

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

Title of the Course	Rural Sociology and Educat	Rural Sociology and Educational Psychology										
Course Code	AEXT-111 (T)											
Course Outcomes & Bloom's Level	improved agricultural technol <b>CO2-</b> Understand the socioe assessing the feasibility of a <b>CO3-</b> Apply the different psy agriculture extension( <b>BL3-A</b>	ologies to farmin economic status daptation new a rchological and p <b>ply)</b> rious social Inst	f rural sociology in dissemination of ag communities <b>(BL1-Remember)</b> s of indian social groups in relation to agricultural technologies <b>(BL2-Understand)</b> behaviorist theories and methods in itution in socioeconomic develoment of									
	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values √ Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG5(Gender equality) SDG8(Decent work and economic growth) SDG10(Reduced inequalities)									

COs	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-
CO2	-	-	-	3	3	-	-	-	1	-	-	-	1	2	-
CO3	2	-	1	-	-	-	2	-	-	3	-	-	-	-	2
CO4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Human Values and Ethics	Iman Values and Ethics										
Course Code	AEXT-112 [T]	XT-112 [T]										
	CO2- Understand the signi service. (BL2-Understand CO3- Demonstrate the skill	ficance of posit ) s of philosophy occurred in the	an values and ethics <b>(BL1-Remember)</b> ive attitude, mental satisfaction and selfless of self-exploration <b>(BL3-Apply)</b> e thinking, nature and behaviour of humans									
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values √ Environment X	SDG (Goals)	SDG1(No poverty) SDG4(Quality education) SDG5(Gender equality) SDG8(Decent work and economic growth) SDG10(Reduced inequalities)									

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



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

Title of the Course	Fundamental of Agronomy		
Course Code	AGRON-111 [T]		
Course Outcomes & Bloom's Level	production (BL1-Remember) CO2- Explain various types of (BL2-Understand) CO3- Calculate the required ar seed rate, fertilizers, agrochem Apply) CO4- Analyse the role of vario and its contributing traits (BL4	agricultural inputs mount/number of nicals, plant popu us intercultural op <b>-Analyze)</b>	nomy in relation to agricultural crop s, which required for crop cultivation various crop production factors (i.e., lation) for specific land area <b>(BL3-</b> perations with reference to crop yield factors on overall crop production <b>(BL5-</b>
Course Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goale)	SDG1(No poverty) SDG2(Zero hunger) SDG4(Quality education) SDG5(Gender equality) SDG6(Clean water and sanitation) SDG15(Life on land)

COs	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	1	3	-	2	-	-	-	-	-	3	1	-
CO2	-	-	-	-	2	-	2	-	-	-	-	1	1	2	-
CO3	2	-	3	-	2	-	-	-	-	-	-	1	-	-	2
CO4	-	2	-	-	-	-	-	1	-	-	1	-	-	-	-
CO5	-	3	2	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Agriculture Heritage	griculture Heritage										
Course Code	AGRON-112 [T]	RON-112 [T]										
	resources (BL1-Rememi CO2- Understand the and agricultural practices (BL CO3- Examine the variou (BL3-Apply)	<b>D4-</b> Analyse the rich cultural and spiritual heritage of India in relation to agriculture										
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values √ Environment X	SDG (Goals)	SDG2(Zero hunger) SDG11(Sustainable cities and economies) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land)									

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



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

Title of the Course	Introduction to Forestry	roduction to Forestry										
Course Code	AGRON-122[T]											
Course Outcomes & Bloom's Level	Policy(BL1-Remember) CO2- Classify the Indian Understand) CO3- Calculate the variou CO4- Examine the differe Analyze) CO5- Determine the suita	<ul> <li>Classify the Indian forest with their specific features and ecological regions(BL2-lerstand)</li> <li>Calculate the various parameters of forest(BL3-Apply)</li> <li>Examine the different agroforestry systems prevalent in the country(BL4-</li> </ul>										
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG6(Clean water and sanitation) SDG12(Responsible consuption and production) SDG15(Life on land)									

