , and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusions using first principles of mathematics of natural sciences and engineering sciences

PO4.Moderntoolusage:create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5.Environmentandsustainability: understand the impact of professional science and technological solutions in societal and environmental

context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organisation.

	COURSEOUTCOMES	BLOOM'STAXONOMYLEVEL
CO1	Classify agro climatic zones of India and Telangana, explain various methods of sowing and tillage.	III (APPLY)
CO2	List of various methods of weed control and irrigation	VI (CREATE)
CO3	Classify manures and fertilizers and explain plant ideotypes	VI (CREATE)
CO4	Explain various practices of indigenous technology	III (APPLY)

CO5	Describe agricultural heritage, different civilizations and history of agriculture development	III (APPLY)

TABLE1:CO,PO,PSOMAPPING

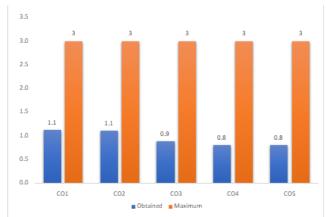
Courseo utcomes]	Programn	ProgramSpecific outcomes								
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PSO1	PSO2	PSO3	PSO4	
1	Н		H						Н		Н		
2	Н		Н						S		Н		
3	Н		H						H		H		
4	Н		Н						Н		Н		
5	Н		Н						S		Н		

H:HighlySupportive

S:Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 1.12		H 1.12					
CO2	H 1.1		H 1.1					
CO3	H 0.88		H 0.88					
CO4	H 0.8		H 0.8					
CO5	H 0.8		H 0.8					
AVERAGE OF COS FOR POS	0.94		0.94					
AVERAGE OF POS	0.904		0.904					
AVERAGE					0.904			





со	mid	exam 1	mid exam 2		group discussion		assignment			viva	At	ttendence		Externa		Exam	
	pass%	Attainment	pass% Attainmen	Attainment	0000%	Attainment	0000%	pass% Attainment pass% level	0000%	Attainment	pass%	Attainment	co wise internal	pass%	Attainment	co wise external	co wise total
	passio	level	passzo	level	pass%	level	passzo		passzo	level	passio	level	average	pass <i>i</i> o	level	average	average
CO1	100.0	3.0			100.0	3.0	100.0	3.0	100.0	3.0	81.2	2.0	2.8	29.7	0.0	0.0	1.1
CO2	100.0	3.0			100.0	3.0			100.0	3.0	81.2	2.0	2.8	29.7	0.0	0.0	1.1
COB	100.0	3.0	64.4	0.0	100.0	3.0			100.0	3.0	81.2	2.0	2.2	29.7	0.0	0.0	0.9
CO4			64.4	0.0	100.0	3.0			100.0	3.0	81.2	2.0	2.0	29.7	0.0	0.0	0.8
CO5			64.4	0.0	100.0	3.0			100.0	3.0	81.2	2.0	2.0	29.7	0.0	0.0	0.8

AVERAGE	AVERAGE
0	0.94

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: RAINFED AGRI AND WATERSHED MANAGEMENT

COURSE CODE: AG20501

CREDITS: 1

DEPARTMENT: B.Sc. (Hons.) AGRICULTURAL SCIENCE

PROGRAMME OUTCOMES (BA/BSC/BCOM and BBA) Or POs:

PO1. Scientific knowledge: Apply the knowledge of science, mathematics, engineering and technology, fundamentals to solve the complex problems

PO2. Design/development of solutions: design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations

PO3. Problem analysis: identify, formulate, research literature and analyse complex scientific problems reaching substantiated conclusionsusing first principles of mathematics of natural sciences and engineering sciences

PO4. Modern tool usage: create, select and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

PO5. Environment and sustainability: understand the impact of professional science and technological solutions in societal and environmental

context and for sustainable development

PO6. Individual and teamwork: function objectively as an individual and as a member in diverse teams

PO7. Communication: communicate effectively on complex science and technology activities with society at large and able to write effective reports on documentation.

PO8. Lifelong learning: recognise the need and ability to engage in independent and lifelong learning in then context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

PSO1. Knowledge on crop production and crop improvement techniques

PSO2. Knowledge on farm management economics, various agricultural extension methods and communication techniques to serve farming community and industries

PSO3. TO develop scientific, technical and practical skills related to lab and field in various plant and animal related courses with critical thinking and strong ethical foundation

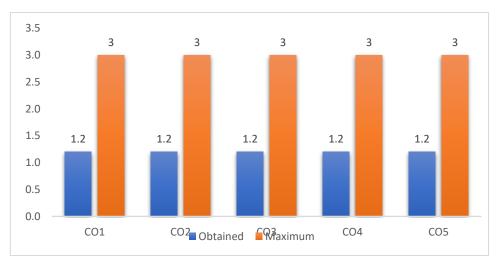
PSO4. Develops entrepreneurship qualities at various levels by taking apt decisions top enhance the success of an agricultural enterprise or an organisation.

	COURSE OUTCOMES	BLOOM'S TAXONOMY LEVEL
CO1	Describe watershed concepts and classify drought	II Understanding
CO2	Explain problems of crop production in drylands	IV Analysing
CO3	Explain fertilizer use in dry land agriculture and contigent crop planning	I Remembering
CO4	Explain water harvesting techniques and watershed management	II Understanding
CO5	Classify alternate land use systems	I Remembering

TABLE 1: CO, PO, PSO MAPPING

outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	Н		Н	S			S	S		S		Н
C02	S		H	S			Н	S		S		Н
C03	Η		Н	Н	Н		Н	S		H		Н
C04	H		H	Η	S		H	S		H		S
C05	Н		H	Н	S		S	Н		Η		Н

H: Highly Supportive S: Supportive



со	mic	d exam 1	mic	l exam 2	group discussion		assi	gnment		viva	Atte	endence			External Exa	m	
	pass %	Attainme nt level	pass %	Attainme nt level	pass %	Attainme nt level	pass %	Attainme nt level	pass %	Attainme nt level	pass %	Attainme nt level	co wise intern al avera ge	pass %	Attainme nt level	co wise extern al averag e	co wise total avera ge
CO 1	93.3	3.0			98.9	3.0	97.8	3.0	100. 0	3.0	100. 0	3.0	3.0	50.0	0.0	0.0	1.2
CO 2	93.3	3.0			98.9	3.0			100. 0	3.0	100. 0	3.0	3.0	50.0	0.0	0.0	1.2
CO 3	93.3	3.0	97.8	3.0	98.9	3.0			100. 0	3.0	100. 0	3.0	3.0	50.0	0.0	0.0	1.2
CO 4			97.8	3.0	98.9	3.0			100. 0	3.0	100. 0	3.0	3.0	50.0	0.0	0.0	1.2
CO 5			97.8	3.0	98.9	3.0			100. 0	3.0	100. 0	3.0	3.0	50.0	0.0	0.0	1.2
	AVERAGE		AVERAGE														
	0		1.2	2													

OUTCOME	P	01	PO2	P	03	F	PO4	P	05	PO6	Р	07	P	3C
CO1	Н	1.2		Н	1.2									
CO2				Н	1.2						н	1.2		
CO3	Н	1.2		Н	1.2	Н	1.2	Н	1.2		Н	1.2		
CO4	н	1.2		Н	1.2	н	1.2				н	1.2		
CO5	Н	1.2		Н	1.2	Н	1.2						Н	1.2
AVERAGE OF COS FOR POS	1.2			1.2		1.2		-	1.2		1.2		1.2	
AVERAGE OF POS		1.2			1.2		1.2		1.2			1.2		1.2
AVERAGE			1.2											