

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: CROP PRODUCTION TECHNOLOGY -1 (Kharif crops)

COURSE CODE: AG19301

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
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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)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
1	H		H						H		H	

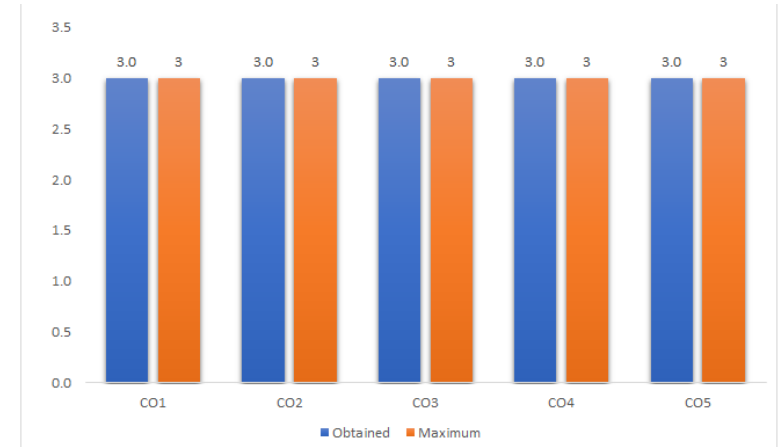
2	H		H						H		H		
3	H		H						H		H		
4	H		H						H		H		
5	H		H						S		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 3		H 3					
CO2	H 3		H 3	H 3			H 3	
CO3	H 3		H 3	H 3	H 3		H 3	
CO4	H 3		H 3	H 3			H 3	
CO5	H 3		H 3	H 3				H 3
AVERAGE OF COS FOR POS	3		3	3	3		3	3
AVERAGE OF POS	3		3	3	3		3	3
AVERAGE	3							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		co wise internal average	External Exam			co wise total average
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level		pass%	Attainment level	co wise external average	
CO1	100.0	3.0			94.7	3.0	90.5	3.0	90.5	3.0	93.7	3.0	3.0	98.9	3.0	3.0	3.0
CO2	100.0	3.0			94.7	3.0			90.5	3.0	93.7	3.0	3.0	98.9	3.0	3.0	3.0
CO3	100.0	3.0	100.0	3.0	94.7	3.0			90.5	3.0	93.7	3.0	3.0	98.9	3.0	3.0	3.0
CO4			100.0	3.0	94.7	3.0			90.5	3.0	93.7	3.0	3.0	98.9	3.0	3.0	3.0
CO5			100.0	3.0	94.7	3.0			90.5	3.0	93.7	3.0	3.0	98.9	3.0	3.0	3.0

AVERAGE	AVERAGE
3	3

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
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CO1	Identify different diseases of cereal crops and gain knowledge about their management	IV (ANALYSE)
CO2	Identify different diseases of sugarcane, Cotton, Tobacco, Castor, Groundnut and gain knowledge about their management	II (UNDERSTAND)
CO3	Identify different diseases of oil seeds and gain knowledge about their management	II (UNDERSTAND)
CO4	Identify different diseases pulse crops and gain knowledge about their management	II (UNDERSTAND)
CO5	Identify different diseases of fruit crops and gain knowledge about their management	III (APPLY)

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		
2	H		H						H		H		
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

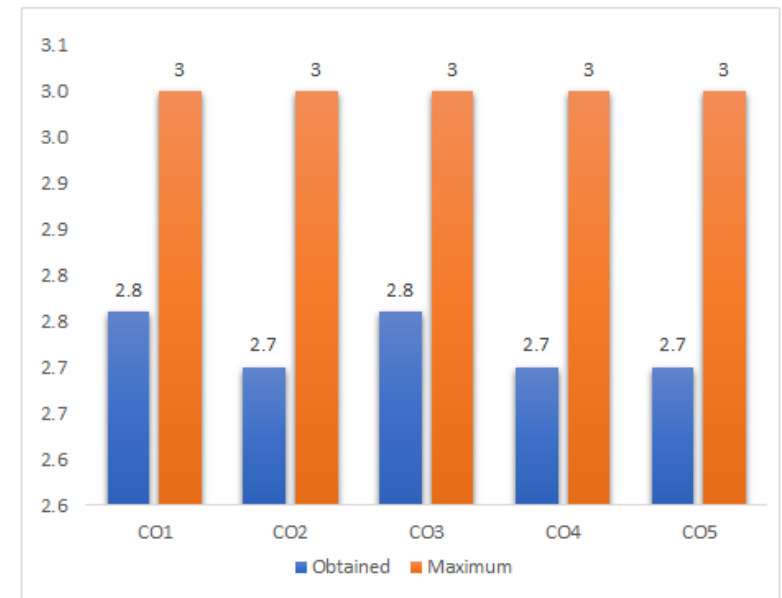
TABLE 1: CO, PO, PSO MAPPING

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
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 2.8		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	2.717		2.7168	2.715	2.8		2.72	2.7
AVERAGE	2.721433333							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		co wise internal average	External Exam			co wise total average
	pass%	Attainment level	pass %	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level		pass%	Attainment level	co wise external average	
CO1	100.0	3.0			100.0	3.0	88.2	3.0	95.1	3.0	8.8	0.0	2.4	97.1	3.0	3.0	2.8
CO2	100.0	3.0			100.0	3.0			95.1	3.0	8.8	0.0	2.3	97.1	3.0	3.0	2.7
CO3	100.0	3.0	100.0	3.0	100.0	3.0			95.1	3.0	8.8	0.0	2.4	97.1	3.0	3.0	2.8
CO4			100.0	3.0	100.0	3.0			95.1	3.0	8.8	0.0	2.3	97.1	3.0	3.0	2.7
CO5			100.0	3.0	100.0	3.0			95.1	3.0	8.8	0.0	2.3	97.1	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: ELEMENTARY MATHEMATICS

COURSE CODE: AG19108

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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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

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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
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CO1	Define matrices and various operations involved with matrices	II (UNDERSTAND)
CO2	Distinguish between differentiation and integration and their applications	IV (ANALYSE)
CO3	Apply integrals to find area under simple curves	III (APPLY)
CO4	Analyze the dimensional figures like straight lines and circles.	III (APPLY)
CO5	Analyze operations related to two dimensional figures parabola and ellipse	III (APPLY)

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		
2	H		H						H		H		
3	H		H						H		H		

4	H		H						H		H		
5	H		H						H		H		

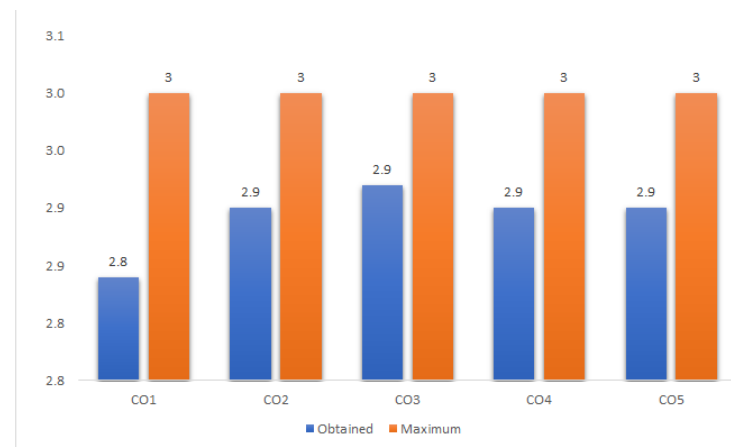
TABLE 1: CO, PO, PSO MAPPING

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.84		H 2.84					
CO2	H 2.9		H 2.9	H 2.9			H 2.9	
CO3	H 2.92		H 2.92	H 2.92	H 2.92		H 2.92	
CO4	H 2.9		H 2.9	H 2.9			H 2.9	
CO5	H 2.9		H 2.9	H 2.9				H 2.9
AVERAGE OF COS FOR POS	2.892		2.892	2.905	2.92		2.906666667	2.9
AVERAGE OF POS	2.9024		2.9024	2.905	2.92		2.90667	2.9
AVERAGE	2.906077778							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		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	92.2	3.0			93.3	3.0	82.2	2.0	88.9	3.0	78.9	2.0	2.6	100.0	3.0	3.0	2.8
CO2	92.2	3.0			93.3	3.0			88.9	3.0	78.9	2.0	2.8	100.0	3.0	3.0	2.9
CO3	92.2	3.0	92.2	3.0	93.3	3.0			88.9	3.0	78.9	2.0	2.8	100.0	3.0	3.0	2.9
CO4			92.2	3.0	93.3	3.0			88.9	3.0	78.9	2.0	2.8	100.0	3.0	3.0	2.9
CO5			92.2	3.0	93.3	3.0			88.9	3.0	78.9	2.0	2.8	100.0	3.0	3.0	2.9