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



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

Title of the Course	Fundamental of Plant Bio	undamental of Plant Biochemistry and Biotechnology									
Course Code	BIOCHEM-BT-111 [T]										
Course Outcomes & Bloom's Level	CO2- Explain the metabo Understand) CO3- Apply the various co Apply) CO4- Analyse the differer biochemical techniques (I	lic processes i oncepts biotec nt biomolecules <b>BL4-Analyze)</b>	of various biomolecules in sustaining the life () nvolving different bio-molecules (BL2- hnology in crop plant improvement (BL3- s in agricultural samples using different in affecting the nutritional quality and valuate)								
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG6(Clean water and sanitation) SDG7(Affordable and clean energy) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)								

COs	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	1	-	-	-	-	-	-	-	3	-	-
CO2	-	1	-	1	-	-	-	-	-	-	-	-	1	2	-
CO3	2	-	-	1	1	-	1	1	-	-	-	1	-	1	2
CO4	-	-	-	1	-	-	-	1	-	-	-	2	-	-	-
CO5	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	National Cadet Core**	ational Cadet Core**											
Course Code	BNCC01GE03 [T]												
Course Outcomes & Bloom's Level	CO2- Understand the commu (BL2-Understand) CO3- Organize various socia	Describe the role and scope of NSS program activities ( <b>BL1-Remember</b> ) Understand the community mobilization, Social harmony and national integration <b>Understand</b> ) Organize various social activities ( <b>BL3-Apply</b> ) Analyze the role citizenship, constitution and human rights ( <b>BL4-Analyze</b> )											
	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values √ Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG5(Gender equality)										

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



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

Title of the Course	Introductory Biology*	ntroductory Biology*										
Course Code	CP-111 [T]											
Course Outcomes & Bloom's Level	CO2- Explain the origin and (BL2-Understand) CO3- Demonstrate species	diversity of life of l	living organism <b>(BL1-Remember)</b> on Earth and the evolutionary progression ous plant families <b>(BL3-Apply)</b> ated functions in plants and animals <b>(BL4-</b>									
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG6(Clean water and sanitation) SDG7(Affordable and clean energy) SDG13(Climate action) SDG14(Life below water) SDG17(Partnerships for the goals)									

COs	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-
CO2	1	-	-	-	-	3	-	-	-	-	-	-	1	2	-
CO3	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2
CO4	-	-	2	-	-	-	-	2	-	3	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Comprehension and Co	omprehension and Communication Skills in English										
Course Code	ENGL-111 [T]	GL-111 [T]										
	CO2- Explain the Import Understand) CO3- Demonstrate readi CO4- Categorize the var CO5- Evaluate the variou	ance and proce ing Compreher ious vocabular us professional	kills in professional life <b>(BL1-Remember)</b> ess of various communication methods <b>(BL2-</b> nsion <b>(BL3-Apply)</b> y of English language <b>(BL4-Analyze)</b> writings and their styles <b>(BL5-Evaluate)</b> on skills in English <b>(BL6-Create)</b>									
Course Elements	Skill Development ✓ Entrepreneurship × Employability × Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG4(Quality education) SDG5(Gender equality) SDG10(Reduced inequalities) SDG16(Peace Justice and strong institutions) SDG17(Partnerships for the goals)									

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



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

Title of the Course	Fundamentals of Horticulture	Fundamentals of Horticulture											
Course Code	HORT-111[T]												
Course Outcomes & Bloom's Level	and concepts of orchard establic crops (BL1-Remember) CO2- Explain the suitability of h conditions along with their suita (BL2-Understand) CO3- Demonstrate various tech and management in the field (B CO4- Analyse the significance of operations and management pr Analyze)	ishment, producti norticultural crops ble propagation t nniques and prace <b>L3-Apply)</b> of various propag actices used in d us factors affectir	echniques and management practices tices of horticultural crops production ation techniques and intercultural ifferent horticultural crops <b>(BL4-</b> ng the growth and development and										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG6(Clean water and sanitation) SDG15(Life on land)										

