

Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Modern Concepts in Cro	odern Concepts in Crop Production											
Course Code	AGRON-501[T]	RON-501[T]											
	Remember) CO2- Zero and minimum CO3- Precision agricultur Apply) CO4- Biotic and a biotic s	tillage: their base e and Precision stresses; conce	rop growth in relation to environment(BL1-sics and application(BL2-Understand) a farming, their concepts and application(BL3-ot of ideal plant type(BL4-Analyze) ction under protective agriculture(BL5-										
Course Elements	Skill Development X Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG7(Affordable and clean energy) SDG8(Decent work and economic growth) SDG13(Climate action) SDG15(Life on land)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	-	1	2	-	-	-	-	-	-	-	-	3	1	-
CO2	-	-	2	-	-	-	-	-	-	2	-	-	1	2	-
CO3	-	-	-	3	-	1	-	-	-	-	-	-	-	-	2
CO4	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
CO5	-	-	-	-	1	-	-	2	-	2	-	-	-	-	-
CO6	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Principles and Practices of	nciples and Practices of Soil Fertility and Nutrient Management										
Course Code	AGRON-502[T]											
Course Outcomes & Bloom's Level	CO2- To study Importance of (BL2-Understand) CO3- To Assess and develop Apply) CO4- To study about soil pole	r Significance of specification in Signification in Signi	and productivity (BL1-Remember) soil macronutrient and micronutrients soil physical and chemical properties (BL3- ation process (BL4-Analyze) ation process (BL5-Evaluate)									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment ✓	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG13(Climate action)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	2	-	-	-	-	-	3	-	-	-	-	3	1	-
CO2	-	-	-	-	-	-	-	3	-	-	-	-	1	2	-
CO3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	2
CO4	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	3	-	-	-	-	-	-	-	-	_	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Soil Chemistry	oil Chemistry										
Course Code	SOILS-503[T]											
Course Outcomes & Bloom's Level	rocks, and minerals and Learn chemistry. (BL1-Remember) CO2- Analyze the properties of and understand the origin of charge (ZPC)(BL2-Understand CO3- Understand ion exchang theories based on the law of hysteresis, Jenny's concept)(ECO4- Learn about the quantity constant-rate K. Understand the nutrient fixation.(BL4-Analyze)	of the basics of charge in soil colloids, in tharge in soil colloids, in tharge in soil colloids, in the processes in the state of the	Imposition of the earth's crust, soils, hemical kinetics and its application in soil acluding inorganic and organic colloids loids and the concept of zero point soil, focusing on cation exchange r-Vanselow, Gapon equations, elationship and the concepts of step and aspects related to soil chemistry and ing active and potential acidity and lime ats and environmental soil									
Course Elements	Skill Development X Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment ✓	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG7(Affordable and clean energy) SDG13(Climate action) SDG15(Life on land)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	2	-	-	-	-	-	-	-	-	-	_	3	1	-
CO2	-	1	-	-	-	-	-	-	-	-	-	-	1	2	-
CO3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2
CO4	-	-	-	-	-	-	-	1	-	_	-	_	-	-	-
CO5	-	-	-	-	-	-	-	2	-	_	-	_	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Statistical Methods For App	atistical Methods For Applied Sciences										
Course Code	STAT-502[T]											
Course Outcomes & Bloom's Level	field of agriculture(BL1-Ren CO2- Explain the concepts for agricultural data analysis CO3- Calculate the various parametric and non-parame CO4- Investigate the multiva	nember) of probability dis of BL2-Understa statistical paran otric tests(BL2-U ariate analysis u arious statistical	neters of given data samples using									
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education) SDG8(Decent work and economic growth)									

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	-	-	-	-	-	-	-	-	-	-	3	1	-
CO2	-	-	1	-	-	-	-	-	-	-	-	-	1	2	-
CO3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2
CO4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
CO6	-	_	-	-	-	_	-	-	-	-	-	-	-	-	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Library and Information S	ervices											
Course Code	PGS-501 [P]	S-501 [P]											
Course Outcomes & Bloom's Level	CO2- Carry out literature s CO3- Apply the modern to search (BL3-Apply)	survey (BL2-Un ools (Internet, O scholars with sk	PAC, search engines, etc.) of information ills to trace information from libraries										
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG8(Decent work and economic growth)										