AVERAGE	AVERAGE
3	2.9

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: FARM MANAGEMENT AND PRODUCTION ECONOMICS

COURSE CODE: AG 19305

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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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
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CO1	Analyze laws of returns and factor product relationship	IV (ANALYSE)
CO2	Judge input output relationship in agricultural production	IV (ANALYSE)
CO3	Apply cost analysis in agricultural production	III (APPLY)
CO4	Make up law of equi-marginal returns in agricultural production	III (APPLY)
CO5	Distinguish types and systems of farming	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		
2	H		H						H		H		

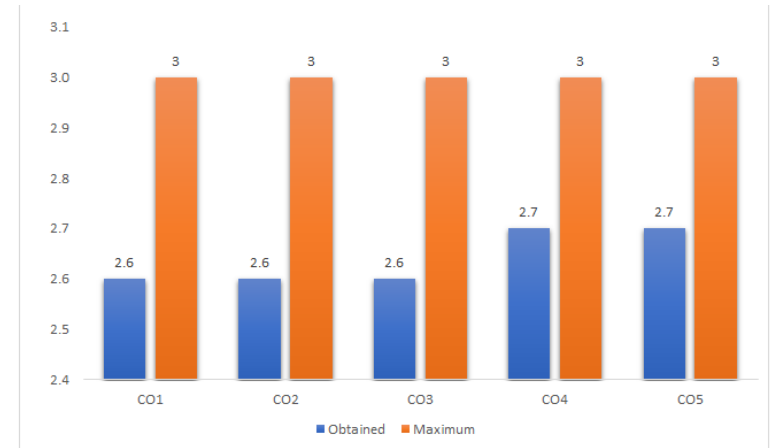
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.6		H 2.6					
CO2	H 2.6		H 2.6	H 2.6			H 2.6	
CO3	H 2.6		H 2.6	H 2.6	H 2.6		H 2.6	
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	2.64		2.64	2.65	2.6		2.633333333	2.7
AVERAGE OF POS	2.648		2.648	2.65	2.6		2.63333	2.7
AVERAGE	2.646555556							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		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	73.3	1.0			93.3	3.0	80.0	2.0	80.0	2.0	81.1	2.0	2.0	95.6	3.0	3.0	2.6
CO2	73.3	1.0			93.3	3.0			80.0	2.0	81.1	2.0	2.0	95.6	3.0	3.0	2.6
CO3	73.3	1.0	80.0	2.0	93.3	3.0			80.0	2.0	81.1	2.0	2.0	95.6	3.0	3.0	2.6
CO4			80.0	2.0	93.3	3.0			80.0	2.0	81.1	2.0	2.3	95.6	3.0	3.0	2.7
CO5			80.0	2.0	93.3	3.0			80.0	2.0	81.1	2.0	2.3	95.6	3.0	3.0	2.7

AVERAGE	AVERAGE
3	2.6

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

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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
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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 (CREATE)
CO4	Classify various harrows, cultivators and other implements	III (APPLY)
CO5	Sketches various fertilizer and seeding equipments	III (APPLY)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		S		
2	S		H						H		H		

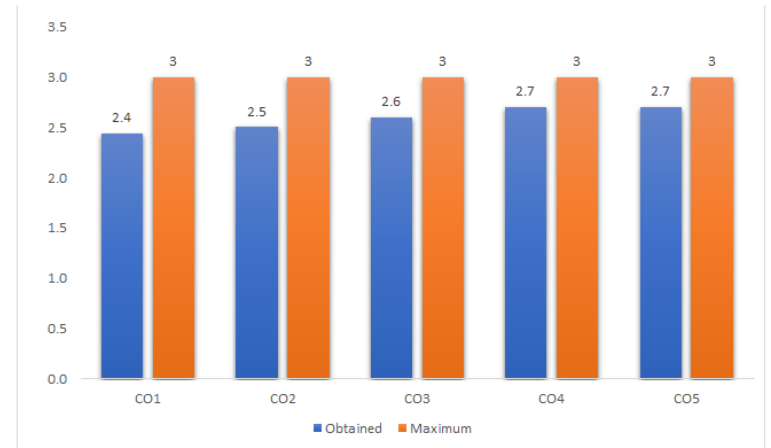
3	H		H						S		H		
4	H		H						H		H		
5	H		S						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.44		H 2.44					
CO2	H 2.5		H 2.5	H 2.5			H 2.5	
CO3	H 2.6		H 2.6	H 2.6	H 2.6		H 2.6	
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	2.588		2.588	2.625	2.6		2.6	2.7
AVERAGE OF POS	2.6176		2.6176	2.625	2.6		2.6	2.7
AVERAGE	2.6267							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		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	73.3	1.0			97.8	3.0	71.1	1.0	71.1	1.0	83.3	2.0	1.6	97.8	3.0	3.0	2.4
CO2	73.3	1.0			97.8	3.0			71.1	1.0	83.3	2.0	1.8	97.8	3.0	3.0	2.5
CO3	73.3	1.0	86.7	3.0	97.8	3.0			71.1	1.0	83.3	2.0	2.0	97.8	3.0	3.0	2.6
CO4			86.7	3.0	97.8	3.0			71.1	1.0	83.3	2.0	2.3	97.8	3.0	3.0	2.7
CO5			86.7	3.0	97.8	3.0			71.1	1.0	83.3	2.0	2.3	97.8	3.0	3.0	2.7

AVERAGE	AVERAGE
3	2.6

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: FUNDAMENTALS OF AGRICULTURAL ECONOMICS

COURSE CODE: AG18105

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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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	Explain basic concepts in micro economics	II (UNDERSTAND)
CO2	Distinguish consumer behaviour analysis, IC analysis and demand analysis	IV (ANALYSE)
CO3	Interrelate among production, cost concepts , supply and market structure	IV (ANALYSE)
CO4	Illustrate the functions of money and national income	II (UNDERSTAND)
CO5	Apply various economic systems in daily life	III (APPLY)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		
2	H		H						H		H		

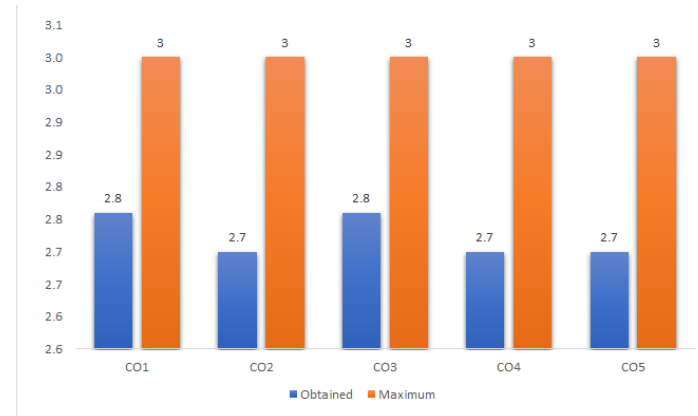
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
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	2.721433333							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		co wise internal average	External Exam			co wise total average
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level		pass%	Attainment level	co wise external average	
CO1	100.0	3.0			100.0	3.0	100.0	3.0	100.0	3.0	29.7	0.0	2.4	98.9	3.0	3.0	2.8
CO2	100.0	3.0			100.0	3.0			100.0	3.0	29.7	0.0	2.3	98.9	3.0	3.0	2.7
CO3	100.0	3.0	100.0	3.0	100.0	3.0			100.0	3.0	29.7	0.0	2.4	98.9	3.0	3.0	2.8
CO4			100.0	3.0	100.0	3.0			100.0	3.0	29.7	0.0	2.3	98.9	3.0	3.0	2.7
CO5			100.0	3.0	100.0	3.0			100.0	3.0	29.7	0.0	2.3	98.9	3.0	3.0	2.7

AVERAGE	AVERAGE
3	2.7

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: FUNDAMENTALS OF AGRONOMY & AGRICULTURAL HERITAGE

COURSE CODE: AG18101

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	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)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		