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



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

Title of the Course	Fundamental of Soil Scie	undamental of Soil Science										
Course Code	SS-111[T]											
& Bloom's Level	CO2- Explain the behavior management (BL2-Unde CO3- Demonstrate variou impact on plant growth (E CO4- Examine the soil po	our of various s rstand) us soil physical BL3-Apply) ollution and its	principles of Soil Science <b>(BL1-Remember)</b> soils in relation to crop production and , chemical and biological properties and their prevention <b>(BL4-Analyze)</b> rious agrochemicals on soil health									
	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG2(Zero hunger) SDG6(Clean water and sanitation) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)									

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



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

Title of the Course	National Service Scheme	ational Service Scheme**										
Course Code	NSS-111 [P]											
Course Outcomes & Bloom's Level	<b>CO2-</b> Understand the con integration( <b>BL2-Understa</b> <b>CO3-</b> Organize various so	nmunity mobiliz and) ocial activities( <b>E</b>	S program activities <b>(BL1-Remember)</b> zation, Social harmony and national BL3-Apply) itution and human right <b>(BL4-Analyze)</b>									
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values √ Environment X		SDG3(Good health and well-being) SDG4(Quality education) SDG5(Gender equality) SDG8(Decent work and economic growth) SDG16(Peace Justice and strong institutions)									

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



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

Title of the Course	Physical Education and Yo	ga Practices**	
Course Code	PED-111 [P]		
Course Outcomes & Bloom's Level			
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X		SDG3(Good health and well-being) SDG5(Gender equality)

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



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

Title of the Course	Fundamentals of Agricul	Indamentals of Agriculture Economics											
Course Code	AE-121 [T]	-121 [T]											
	<b>CO2-</b> Illustrate of the law <b>CO3-</b> Demonstration of N Indian Agricultural Sector												
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG15(Life on land) SDG17(Partnerships for the goals)										

COs	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	-	-	-	-	-	-	-	-	-	2	1	-
CO2	-	1	-	-	2	-	-	-	-	2	-	-	1	2	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
CO4	-	-	1	-	1	3	-	2	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Soil and Water Conservatior	bil and Water Conservation Engineering											
Course Code	AENG-121[T]												
Course Outcomes & Bloom's Level	management(BL1-Remember CO2- Understand the mechan Understand) CO3- Apply appropriate soil of conditions(BL3-Apply) CO4- Examine the effect of e CO5- Evaluate the soil loss b technique(BL5-Evaluate)	er) nism of various & water conserva erosion problem by different empi vater conservatio	rical equations and RS & GIS on structures in order to control soil										
Course Elements	Skill Development ✓ Entrepreneurship × Employability × Professional Ethics × Gender × Human Values × Environment √	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG6(Clean water and sanitation) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)										

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



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

Title of the Course	Fundamentals of Agricult	tural Extension	Education
Course Code	AEXT-121[T]		
	CO2- Understand the var Understand) CO3- Apply rural and con Apply) CO4- Analyse the extens Analyze)	ious tools and e nmunity develop ion system in In	of Extension education. <b>(BL1-Remember)</b> elements of extension education <b>(BL2-</b> pment Program in village and local area. <b>(BL3-</b> ndia and various policies of government. <b>(BL4-</b> s under extension education <b>(BL5-Evaluate)</b>
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG4(Quality education) SDG8(Decent work and economic growth) SDG10(Reduced inequalities) SDG11(Sustainable cities and economies) SDG17(Partnerships for the goals)

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



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

Title of the Course	Communication Skills and	Communication Skills and Personality Development											
Course Code	AEXT-122[T]												
Course Outcomes & Bloom's Level	(BL2-Understand) CO3- Apply the knowledge behaviour. (BL3-Apply) CO4- Analyse the psychol communicator. (BL4-Anal	ding writing tech e of domains ar ogy of social in <b>yze)</b>	skills. <b>(BL1-Remember)</b> aniques of general and technical articles. ad components in understanding the human teractions for ego and behaviour of the overall personality development <b>(BL5-</b>										
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG4(Quality education) SDG5(Gender equality) SDG8(Decent work and economic growth) SDG10(Reduced inequalities) SDG17(Partnerships for the goals)											