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	-	-	-	-	-	-	-	-	-	-	2	1	-
CO2	3	-	-	-	-	-	-	-	-	-	-	-	1	2	-
CO3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CO4	-	-	-	2	-	-	-	-	-	-	-	-	_	-	-
CO5	-	-	-	-	3	-	-	-	-	-	-	-	_	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Technical Writing and Communication Skill	
Course Code	PGS-502[P]	
Course Outcomes & Bloom's Level	CO1- Define various aspects of technical writing and of Remember) CO2- Translate scientific literatures for effective draft of Understand) CO3- Apply the writing and communication skills at sc CO4- Relate the various scientific works on the given CO5- Equip the students/scholars with skills to write detc.(BL5-Evaluate)	of technical writings.(BL2- ientific platform.(BL3-Apply) research ideas.(BL4-Analyze)
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
CO2	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-
CO3	3	2	-	-	-	-	-	-	-	-	-	-	-	2	-
CO4	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-
CO5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Principles and Practices o	rinciples and Practices of Weed Management										
Course Code	AGRON-503 [T]											
Course Outcomes & Bloom's Level	Remember) CO2- Basic concept, introduced application methods and king (BL2-Understand) CO3- Basic concept, introduced application methods and king (BL3-Apply) CO4- Effective cultural, methods in different cropping	ductory idea an nowing about r ductory idea an nowing about r echanical, biolo g system, crops	nd survey of weeds in varied ecosystem. (BL1- ad classification of herbicides and its mode and mechanism of action of herbicides. ad classification of herbicides and its mode and mechanism of action of herbicides. agical, and chemical methods for managing and water weed (BL4-Analyze) actices for different ecosystems (BL5-Evaluate)									
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment ✓		SDG4(Quality education) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	3	-	-	-	-	-	-	-	-	-	-	3	1	-
CO2	-	-	-	-	-	-	1	-	-	1	-	-	1	2	-
CO3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2
CO4	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
CO5	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Principles and Practices of	Water Managen	nent								
Course Code	AGRON-504 [T]										
Course Outcomes & Bloom's Level	different water resources of CO2- Water absorption, mov (BL2-Understand) CO3- The principles involved irrigation scheduling and app CO4- Water management in known quality of water and it	world and India vement in soil ard in estimating vertical ard in estimating vertical ard in estimating vertical ard in estimating vertical ard in estimation and cropp its management of excess water	vater requirement, various methods of Apply) ing systems and economize the water and (BL4-Analyze) on plant growth, drainage requirements of								
Course Elements	Skill Development X Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment ✓	Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X SDG (Goals) SDG2(Zero hunger) SDG8(Decent work and economic growth) SDG14(Life below water) SDG15(Life on land)									

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-
CO2	-	-	-	2	-	-	-	-	-	-	-	-	-	2	-
CO3	-	-	-	-	-	-	-	1	-	-	-	-	-	2	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Agronomy of Major Cerea	ls and Pulses								
Course Code	AGRON-506 [T]									
Course Outcomes & Bloom's Level	postharvest handling and postharvest handling and posterior cereals and pulses. (BL1-FCO2- Compare the different echnologies with their eco CO3- Utilize various principand maximise the return percoder and posterior cereals and pulses. Assess the sustainal	processing and Remember) nt cultivation promic viability ples and concept unit area and various intereses.(BL4-Analoility of various	cultural operation on yield, quality and storage							
Course Elements	Skill Development X Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X SDG1(No poverty) SDG2(Zero hunger) SDG11(Sustainable cities and economies) SDG12(Responsible consuption and production)									

COs	PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	-	-	-	3	-	-	-	-	-	-	3	1	-
CO2	-	-	-	-	-	2	-	3	-	-	-	-	1	2	-
CO3	-	-	-	-	-	-	2	-	-	3	-	-	-	-	2
CO4	-	-	-	3	-	-	-	2	-	-	-	-	-	3	-
CO5	-	-	-	-	-	-	2	-	3	-	-	-	3	1	-
CO6	_	-	-	-	_	-	-	_	-	-	-	_	-	-	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Master Seminar											
Course Code	AGRON-591 [T]											
	CO2- Identify the problem, formula CO3- Engage in dialogue with indi	 Demonstrate a sound knowledge of selected seminar topic.(BL1-Remember) Identify the problem, formulate a solution, and implement it.(BL2-Understand) Engage in dialogue with individuals and the larger community.(BL3-Apply) Provide solutions for challenging issues in the field(BL4-Analyze) 										
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger)									