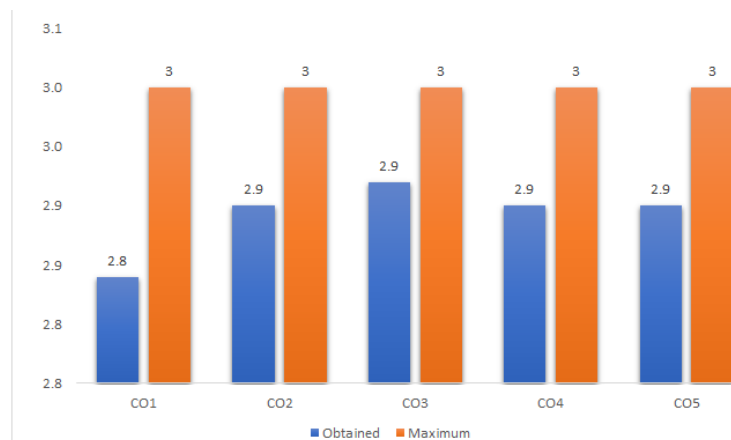
2	H		H						S		H		
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.84		H 2.84					
CO2	H 2.9		H 2.9	H 2.9			H 2.9	
CO3	H 2.92		H 2.92	H 2.92	H 2.92		H 2.92	
CO4	H 2.9		H 2.9	H 2.9			H 2.9	
CO5	H 2.9		H 2.9	H 2.9				H 2.9
AVERAGE OF COS FOR POS	2.892		2.892	2.905	2.92		2.906666667	2.9
AVERAGE OF POS	2.9024		2.9024	2.905	2.92		2.90667	2.9
AVERAGE	2.906077778							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		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	88.6	3.0			94.3	3.0	81.8	2.0	89.8	3.0	83.0	2.0	2.6	100.0	3.0	3.0	2.8
CO2	88.6	3.0			94.3	3.0			89.8	3.0	83.0	2.0	2.8	100.0	3.0	3.0	2.9
CO3	88.6	3.0	88.6	3.0	94.3	3.0			89.8	3.0	83.0	2.0	2.8	100.0	3.0	3.0	2.9
CO4			88.6	3.0	94.3	3.0			89.8	3.0	83.0	2.0	2.8	100.0	3.0	3.0	2.9
CO5			88.6	3.0	94.3	3.0			89.8	3.0	83.0	2.0	2.8	100.0	3.0	3.0	2.9

AVERAGE	AVERAGE
3	2.9

COURSE OUTCOME MAPPING

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

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	Explain the importance of crop physiology , crop water relations and seed germination	III (APPLY)
CO2	Apply the knowledge of photosynthesis and respiration in increasing crop productivity	II (UNDERSTAND)
CO3	Apply the knowledge of nutriio-physiology and flowering physiology in increasing crop productivity	III (APPLY)
CO4	Explains the role of plant growth regulators in agriculture and horticulture	II (UNDERSTAND)
CO5	Analyze growth and development of major crops	IV (ANALYSE)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	S		H						H		H		
2	H		H						H		S		

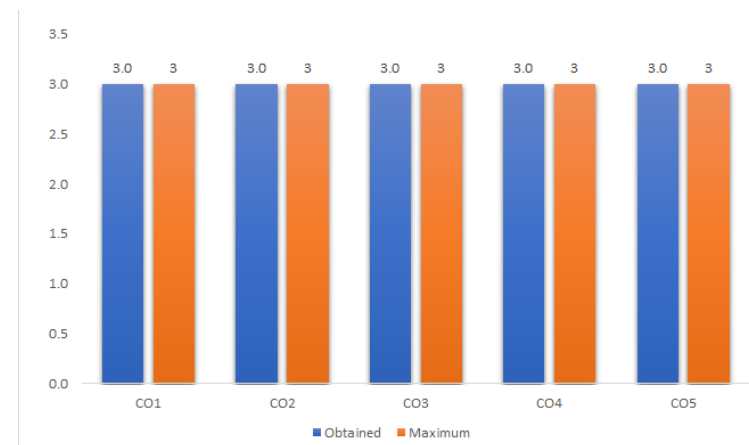
3	H		H						H		H		
4	H		S						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 3		H 3					
CO2	H 3		H 3	H 3			H 3	
CO3	H 3		H 3	H 3	H 3		H 3	
CO4	H 3		H 3	H 3			H 3	
CO5	H 3		H 3	H 3				H 3
AVERAGE OF COS FOR POS	3		3	3	3		3	3
AVERAGE OF POS	3		3	3	3		3	3
AVERAGE	3							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		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	100.0	3.0			94.7	3.0	90.5	3.0	90.5	3.0	93.7	3.0	3.0	98.9	3.0	3.0	3.0
CO2	100.0	3.0			94.7	3.0			90.5	3.0	93.7	3.0	3.0	98.9	3.0	3.0	3.0
CO3	100.0	3.0	100.0	3.0	94.7	3.0			90.5	3.0	93.7	3.0	3.0	98.9	3.0	3.0	3.0
CO4			100.0	3.0	94.7	3.0			90.5	3.0	93.7	3.0	3.0	98.9	3.0	3.0	3.0
CO5			100.0	3.0	94.7	3.0			90.5	3.0	93.7	3.0	3.0	98.9	3.0	3.0	3.0

AVERAGE	AVERAGE
3	3

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: FUNDAMENTALS OF GENETICS

COURSE CODE: AG18102

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.

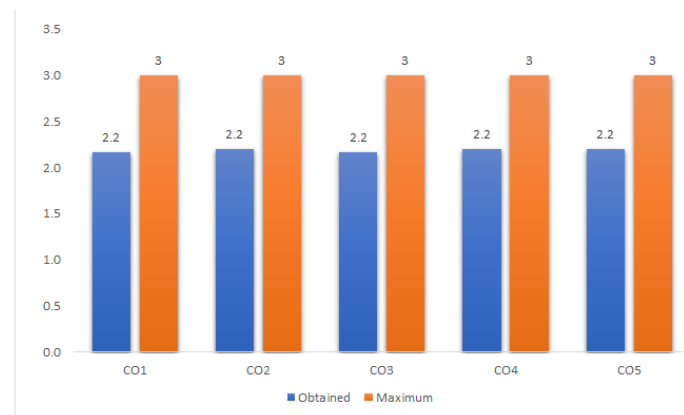
1	H		S						H		H		
2	S		H						H		H		
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		S		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.16		H 2.16					
CO2	H 2.2		H 2.2					
CO3	H 2.16		H 2.16					
CO4	H 2.2		H 2.2					H 2.2
CO5	H 2.2		H 2.2					
AVERAGE OF COS FOR POS	2.184		2.184					2.2
AVERAGE OF POS	2.1888		2.1888					2.2
AVERAGE	2.192533333							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		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	81.3	2.0			95.8	3.0	81.3	2.0	81.3	2.0	85.4	3.0	2.4	83.3	2.0	2.0	2.2
CO2	81.3	2.0			95.8	3.0			81.3	2.0	85.4	3.0	2.5	83.3	2.0	2.0	2.2
CO3	81.3	2.0	81.3	2.0	95.8	3.0			81.3	2.0	85.4	3.0	2.4	83.3	2.0	2.0	2.2
CO4			81.3	2.0	95.8	3.0			81.3	2.0	85.4	3.0	2.5	83.3	2.0	2.0	2.2
CO5			81.3	2.0	95.8	3.0			81.3	2.0	85.4	3.0	2.5	83.3	2.0	2.0	2.2

AVERAGE	AVERAGE
2	2.2

COURSE OUTCOME MAPPING

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. 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
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CO1	Define various branches of Horticulture.	IV (ANALYSE)
CO2	Distinguish methods of Propagation.	VI (CREATE)
CO3	Identify and explain various vegetative propagation Method	IV (ANALYSE)
CO4	Distinguish and differentiate growth regulators and effects	III (APPLY)
CO5	Classify and compare irrigation and fertilizer application methods	III (APPLY)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		
2	H		H						H		H		