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



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

Title of the Course	Fundamentals of Crop Phys	undamentals of Crop Physiology											
Course Code	CP-121[T]												
Course Outcomes & Bloom's Level	development( <b>BL1-Remember</b> <b>CO2-</b> Explain the functions of <b>Understand</b> ) <b>CO3-</b> Demonstrate the effect development of crop plants( <b>I</b> <b>CO4-</b> Analyse the different m	<b>er)</b> of various minera t of plant growth <b>BL3-Apply)</b> netabolic pathwa t physiological g	ant physiology in crop growth and Il nutrients in crop physiology <b>(BL2-</b> regulators or phyto-hormones in hys of bio-molecules <b>(BL4-Analyze)</b> rowth parameters involved in development										
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)										

COs	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	1	-	-	-	-	-	-	-	-	3	-	-
CO2	-	1	-	-	1	-	-	-	-	-	-	1	1	2	-
CO3	1	-	2	-	-	-	-	-	-	-	-	-	-	2	1
CO4	-	1	-	1	-	-	-	-	-	-	-	2	-	-	-
CO5	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Fundamentals of Entome	Fundamentals of Entomology									
Course Code	ENT-121[T]	ENT-121[T]									
& BIOOIII'S Level	Remember) CO2- Classify insects acc Understand) CO3- Demonstrate the re (BL3-Apply) CO4- Analyse the effect of CO5- Evaluate the insect	<b>CO2-</b> Classify insects according to their morphology, anatomy and physiology. <b>(BL2-</b> <b>Jnderstand)</b> <b>CO3-</b> Demonstrate the relationship of insect appendages with their habit and habitat.									
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land)								

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



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

Title of the Course	Fundamentals of Genetics	undamentals of Genetics							
Course Code	GPB-121[T]								
& Bloom's Level	CO2- Understand the variou CO3- Demonstrate the devia explanations(BL3-Apply) CO4- Analyze the nature, str Analyze)	<b>O4-</b> Analyze the nature, structure and functions of cell and genetic materials( <b>BL4-</b>							
	Skill Development × Entrepreneurship × Employability × Professional Ethics × Gender × Human Values × Environment ×		SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)						

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



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

Title of the Course	Agricultural Microbiology										
Course Code	MICROB- 121[T]	MICROB- 121[T]									
	organisms and their significar CO2- Discuss the growth and (BL2-Understand) CO3- Demonstrate the fundar microbes(BL3-Apply) CO4- Analyse the role of micr quality of agriculture produce	nt role in agricult l reproduction pa mental technique robes in affecting ( <b>BL4-Analyze</b> ) Ingi and bacteria	attern of different agricultural microbes es which are necessary in culturing of the g the productivity of agricultural crops and n with reference to their potential utilization								
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG2(Zero hunger) SDG6(Clean water and sanitation) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)								

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



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

Title of the Course	Fundamentals of Plant Pathe	Fundamentals of Plant Pathology									
Course Code	PP-121[T]										
Course Outcomes & Bloom's Level	Remember) CO2- Interpret about various nematodes and their life cycl CO3- Experimenting concept CO4- Explaining important m interactions(BL4-Analyze)	pathogens inclu es <b>(BL2-Unders</b> t t of disease, cau icroorganisms a	plant diseases and its development. <b>(BL1-</b> iding bacteria, fungus, virus and <b>tand)</b> sal agents of plant diseases <b>(BL3-Apply)</b> nd understand host pathogen he causal organisms of diseases. <b>(BL5-</b>								
Course Elements	Skill Development ✓ Entrepreneurship × Employability × Professional Ethics × Gender × Human Values × Environment √		SDG2(Zero hunger) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)								