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	2	-	-	-	-	-	3	-	-	-	-	_
CO4	-	-	-	-	-	1	-	-	-	2	-	-	-	-	_
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
CO6	_	_	-	-	-	_	_	-	-	-	-	-	-	-	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Intellectual Property and Its	ellectual Property and Its Management in Agriculture										
Course Code	PGS-503 [T]											
	CO3- Understand the signific biodiversity protection. (BL3-CO4- Apply the approach of	ious types of IPF cance of various - Apply) IPRs for protecti	Rs in agriculture. (BL2-Understand) national and international initiatives for									
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics ✓ Gender X Human Values X Environment X	SDG (Goals)	SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	2	1	-	3	-	-	-	-	-	-	-	2	1	-
CO2	2	-	-	-	-	-	-	-	-	-	-	-	1	2	-
CO3	1	-	2	-	-	-	-	-	-	-	-	-	-	-	2
CO4	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-
CO5	2	-	-	-	-	-	-	-	-	-	-	_	-	-	_
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Soil Fertility and Fertilizer Use		
Course Code	SOILS-502 [T]		
Course Outcomes & Bloom's Level	Remember) CO2- Discuss sources, forms, ro Understand) CO3- Demonstrate the methods	les and transformati of fertilizer recomme atic fertilizer,behavio	endation and application (BL3- or and their management (BL4- um and sulphur in soil. (BL5-
Course Elements	Skill Development X Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment ✓	SDG (Goals)	SDG13(Climate action) SDG15(Life on land)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	2	-	-	-	-	-	-	-	-	-	-	3	1	-
CO2	-	1	-	-	-	-	-	-	-	-	-	-	1	2	_
CO3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2
CO4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	2	-	-	-	-	-	-	_
CO6	_	_	-	-	_	-	_	-	_	-	_	-	-	-	_



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Experimental Designs	perimental Designs											
Course Code	STAT-511 [T]												
Course Outcomes & Bloom's Level	(BL2-Understand) CO3- Demonstrate the analysis of factorial experiments (BL3-Apply CO4- Analyse the result of variou (BL4-Analyze) CO5- Assess the suitability of difference of the control of the cost of the cos	D2- Compare the different experimental designs used in agriculture field experiments L2-Understand) D3- Demonstrate the analysis of covariance in basic designs and confounding in ctorial experiments (BL3-Apply) D4- Analyse the result of various statistical designs along give scientific interpretation L4-Analyze) D5- Assess the suitability of different Software for the statistical analysis of different signs for different sets of experimental conditions (BL5-Evaluate)											
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	-	-	-	-	-	-	-	-	-	-	3	1	-
CO2	-	-	1	-	-	-	-	-	-	-	-	-	1	2	-
CO3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2
CO4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Basic Concept in Laboratory Techniques	
Course Code	PGS-504 [P]	
	CO1- Describe the basic concepts and working princip instruments and techniques (BL1-Remember) CO2- Explain the SOPs of various equipments and techniques (BL2-Understand) CO3- Explain the SOPs of various equipment's and techniques (BL3-Apply) CO4- Examine the results of various lab analysis with Analyze) CO5- Examine the results of various lab analysis with Evaluate)	chniques used in different chniques used in different scientific explanation (BL4-
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	-	-	-	-	-	-	-	-	-	-	2	1	-
CO2	3	-	-	-	-	-	-	-	-	-	-	-	1	2	-
CO3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CO4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Agronomy of Oilseed Fibre A	and Sugar Crops	
Course Code	AGRON-507 [T]		
	importance, Soil and climatic oilseed crops (Rabi and khari CO2- Acquire the knowledge fibre crop and sugar crop procCO3- Able to identify the diffe fibre crop and sugar crop and CO4- Utilized the theoretical a	requirements, var f), fibre crop and about the construction. (BL2-Uni- erent improved values associated values	, geographical distribution, economic arieties, cultural practices and yield of a sugar crop. (BL1-Remember) raints of oilseed crops (Rabi and kharif), nderstand) arieties of oilseed crops (Rabi and kharif), veeds, disease and pest (BL3-Apply) owledge of production technology to bi and kharif), fibre crop and sugar crop.
Course Elements	Skill Development X Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X		SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG8(Decent work and economic growth)