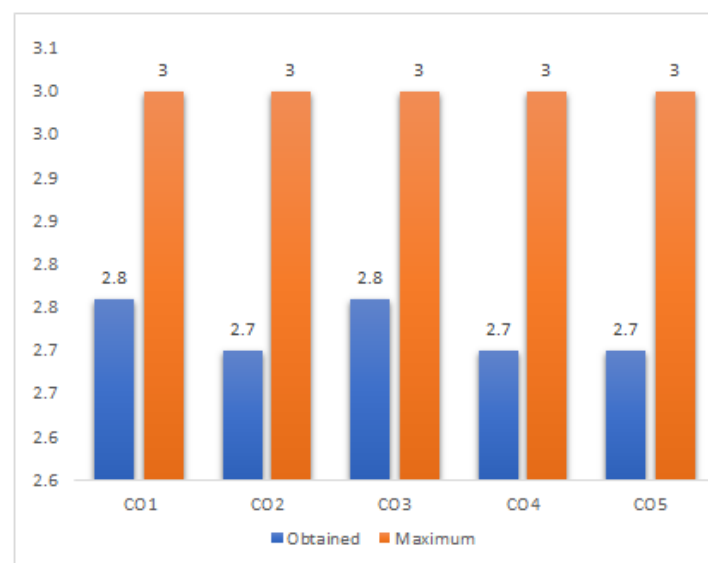
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
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 2.8		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	2.717		2.7168	2.715	2.8		2.72	2.7
AVERAGE	2.721433333							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		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	100.0	3.0			100.0	3.0	88.2	3.0	95.1	3.0	8.8	0.0	2.4	97.1	3.0	3.0	2.8
CO2	100.0	3.0			100.0	3.0			95.1	3.0	8.8	0.0	2.3	97.1	3.0	3.0	2.7
CO3	100.0	3.0	100.0	3.0	100.0	3.0			95.1	3.0	8.8	0.0	2.4	97.1	3.0	3.0	2.8
CO4			100.0	3.0	100.0	3.0			95.1	3.0	8.8	0.0	2.3	97.1	3.0	3.0	2.7
CO5			100.0	3.0	100.0	3.0			95.1	3.0	8.8	0.0	2.3	97.1	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: 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
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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)
CO5	Formulate special breeding methods	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		
2	S		H						H		H		

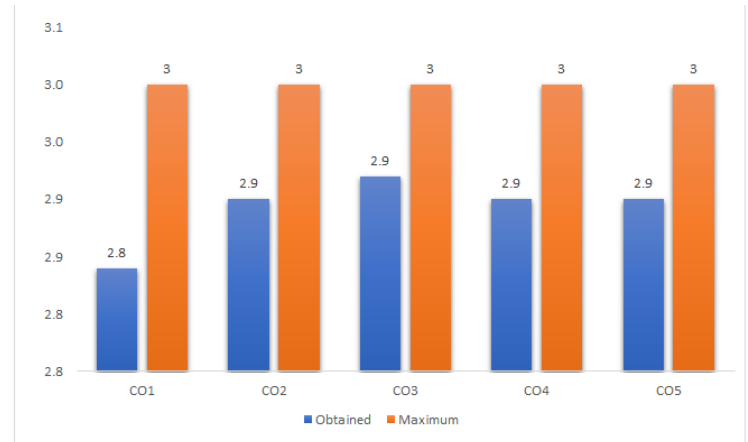
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		S		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.84		H 2.84					
CO2	H 2.9		H 2.9	H 2.9			H 2.9	
CO3	H 2.92		H 2.92	H 2.92	H 2.92		H 2.92	
CO4	H 2.9		H 2.9	H 2.9			H 2.9	
CO5	H 2.9		H 2.9	H 2.9				H 2.9
AVERAGE OF COS FOR POS	2.892		2.892	2.905	2.92		2.906666667	2.9
AVERAGE OF POS	2.9024		2.9024	2.905	2.92		2.90667	2.9
AVERAGE	2.906077778							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		External Exam			co wise total average	
	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
CO1	91.8	3.0			93.8	3.0	83.5	2.0	89.7	3.0	80.4	2.0	2.6	88.7	3.0	3.0	2.8
CO2	91.8	3.0			93.8	3.0			89.7	3.0	80.4	2.0	2.8	88.7	3.0	3.0	2.9
CO3	91.8	3.0	92.8	3.0	93.8	3.0			89.7	3.0	80.4	2.0	2.8	88.7	3.0	3.0	2.9
CO4			92.8	3.0	93.8	3.0			89.7	3.0	80.4	2.0	2.8	88.7	3.0	3.0	2.9
CO5			92.8	3.0	93.8	3.0			89.7	3.0	80.4	2.0	2.8	88.7	3.0	3.0	2.9

AVERAGE	AVERAGE
3	2.9

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: INSECT ECOLOGY AND IPM

COURSE CODE: AG 20304

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 the importance of biotic and abiotic factors in the life of insects	II (UNDERSTAND)
CO2	Explains the concepts of biological and chemical control	IV (ANALYSE)
CO3	Classify insecticides based on mode of action	II (UNDERSTAND)
CO4	Describes the recent techniques of pest control	III (APPLY)
CO5	Explains other insect and non-insect pests	IV (ANALYSE)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		S		
2	H		H						H		H		

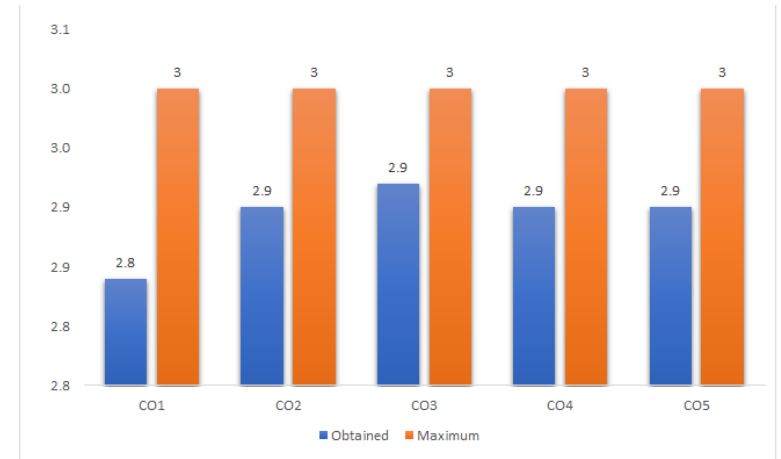
3	H		H						H		H		
4	H		H						H		H		
5	H		S						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.84		H 2.84					
CO2	H 2.9		H 2.9	H 2.9			H 2.9	
CO3	H 2.92		H 2.92	H 2.92	H 2.92		H 2.92	
CO4	H 2.9		H 2.9	H 2.9			H 2.9	
CO5	H 2.9		H 2.9	H 2.9				H 2.9
AVERAGE OF COS FOR POS	2.892		2.892	2.905	2.92		2.906666667	2.9
AVERAGE OF POS	2.9024		2.9024	2.905	2.92		2.90667	2.9
AVERAGE	2.906077778							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		co wise internal average	External Exam			
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level		pass%	Attainment level	co wise external average	co wise total average
CO1	88.6	3.0			94.3	3.0	81.8	2.0	89.8	3.0	83.0	2.0	2.6	100.0	3.0	3.0	2.8
CO2	88.6	3.0			94.3	3.0			89.8	3.0	83.0	2.0	2.8	100.0	3.0	3.0	2.9
CO3	88.6	3.0	88.6	3.0	94.3	3.0			89.8	3.0	83.0	2.0	2.8	100.0	3.0	3.0	2.9
CO4			88.6	3.0	94.3	3.0			89.8	3.0	83.0	2.0	2.8	100.0	3.0	3.0	2.9
CO5			88.6	3.0	94.3	3.0			89.8	3.0	83.0	2.0	2.8	100.0	3.0	3.0	2.9

AVERAGE	AVERAGE
3	2.9

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

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	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	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		

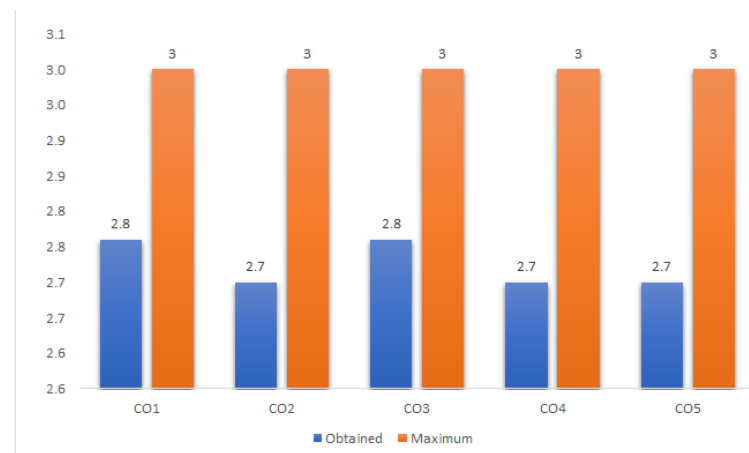
2	H		H						H		H		
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
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	2.721433333							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		co wise internal average	External Exam			
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level		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	31.4	0.0	2.4	100.0	3.0	3.0	2.8
CO2	100.0	3.0			100.0	3.0			100.0	3.0	31.4	0.0	2.3	100.0	3.0	3.0	2.7
CO3	100.0	3.0	100.0	3.0	100.0	3.0			100.0	3.0	31.4	0.0	2.4	100.0	3.0	3.0	2.8
CO4			100.0	3.0	100.0	3.0			100.0	3.0	31.4	0.0	2.3	100.0	3.0	3.0	2.7
CO5			100.0	3.0	100.0	3.0			100.0	3.0	31.4	0.0	2.3	100.0	3.0	3.0	2.7