COs	P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	1	-	-	-	-	-	-	-	-	3	1	-
CO2	-	1	1	2	-	-	-	-	-	-	-	-	-	3	-
CO3	2	-	1	1	-	-	2	-	-	1	2	2	-	-	2
CO4	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
CO5	-	1	-	-	-	-	-	-	-	-	2	_	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Agricultural Finance and	Agricultural Finance and Co-operation								
Course Code	AE-211[T]	AE-211[T]								
	organisations.(BL1-Rem CO2- Understand the rol bank(BL2-Understand) CO3- Apply a variety of s evaluation(BL3-Apply) CO4- Examine the cooper related enterprises(BL4-	<b>ember)</b> es and goals c statistical and r erative credit si <b>Analyze)</b>	of the Indian credit system and financial of both the commercial bank and the central nonetary approaches to the project's tructure and profit statement in agriculture- ack options offered by Indiana's banking							
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG5(Gender equality) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG13(Climate action) SDG17(Partnerships for the goals)							

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



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

Title of the Course	Farm Machinery and Pov	Farm Machinery and Power								
Course Code	AENG-211[T]									
-	machinery (BL1-Rememb CO2- Understand the prin and operations (BL2-Und CO3- Calculate the perfor Apply) CO4- Examine the workin combustion engines (BL4	<b>ber)</b> nciples of farm <b>derstand)</b> rmance of farm ng principle of c <b>4-Analyze)</b> rmance of harve	nd describe the different operations in farm machinery management for different soil, crops in machinery under actual field conditions <b>(BL3-</b> different system of tractor & parts of internal esting, threshing and special equipment for							
Course Elements	Skill Development ✓ Entrepreneurship × Employability × Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG2(Zero hunger) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land)							

Course Articulation M	<b>A</b> atrix
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COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-
CO2	-	2	1	1	2	2	-	-	-	-	1	-	-	-	-
CO3	1	-	1	2	2	1	-	-	-	-	-	1	-	-	-
CO4	-	1	-	-	-	-	-	-	-	-	1	2	-	-	-
CO5	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_



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

Title of the Course	Crop Production Technol	Crop Production Technology-I (Kharif crops)									
Course Code	AGRON- 211[T]										
Course Outcomes & Bloom's Level	agricultural crops(BL1-Re CO2- Understand the soi Understand) CO3- Demonstrate the nu CO4- Examine the impac different crops(BL4-Anal	emember) I and climatic r ursery preparat t of various bic <b>yze)</b>	s and economic importance of various Kharif equirements of different Kharif crops( <b>BL2-</b> tion and transplanting in rice( <b>BL3-Apply</b> ) otic and abiotic stress on the productivity of of different crops( <b>BL5-Evaluate</b> )								
	Skill Development ✓         Entrepreneurship ×         Employability ✓         Professional Ethics ×         Gender ×         Human Values ×         Environment ×										

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



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

Title of the Course	Live-stock and Poultry Ma	_ive-stock and Poultry Management									
Course Code	AHS- 211[T]										
	Remember) CO2- Understand the varie management (BL2-Under CO3- Organize the livesto (BL3-Apply) CO4- Analyze the various and suggest the appropria	ous concepts a <b>stand)</b> ck and poultry challenges/pro ite solution for	k production and management <b>(BL1-</b> and procedures of livestock and poultry farms in sustainable and efficient manner oblems of livestock and poultry management them <b>(BL4-Analyze)</b> ad poultry on sustainable integrated farming								
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) 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	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	-	-	-	-	-	-	-	-	-	-	-	3	-
CO2	-	-	1	-	3	-	-	-	-	-	-	-	3	-	-
CO3	-	-	2	3	-	1	-	-	-	-	-	-	-	1	3
CO4	-	-	-	3	2	-	-	-	-	-	-	2	-	-	-
CO5	-	-	1	-	2	-	2	-	-	-	-	1	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Environmental Studies and	Environmental Studies and Disaster Management										
Course Code	CP-211 [T]											
Course Outcomes & Bloom's Level	resource, its importance and resource. (BL1-Remember) CO2- To know about Ecosys upon the abiotic component CO3- Gain knowledge abou Apply) CO4- Aware students about and ecosystem and control	d environmental ) stem and gain k s. ( <b>BL2-Unders</b> t the conservati problems of en measures. ( <b>BL</b> 4 earn types of dis	ion of biodiversity and its importance. <b>(BL3-</b> nvironmental pollution, its impact on human <b>4-Analyze)</b> sasters causes and impact of disaster and									
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment √		SDG1(No poverty) SDG3(Good health and well-being) SDG6(Clean water and sanitation) SDG11(Sustainable cities and economies) SDG13(Climate action) SDG15(Life on land)									