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	1	1	-	-	2	2	-	-	-	-	1	-	2
CO2	1	2	1	-	2	-	2	2	-	1	-	-	-	1	-
CO3	1	-	1	-	1	-	-	-	1	-	-	-	-	1	2
CO4	1	-	2	-	1	-	2	-	2	-	-	-	3	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Cropping System and Susta	ainable Agricult	ure
Course Code	AGRON-511 [T]		
Course Outcomes & Bloom's Level	their respective M.P. as well management. (BL1-Remem CO2- Describe the basic con and cropping system composite allelopathic effects. (BL2-Ur CO3- Demonstrate various I CO4- Analyse the opportuni management of natural rescriptions.)	as north part of nber) ncepts of differencent on above nderstand) IFS model and sties and challer purces (BL4-An feasibility of differences in the state of the s	is, farming system and cropping pattern with f India, for sustainable resource ent competition relations between farming and below ground interactions and sustainability approaches. (BL3-Apply) inges in farming system for sustainable alyze) ferent farming system component viz. inc farming etc (BL5-Evaluate)
Course Elements	Skill Development X Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment ✓	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG11(Sustainable cities and economies) SDG13(Climate action)

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	-	-	2	-	-	1	-	-	-	-	1	-	2
CO2	1	-	-	1	-	2	-	1	-	1	-	-	2	1	-
CO3	1	-	-	-	3	-	1	-	-	-	-	-	-	2	-
CO4	-	1	-	-	-	1	-	1	-	3	-	-	2	-	1
CO5	1	-	-	2	-	_	2	-	_	3	-	-	1	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Dryland Farming and Wat	tershed Manag	gement
Course Code	AGRON-512 [T]		
Course Outcomes & Bloom's Level	Remember) CO2- Understand the skill Understand) CO3- Apply the knowledge contingent crop plan to ev CO4- Analyse the types of availability (BL4-Analyze)	s required for i e on soil and m rade risk in dry f droughts, cha) owledge on raii BL5-Evaluate)	nracterization of environment for water n water harvesting techniques and watershed
Course Elements	Skill Development X Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment ✓	SDG (Goals)	SDG1(No poverty) SDG3(Good health and well-being) SDG12(Responsible consuption and production) SDG15(Life on land)

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	1	-	-	2	-	-	3	-	1	-	-	3
CO2	1	-	-	2	-	-	2	-	-	-	-	-	-	1	-
CO3	1	-	-	3	-	-	-	-	2	-	-	1	-	2	-
CO4	-	1	2	-	-	-	-	2	-	-	-	1	-	-	2
CO5	1	-	-	-	2	-	-	-	1	-	-	1	-	-	3
CO6	1	-	1	-	-	-	2	-	-	-	-	-	1	-	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Agricultural Research Research Eth	ics and Rural Develo	pment Programmes										
Course Code	PGS-505 [T]												
	CO2- Understand the research ethic CO3- Apply the skill for rural develop CO4- Relate the functioning of agric international levels. (BL4-Analyze)	- Equip the students/scholars with skills to perform research.(BL5-Evaluate)											
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics ✓ Gender X Human Values ✓ Environment X	SDG (Goals)	SDG1(No poverty)										

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-
CO2	-	1	-	-	2	-	-	1	-	-	-	-	-	-	1
CO3	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-
CO4	-	1	-	1	-	-	-	1	-	-	-	_	1	-	1
CO5	-	-	1	-	2	-	1	-	-	-	-	-	_	1	1
CO6	1	-	-	-	1	-	-	2	-	-	-	-	-	2	-



Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Remote sensing & GIS Techniques for Soil and Crop studies						
Course Code	SOIL-509 [T]						
Course Outcomes & Bloom's Level	CO1- Describe the fundamental concept of remote sensing. (BL1-Remember) CO2- Discuss the application of remote sensing in agriculture. (BL2-Understand) CO3- Apply image processing techniques for identification of crop and soil issues. (BL3-Apply) CO4- Examine the Crop stress and Yield forecast of different agricultural crops (BL4-Analyze) CO5- Determine the GIS techniques for solving complex agricultural problems. (BL5-Evaluate)						
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG15(Life on land)				

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	-	-	-	1	-	-	-	-	-	1	-	2
CO2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	2
CO3	-	-	-	1	-	-	-	-	2	-	-	-	2	1	-
CO4	-	2	-	-	-	-	1	3	-	-	-	-	1	-	-
CO5	-	-	-	-	1	-	-	2	-	-	-	-	2	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-