AVERAGE	AVERAGE
3	2.7

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: PESTS OF CROPS, STORED GRAINS AND THEIR MANAGEMENT

COURSE CODE: AG20507

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
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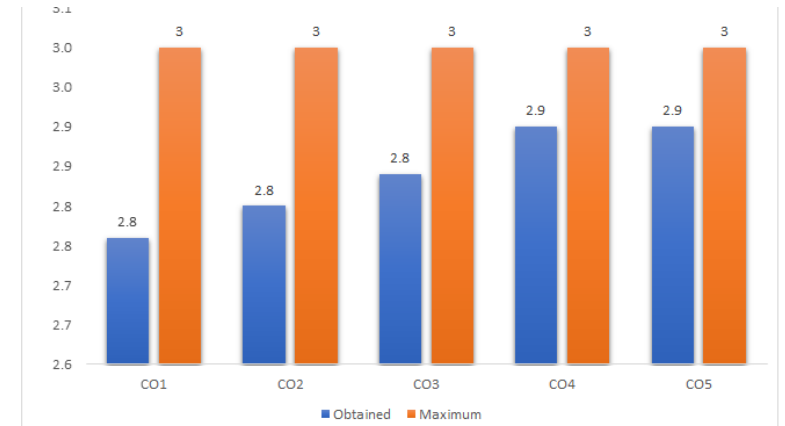
1	H		H						H		H		
2	H		H						H		H		
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.76		H 2.76					
CO2	H 2.8		H 2.8	H 2.8			H 2.8	
CO3	H 2.84		H 2.84	H 2.84	H 2.84		H 2.84	
CO4	H 2.9		H 2.9	H 2.9			H 2.9	
CO5	H 2.9		H 2.9	H 2.9				H 2.9
AVERAGE OF COS FOR POS	2.84		2.84	2.86	2.84		2.84666667	2.9
AVERAGE OF POS	2.856		2.856	2.86	2.84		2.84667	2.9
AVERAGE	2.85977778							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		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	76.7	2.0			95.6	3.0	84.4	2.0	84.4	2.0	86.7	3.0	2.4	95.6	3.0	3.0	2.8
CO2	76.7	2.0			95.6	3.0			84.4	2.0	86.7	3.0	2.5	95.6	3.0	3.0	2.8
CO3	76.7	2.0	86.7	3.0	95.6	3.0			84.4	2.0	86.7	3.0	2.6	95.6	3.0	3.0	2.8
CO4			86.7	3.0	95.6	3.0			84.4	2.0	86.7	3.0	2.8	95.6	3.0	3.0	2.9
CO5			86.7	3.0	95.6	3.0			84.4	2.0	86.7	3.0	2.8	95.6	3.0	3.0	2.9

AVERAGE	AVERAGE
3	2.8

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: PRINCIPLES OF FOOD SCIENCE AND NUTRITION

COURSE CODE: AG 19307

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
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CO1	Define food and explain the composition of food	III (APPLY)
CO2	Classify vitamins, minerals and other compounds	II (UNDERSTAND)
CO3	Explain the concept of food microbiology	IV (ANALYSE)
CO4	Explain preservation of food by various methods	IV (ANALYSE)
CO5	Analyze nutritional disorders	IV (ANALYSE)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		
2	H		H						H		H		

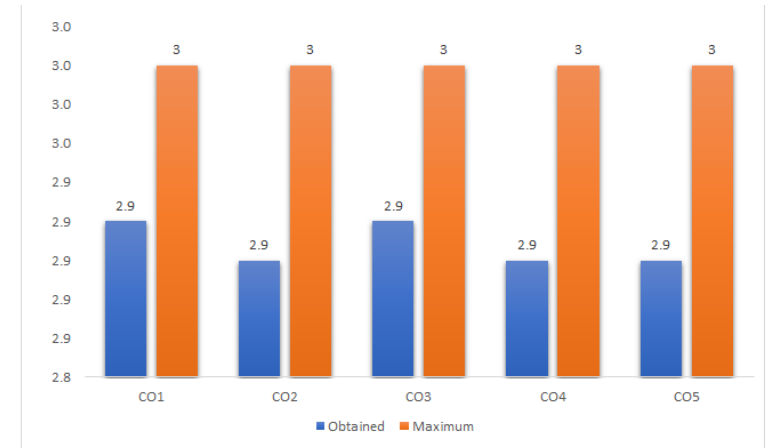
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.92		H 2.92					
CO2	H 2.9		H 2.9	H 2.9			H 2.9	
CO3	H 2.92		H 2.92	H 2.92	H 2.92		H 2.92	
CO4	H 2.9		H 2.9	H 2.9			H 2.9	
CO5	H 2.9		H 2.9	H 2.9				H 2.9
AVERAGE OF COS FOR POS	2.908		2.908	2.905	2.92		2.906666667	2.9
AVERAGE OF POS	2.9056		2.9056	2.905	2.92		2.90667	2.9
AVERAGE	2.907144444							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		co wise internal average	External Exam			
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level		pass%	Attainment level	co wise external average	co wise total average
CO1	100.0	3.0			100.0	3.0	98.0	3.0	90.8	3.0	75.5	2.0	2.8	100.0	3.0	3.0	2.9
CO2	100.0	3.0			100.0	3.0			90.8	3.0	75.5	2.0	2.8	100.0	3.0	3.0	2.9
CO3	100.0	3.0	98.0	3.0	100.0	3.0			90.8	3.0	75.5	2.0	2.8	100.0	3.0	3.0	2.9
CO4			98.0	3.0	100.0	3.0			90.8	3.0	75.5	2.0	2.8	100.0	3.0	3.0	2.9
CO5			98.0	3.0	100.0	3.0			90.8	3.0	75.5	2.0	2.8	100.0	3.0	3.0	2.9

AVERAGE	AVERAGE
3	2.9

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: PRINCIPLES OF INTEGRATED PEST & DISEASE MANAGEMENT

COURSE CODE: AG20505

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

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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. 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
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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	II (UNDERSTAND)
CO4	Explain different control methods of Integrated disease management	IV (ANALYSE)
CO5	Explain different methods of disease forecasting and implementation of different IDM modules	IV (ANALYSE)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		

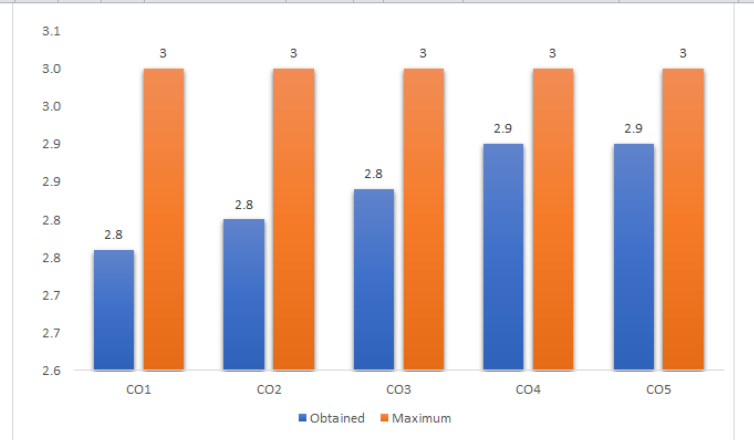
2	H		H						H		H		
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.76		H 2.76					
CO2	H 2.8		H 2.8	H 2.8			H 2.8	
CO3	H 2.84		H 2.84	H 2.84	H 2.84		H 2.84	
CO4	H 2.9		H 2.9	H 2.9			H 2.9	
CO5	H 2.9		H 2.9	H 2.9				H 2.9
AVERAGE OF COS FOR POS	2.84		2.84	2.86	2.84		2.846666667	2.9
AVERAGE OF POS	2.856		2.856	2.86	2.84		2.84667	2.9
AVERAGE	2.85977778							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		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	76.7	2.0			95.6	3.0	84.4	2.0	84.4	2.0	86.7	3.0	2.4	95.6	3.0	3.0	2.8
CO2	76.7	2.0			95.6	3.0			84.4	2.0	86.7	3.0	2.5	95.6	3.0	3.0	2.8
CO3	76.7	2.0	86.7	3.0	95.6	3.0			84.4	2.0	86.7	3.0	2.6	95.6	3.0	3.0	2.8
CO4			86.7	3.0	95.6	3.0			84.4	2.0	86.7	3.0	2.8	95.6	3.0	3.0	2.9
CO5			86.7	3.0	95.6	3.0			84.4	2.0	86.7	3.0	2.8	95.6	3.0	3.0	2.9