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



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

Title of the Course	Fundamentals of Plant Breeding											
Course Code	GPB- 211[T]	GPB- 211[T]										
& Bloom S Level	Remember) CO2- Explain various breedin Understand) CO3- Demonstrate the high y modern molecular approache CO4- Inference of genetic bas	ig methods, their ielding varieties/ s( <b>BL3-Apply)</b> sis and methods od security throu	nd procedures of plant breeding.( <b>BL1-</b> significance and drawbacks.( <b>BL2-</b> hybrids through various conventional and of breeding.( <b>BL4-Analyze</b> ) igh breeding tools and Intellectual									
Course Elements	Skill Development ✓ 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) SDG13(Climate action) SDG15(Life on land)									

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



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

Title of the Course	Production Technology for Vegetables and Spices									
Course Code	HORT- 211[T]									
Course Outcomes & Bloom's Level	vegetable and spice crops ( CO2- Classify the vegetable Understand) CO3- Demonstrate nursery CO4- Examine the impact of vegetables and Spices (BL	<ul> <li>CO3- Demonstrate nursery raising in various vegetable crops (BL3-Apply)</li> <li>CO4- Examine the impact of various biotic and abiotic stress on the productivity of vegetables and Spices (BL4-Analyze)</li> <li>CO5- Determine the cost of cultivation of different vegetable and spice crops (BL5-</li> </ul>								
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) 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	-	-	-	1	2	-	-	-	-	-	-	-	3	-	_
CO2	-	2	2	-	1	-	1	-	-	-	1	-	-	3	-
CO3	1	-	1	2	1	-	2	-	-	-	-	2	-	1	3
CO4	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
CO5	-	3	2	1	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Statistical Methods	Statistical Methods									
Course Code	STAT-221[T]										
	(BL1-Remember) CO2- Understand the bas data analysis (BL2-Unde CO3- Calculate the vario CO4- Analyze the signific inference (BL4-Analyze) CO5- Evaluate the use/re	<ul> <li>O2- Understand the basic concepts of various statistical tools used for agricultural ata analysis (BL2-Understand)</li> <li>O3- Calculate the various statistical parameters of given data samples (BL3-Apply)</li> <li>O4- Analyze the significance of various statistical tools results and draw meaningful aference (BL4-Analyze)</li> <li>O5- Evaluate the use/role of various statistical software used for agricultural data sets est/analysis (BL5-Evaluate)</li> </ul>									
Course Elements	Skill Development ✓ 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) SDG5(Gender equality) SDG8(Decent work and economic growth) SDG10(Reduced inequalities) SDG12(Responsible consuption and production) SDG13(Climate action)								

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



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

Title of the Course	Agri- Informatics	Agri- Informatics									
Course Code	STAT-222[T]										
Course Outcomes & Bloom's Level	CO2- Describe the compu CO3- Demonstrate the ap (BL3-Apply) CO4- Estimate water and Analyze) CO5- Evaluate the outcor CO6- Develop plan for ap	<b>CO4-</b> Estimate water and nutrient requirements of crop using CSM and IT tools. ( <b>BL4-</b>									
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) 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	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	2	2	-	-	-	-	-	-	-	3	1	-
CO2	-	3	3	3	2	-	-	-	-	-	-	-	1	3	-
CO3	2	-	-	2	-	-	-	-	-	-	2	-	-	-	2
CO4	-	2	-	3	-	-	-	-	-	-	2	2	-	-	-
CO5	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Agricultural Marketing, Trade and Prices									
Course Code	AE- 221 [T]									
	Remember) CO2- Understand the mar reference to different mark CO3- Compute the marke (BL3-Apply) CO4- Analyse marketing f improving the producer ind	keting structure keting functions ting profit, prici unctions, mark come. <b>(BL4-Ar</b>	ng spread, producer surplus and efficiency. et information and market intelligence for							
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG8(Decent work and economic growth) SDG10(Reduced inequalities) SDG12(Responsible consuption and production) SDG17(Partnerships for the goals)							