AVERAGE	AVERAGE
3	2.8

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: PRINCIPLES OF ORGANIC FARMING (GE)

COURSE CODE: G19AG1T

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	Analyse the need of Organic farming	IV (ANALYSE)
CO2	Understand the steps in Organic farming	II (UNDERSTAND)
CO3	Understand the need of cultivation practices	II (UNDERSTAND)
CO4	Classify the types of manures and fertilizers	III (APPLY)
CO5	Illustrate the types of bio-fertilizers	III (APPLY)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		
2	H		H						H		H		

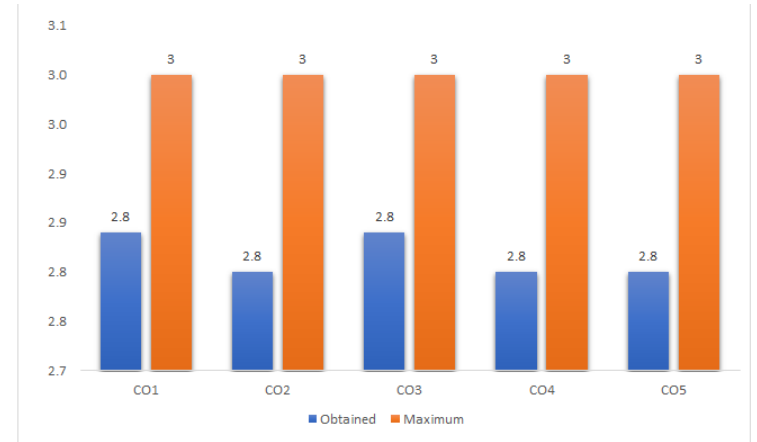
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.84		H 2.84					
CO2	H 2.8		H 2.8	H 2.8			H 2.8	
CO3	H 2.84		H 2.84	H 2.84	H 2.84		H 2.84	
CO4	H 2.8		H 2.8	H 2.8			H 2.8	
CO5	H 2.8		H 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	2.8112		2.8112	2.81	2.84		2.813333	2.8
AVERAGE	2.814288889							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		co wise internal average	External Exam			co wise total average
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level		pass%	Attainment level	co wise external average	
CO1	100.0	3.0			100.0	3.0	99.0	3.0	91.0	3.0	75.0	1.0	2.6	99.0	3.0	3.0	2.8
CO2	100.0	3.0			100.0	3.0			91.0	3.0	75.0	1.0	2.5	99.0	3.0	3.0	2.8
CO3	100.0	3.0	99.0	3.0	100.0	3.0			91.0	3.0	75.0	1.0	2.6	99.0	3.0	3.0	2.8
CO4			99.0	3.0	100.0	3.0			91.0	3.0	75.0	1.0	2.5	99.0	3.0	3.0	2.8
CO5			99.0	3.0	100.0	3.0			91.0	3.0	75.0	1.0	2.5	99.0	3.0	3.0	2.8

AVERAGE	AVERAGE
3	2.8

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: PROBLEMATIC SOILS AND THEIR MANAGEMENT

COURSE CODE: AG20508

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. 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	To understand the formation of problematic soils.	III (APPLY)
CO2	To understand the quality of irrigation water	II (UNDERSTAND)
CO3	To formulate various management methods to reclaim problem soils	VI (CREATE)
CO4	To evaluate quality of irrigation water and management methods	IV (ANALYSE)
CO5	Application of technology to evaluate problem soils	IV (ANALYSE)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		
2	H		H						H		H		

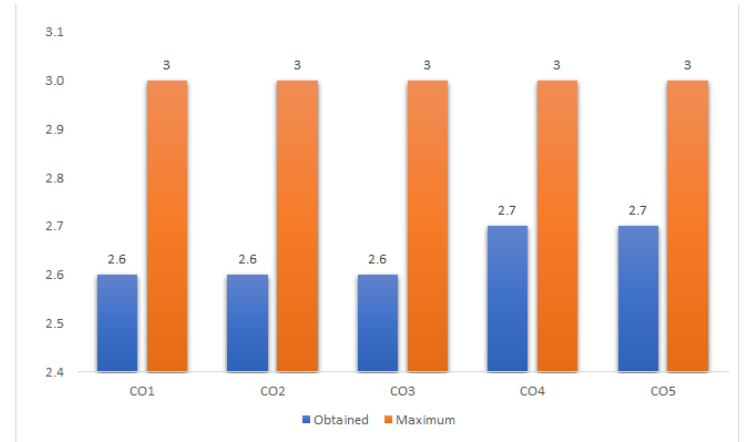
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.6		H 2.6					
CO2	H 2.6		H 2.6	H 2.6			H 2.6	
CO3	H 2.6		H 2.6	H 2.6	H 2.6		H 2.6	
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	2.64		2.64	2.65	2.6		2.633333333	2.7
AVERAGE OF POS	2.648		2.648	2.65	2.6		2.63333	2.7
AVERAGE	2.646555556							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		co wise internal average	External Exam			
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level		co wise external average	co wise total average		
CO1	73.3	1.0			93.3	3.0	80.0	2.0	80.0	2.0	81.1	2.0	2.0	95.6	3.0	3.0	2.6
CO2	73.3	1.0			93.3	3.0			80.0	2.0	81.1	2.0	2.0	95.6	3.0	3.0	2.6
CO3	73.3	1.0	80.0	2.0	93.3	3.0			80.0	2.0	81.1	2.0	2.0	95.6	3.0	3.0	2.6
CO4			80.0	2.0	93.3	3.0			80.0	2.0	81.1	2.0	2.3	95.6	3.0	3.0	2.7
CO5			80.0	2.0	93.3	3.0			80.0	2.0	81.1	2.0	2.3	95.6	3.0	3.0	2.7

AVERAGE	AVERAGE
3	2.6

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: PRODUCTION TECHNOLOGY OF FRUITS AND PLANTATION CROPS

COURSE CODE: AG20506

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. 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
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CO1	Plan for laying out of orchard.	III (APPLY)
CO2	Identify problems in raising of Mango, Banana, Sapota crops	II (UNDERSTAND)
CO3	Demonstrate the methods of planting and regulating flowering and fruiting in citrus, Guava, Papaya	III (APPLY)
CO4	Demonstrate the methods of planting and regulating flowering and fruiting in pineapple, to select suitable training and pruning methods for Grape, Pomegranate andBer.	III (APPLY)
CO5	Demonstrate Production and processing of plantation crops.	IV (ANALYSE)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		

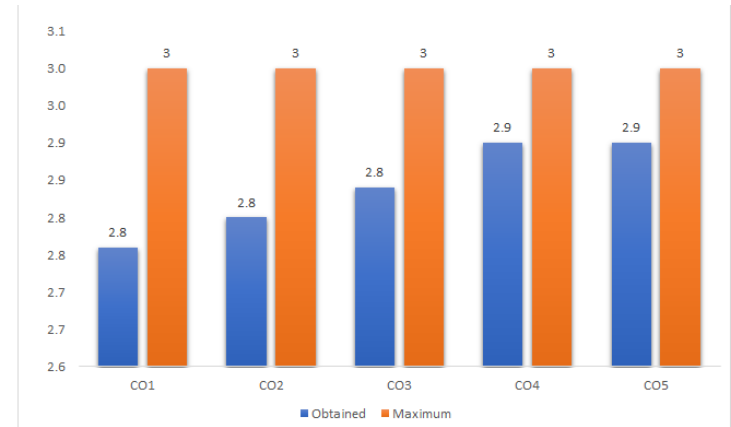
2	H		H						H		H		
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.76		H 2.76					
CO2	H 2.8		H 2.8	H 2.8			H 2.8	
CO3	H 2.84		H 2.84	H 2.84	H 2.84		H 2.84	
CO4	H 2.9		H 2.9	H 2.9			H 2.9	
CO5	H 2.9		H 2.9	H 2.9				H 2.9
AVERAGE OF COS FOR POS	2.84		2.84	2.86	2.84		2.84666667	2.9
AVERAGE OF POS	2.856		2.856	2.86	2.84		2.84667	2.9
AVERAGE	2.85977778							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		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	80.9	2.0			96.8	3.0	83.0	2.0	83.0	2.0	89.4	3.0	2.4	85.1	3.0	3.0	2.8
CO2	80.9	2.0			96.8	3.0			83.0	2.0	89.4	3.0	2.5	85.1	3.0	3.0	2.8
CO3	80.9	2.0	93.6	3.0	96.8	3.0			83.0	2.0	89.4	3.0	2.6	85.1	3.0	3.0	2.8
CO4			93.6	3.0	96.8	3.0			83.0	2.0	89.4	3.0	2.8	85.1	3.0	3.0	2.9
CO5			93.6	3.0	96.8	3.0			83.0	2.0	89.4	3.0	2.8	85.1	3.0	3.0	2.9

AVERAGE	AVERAGE
3	2.9

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: PRODUCTION TECHNOLOGY OF VEGETABLES AND SPICES

COURSE CODE: AG 19308

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

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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
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CO1	Describe various production techniques in Solanaceous vegetables.	II (UNDERSTAND)
CO2	Apply various cultural operations to produce cruciferous and leguminous vegetables	IV (ANALYSE)
CO3	Explain different cultivation practices in Cole, bulb and root crops	II (UNDERSTAND)
CO4	Explain different cultivation practices in tuber crops, leafy vegetables and perennial vegetables	III (APPLY)
CO5	Explain different cultivation practices in Spice crops.	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		
2	H		H						H		H		

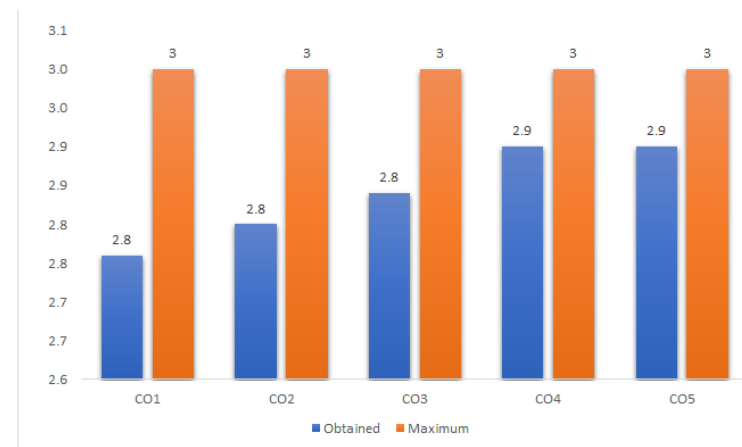
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.76		H 2.76					
CO2	H 2.8		H 2.8	H 2.8			H 2.8	
CO3	H 2.84		H 2.84	H 2.84	H 2.84		H 2.84	
CO4	H 2.9		H 2.9	H 2.9			H 2.9	
CO5	H 2.9		H 2.9	H 2.9				H 2.9
AVERAGE OF COS FOR POS	2.84		2.84	2.86	2.84		2.84666667	2.9
AVERAGE OF POS	2.856		2.856	2.86	2.84		2.84667	2.9
AVERAGE	2.85977778							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		co wise internal average	External Exam			
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level		pass%	Attainment level	co wise external average	co wise total average
CO1	80.9	2.0			96.8	3.0	83.0	2.0	83.0	2.0	89.4	3.0	2.4	85.1	3.0	3.0	2.8
CO2	80.9	2.0			96.8	3.0			83.0	2.0	89.4	3.0	2.5	85.1	3.0	3.0	2.8
CO3	80.9	2.0	93.6	3.0	96.8	3.0			83.0	2.0	89.4	3.0	2.6	85.1	3.0	3.0	2.8
CO4			93.6	3.0	96.8	3.0			83.0	2.0	89.4	3.0	2.8	85.1	3.0	3.0	2.9
CO5			93.6	3.0	96.8	3.0			83.0	2.0	89.4	3.0	2.8	85.1	3.0	3.0	2.9

AVERAGE	AVERAGE
3	2.9

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: RAINFED AGRICULTURE AND WATERSHED MANAGEMENT PRACTICALS

COURSE CODE: AG20511

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

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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	.	III (APPLY)
CO2		VI (CREATE)
CO3		VI (CREATE)
CO4		III (APPLY)
CO5		III (APPLY)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		
2	H		H						H		H		

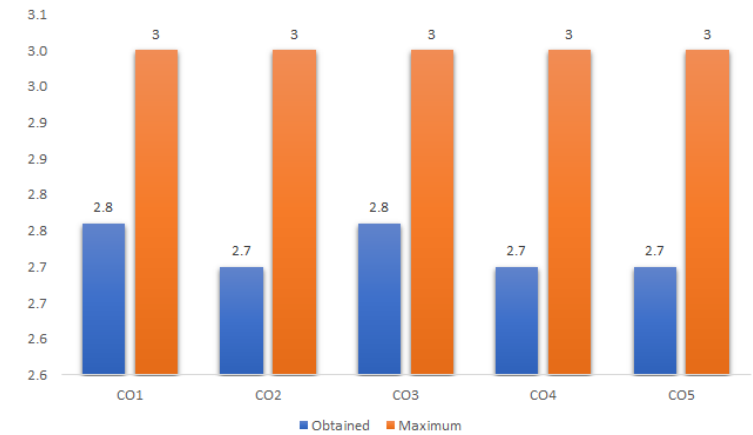
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
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	2.721433333							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		co wise internal average	External Exam			co wise total average
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level		pass%	Attainment level	co wise external average	
CO1	100.0	3.0			100.0	3.0	100.0	3.0	100.0	3.0	29.7	0.0	2.4	98.9	3.0	3.0	2.8
CO2	100.0	3.0			100.0	3.0			100.0	3.0	29.7	0.0	2.3	98.9	3.0	3.0	2.7
CO3	100.0	3.0	100.0	3.0	100.0	3.0			100.0	3.0	29.7	0.0	2.4	98.9	3.0	3.0	2.8
CO4			100.0	3.0	100.0	3.0			100.0	3.0	29.7	0.0	2.3	98.9	3.0	3.0	2.7
CO5			100.0	3.0	100.0	3.0			100.0	3.0	29.7	0.0	2.3	98.9	3.0	3.0	2.7

AVERAGE	AVERAGE
3	2.7

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

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

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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	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	Explain various practices of indigenous technology	III (APPLY)
CO5	Explain bio-diesel and ethanol production.	III (APPLY)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		

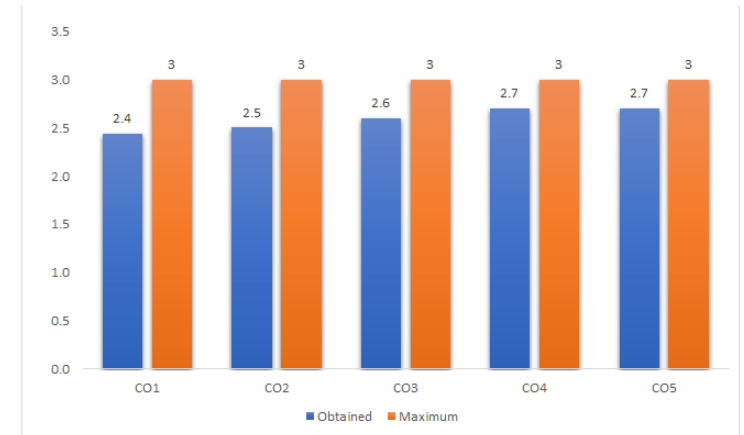
2	H		H						H		H		
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.44		H 2.44					
CO2	H 2.5		H 2.5	H 2.5			H 2.5	
CO3	H 2.6		H 2.6	H 2.6	H 2.6		H 2.6	
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	2.588		2.588	2.625	2.6		2.6	2.7
AVERAGE OF POS	2.6176		2.6176	2.625	2.6		2.6	2.7
AVERAGE	2.6267							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		co wise internal average	External Exam			
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level		co wise external average	co wise total average		
CO1	73.3	1.0			97.8	3.0	71.1	1.0	71.1	1.0	83.3	2.0	1.6	97.8	3.0	3.0	2.4
CO2	73.3	1.0			97.8	3.0			71.1	1.0	83.3	2.0	1.8	97.8	3.0	3.0	2.5
CO3	73.3	1.0	86.7	3.0	97.8	3.0			71.1	1.0	83.3	2.0	2.0	97.8	3.0	3.0	2.6
CO4			86.7	3.0	97.8	3.0			71.1	1.0	83.3	2.0	2.3	97.8	3.0	3.0	2.7
CO5			86.7	3.0	97.8	3.0			71.1	1.0	83.3	2.0	2.3	97.8	3.0	3.0	2.7

AVERAGE	AVERAGE
3	2.6

COURSE OUTCOME MAPPING

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 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
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CO1	Describe the importance of rural sociology in agriculture extension.	III (APPLY)
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 special emphasis on leadership, personality and motivation.	III (APPLY)
CO5	Apply various theories of motivation, intelligence, process of teaching and learning with special reference to extension teaching.	III (APPLY)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		