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



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

Title of the Course	Renewable Energy and	Renewable Energy and Green Technology									
Course Code	AENG-221[T]										
& Bloom's Level	Understand) CO2- Understand the ne Understand) CO3- Demonstration the plant(BL3-Apply) CO4- Examine the differ	<ul> <li>CO2- Understand the need of renewable energy in agricultural sector(BL2-Inderstand)</li> <li>CO3- Demonstration the biogas plants and also calculate the capacity of biogas lant(BL3-Apply)</li> <li>CO4- Examine the different solar energy gadgets and their uses(BL4-Analyze)</li> <li>CO5- Determine the production process of biofuels, biodiesel, bio-oil and biogas(BL5-</li> </ul>									
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG7(Affordable and clean energy) SDG11(Sustainable cities and economies) SDG12(Responsible consuption and production) SDG13(Climate action) SDG14(Life below water) SDG15(Life on land) SDG17(Partnerships for the goals)								

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



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

Title of the Course	Crop Production Technolo	Crop Production Technology - II (Rabi crops)									
Course Code	AGRON- 221[T]										
	technologies of different R CO2- Explain steps involv management (BL2-Under CO3- Apply the principles productivity and resource CO4- Investigate the role Rabi crops (BL4-Analyze	Rabi crops( <b>BL1</b> red in preparati r <b>stand)</b> and concepts use efficiency of different agr ) ic viability of di	on of field outline, crop production and of agronomy on the field to improve the crop								
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)								

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



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

Title of the Course	Farming System & Sustain	Farming System & Sustainable Agriculture									
Course Code	AGRON- 222 [T]										
	Remember) CO2- Explain the interaction CO3- Utilize the different co sustainable ecosystem (BL CO4- Investigate the sustai (BL4-Analyze) CO5- Judge the sustainabil	n between diff oncepts of IFS <b>3-Apply)</b> nability of diffe	ng systems and sustainable agriculture <b>(BL1-</b> erent farm enterprises <b>(BL2-Understand)</b> to enhance the crop productivity in erent indicators in various framing system farming system models in different agro- tput of the resources in sustainable manner								
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) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG13(Climate action) SDG13(Climate action) SDG14(Life below water) SDG15(Life on land) SDG17(Partnerships for the goals)								

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



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

Title of the Course	Introductory Agrometeor	ntroductory Agrometeorology and Climate Change									
Course Code	AGRON-223[T]										
Course Outcomes & Bloom's Level	<b>CO2-</b> Understand the clin between weather variable <b>CO3-</b> Apply the technics improve the crop yield. () <b>CO4-</b> Analysis the causes for climate change and gl	natic normal, p es and agricultu for modification s of extreme w obal warming.	n of climate to minimization the losses and eather conditions and the factors responsible								
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) SDG6(Clean water and sanitation) SDG7(Affordable and clean energy) SDG8(Decent work and economic growth) SDG11(Sustainable cities and economies) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)								

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



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

Title of the Course	Principles of Seed Techno	logy	
Course Code	GPB- 221[T]		
	technology, seed storage, or CO2- Classify different cate of various field operation us CO3- Demonstrate seed points seed certification process and CO4- Analyze seed health treatment to break dorman CO5- Assess the process and production systems and see CO6- Formulate the seed points	certification an agories of seed roduction techn and laws assoc (Purity, viabilit acy of seed and seed productio eed quality test production, sto	c principles and concepts of seed production ad marketing (BL1-Remember) d and dormancy and discuss the importance roduction (BL2-Understand) nology in cereals, oilseed and pulses crop and ciated with seed legislation (BL3-Apply) ty, germination) and examine the causes and d marketing potential of seed (BL4-Analyze) on of various agricultural crops in different seed ting and marketing process (BL5-Evaluate) orage, certification and marketing strategies for rent ecosystems (BL6-Create)
Course Elements	Skill Development ✓ Entrepreneurship ✓ 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) SDG5(Gender equality) SDG6(Clean water and sanitation) SDG7(Affordable and clean energy) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)