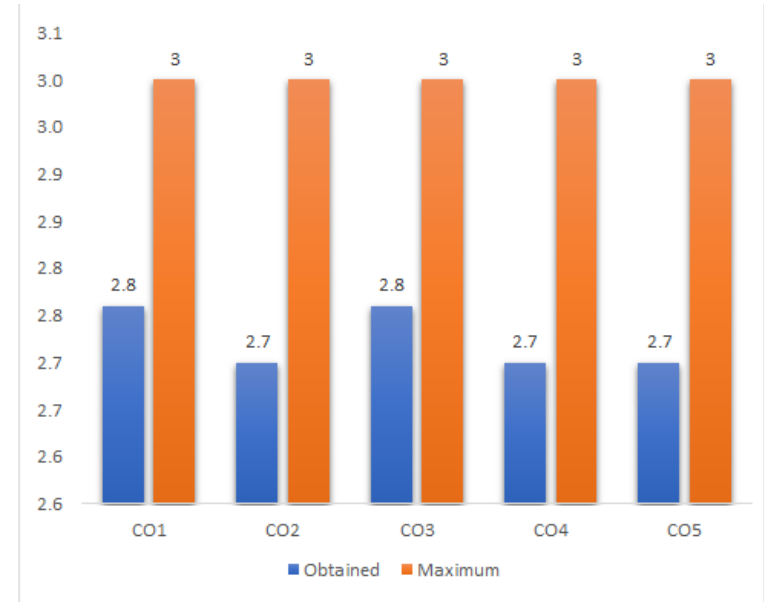
2	H		H						H		H		
3	H		H						H		H		
4	H		H						S		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
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	2.721433333							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		co wise internal average	External Exam			
	pass%	Attainment level	pass %	Attainment level	pass%	Attainment level	pass%	Attainment level	pass %	Attainment level	pass%	Attainment level		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	33.3	0.0	2.4	94.1	3.0	3.0	2.8
CO2	100.0	3.0			100.0	3.0			100.0	3.0	33.3	0.0	2.3	94.1	3.0	3.0	2.7
CO3	100.0	3.0	100.0	3.0	100.0	3.0			100.0	3.0	33.3	0.0	2.4	94.1	3.0	3.0	2.8
CO4			100.0	3.0	100.0	3.0			100.0	3.0	33.3	0.0	2.3	94.1	3.0	3.0	2.7
CO5			100.0	3.0	100.0	3.0			100.0	3.0	33.3	0.0	2.3	94.1	3.0	3.0	2.7

AVERAGE	AVERAGE
3	2.7

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: SOIL, WATER, PLANT AND SEED TESTING

COURSE CODE: AG22510B

CREDITS: 2+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. 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
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CO1	Analyses chemical properties of soil and their importance on Plant growth.	IV (ANALYSE)
CO2	Analyses physical properties of soil and their importance on Plant growth	IV (ANALYSE)
CO3	Interprets analytical data of various chemical and physical properties of soils	III (APPLY)
CO4	Demonstrates DRIS methods and its importance	II (UNDERSTAND)
CO5	Explains significance of seed and its characters on crop productivity	II (UNDERSTAND)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		
2	H		H						H		H		

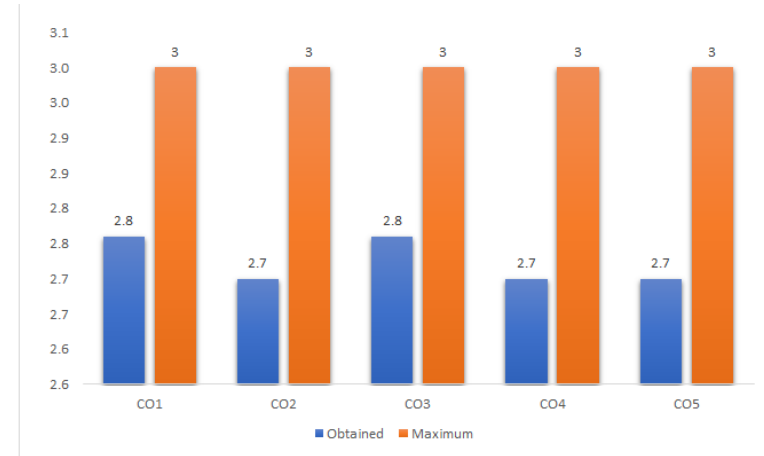
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
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	2.721433333							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		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	100.0	3.0			100.0	3.0	100.0	3.0	100.0	3.0	31.4	0.0	2.4	100.0	3.0	3.0	2.8
CO2	100.0	3.0			100.0	3.0			100.0	3.0	31.4	0.0	2.3	100.0	3.0	3.0	2.7
CO3	100.0	3.0	100.0	3.0	100.0	3.0			100.0	3.0	31.4	0.0	2.4	100.0	3.0	3.0	2.8
CO4			100.0	3.0	100.0	3.0			100.0	3.0	31.4	0.0	2.3	100.0	3.0	3.0	2.7
CO5			100.0	3.0	100.0	3.0			100.0	3.0	31.4	0.0	2.3	100.0	3.0	3.0	2.7

AVERAGE	AVERAGE
3	2.7

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: WATER MANAGEMENT

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

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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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
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CO1	Classify major, medium and minor irrigation projects.	II (UNDERSTAND)
CO2	Solve sample problems on available soil moisture and explain various soil moisture constants	II (UNDERSTAND)
CO3	Differentiate Net and Gross Irrigation requirements and sub divide indirect methods of soil moisture estimation	IV (ANALYSE)
CO4	Judge different approaches of scheduling irrigation and different methods of irrigation	IV (ANALYSE)
CO5	Explain various micro irrigation methods and quality of water	III (APPLY)

TABLE 1: CO, PO, PSO MAPPING

Course outcomes	Programme Outcomes								Program Specific outcomes				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	
1	H		H						H		H		

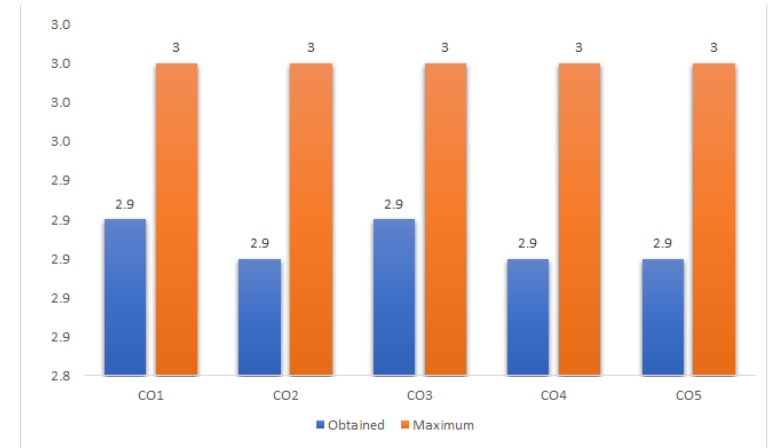
2	H		H						H		H		
3	H		H						H		H		
4	H		H						H		H		
5	H		H						H		H		

H: Highly Supportive

S: Supportive



OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.92		H 2.92					
CO2	H 2.9		H 2.9	H 2.9			H 2.9	
CO3	H 2.92		H 2.92	H 2.92	H 2.92		H 2.92	
CO4	H 2.9		H 2.9	H 2.9			H 2.9	
CO5	H 2.9		H 2.9	H 2.9				H 2.9
AVERAGE OF COS FOR POS	2.908		2.908	2.905	2.92		2.906666667	2.9
AVERAGE OF POS	2.9056		2.9056	2.905	2.92		2.90667	2.9
AVERAGE	2.907144444							



co	mid exam 1		mid exam 2		group discussion		assignment		viva		Attendance		co wise internal average	External Exam			
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level		co wise external average	co wise total average		
CO1	98.9	3.0			100.0	3.0	96.8	3.0	91.5	3.0	76.6	2.0	2.8	95.7	3.0	3.0	2.9
CO2	98.9	3.0			100.0	3.0			91.5	3.0	76.6	2.0	2.8	95.7	3.0	3.0	2.9
CO3	98.9	3.0	95.7	3.0	100.0	3.0			91.5	3.0	76.6	2.0	2.8	95.7	3.0	3.0	2.9
CO4			95.7	3.0	100.0	3.0			91.5	3.0	76.6	2.0	2.8	95.7	3.0	3.0	2.9
CO5			95.7	3.0	100.0	3.0			91.5	3.0	76.6	2.0	2.8	95.7	3.0	3.0	2.9

AVERAGE	AVERAGE
3	2.9