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



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

Title of the Course	Production Technology fo	Production Technology for Ornamental Crops, MAP and Landscaping								
Course Code	HORT- 221[T]	HORT- 221[T]								
	respective uses (BL1-Rer CO2- Understand the bas gardens. (BL2-Understar CO3- Demonstrate variou ornamental, medicinal and CO4- Analyse the challen and aromatic crops produ	member) ic principles of nd) s intercultural d aromatic crop ges and oppor ces (BL4-Ana	tunities in marketing of ornamental, medicinal							
Course Elements	Skill Development ✓ Entrepreneurship ✓ 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) SDG8(Decent work and economic growth) SDG11(Sustainable cities and economies) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)							

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



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

Title of the Course	Production Technology for	Production Technology for Fruit and Plantation Crops								
Course Code	HORT- 222[T]	HORT- 222[T]								
	international level(BL1-Re CO2- Understand the clim Understand) CO3- Demonstrate the va crops(BL3-Apply) CO4- Analyze the role of of fruit and plantation crops	emember) natic requireme rious intercultu canopy manag produces(BL4 of various tec	ruit and plantation crops and national and ent of various fruit and plantation crops. <b>(BL2-</b> anal operations practiced in horticultural ement for maximising the yield and quality of <b>Analyze)</b> hnologies on fruit and plantation							
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)									

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



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

Title of the Course	Problematic Soils and the	Problematic Soils and their Management								
Course Code	SS- 221[T]	3S- 221[T]								
& Bloom S Level	<ul> <li>CO1- Describe the current scenario of problematic soils in India. (BL2-Understand)</li> <li>CO2- Illustrate the processes responsible for the formation of problematic soils (BL2-Understand)</li> <li>CO3- CO-3 Apply remote sensing and GIS techniques for identification, diagnosis and management of problematic soils. (BL3-Apply)</li> <li>CO4- Analyse the quality of irrigation water and soil health and its suitability for use in various crops (BL4-Analyze)</li> <li>CO5- Assess the effects of various reclamation strategies in management of problematic soils (BL5-Evaluate)</li> </ul>									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment ✓	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG6(Clean water and sanitation) SDG11(Sustainable cities and economies) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)							

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



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

Title of the Course	Education Tour	ducation Tour									
Course Code	EDUT - 200										
Course Outcomes & Bloom's Level	CO2- To compare Rea CO3- To make the mod CO4- To classify the ur CO5- To evaluate Soci	<ul> <li>O1- To define social life(BL1-Remember)</li> <li>O2- To compare Real-Life Situations(BL2-Understand)</li> <li>O3- To make the models of the Social and Emotional Development(BL3-Apply)</li> <li>O4- To classify the unique opportunities (BL4-Analyze)</li> <li>O5- To evaluate Social and Emotional Development(BL5-Evaluate)</li> <li>O6- To develop new skills and interests(BL6-Create)</li> </ul>									
	Skill Development X 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) SDG11(Sustainable cities and economies) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG16(Peace Justice and strong institutions) SDG17(Partnerships for the goals)								

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



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

Title of the Course	Micro propagation Technologies								
Course Code	ELCT– GPB-221[T]								
Course Outcomes & Bloom's Level	<ul> <li>CO1- To understand terminology and definitions related to micro-p</li> <li>Remember)</li> <li>CO2- To acquainted with different micro-propagtion techniques (B</li> <li>CO3- To apply the knowledge for micro-propagation of economical</li> <li>(BL3-Apply)</li> <li>CO4- To get familiar with the requirements to set up a plant tissue</li> <li>(BL4-Analyze)</li> <li>CO5- To design strategies for commercial exploration of gained kr propagation technology (BL5-Evaluate)</li> </ul>	BL2-Understand) ally valued crops culture laboratory							
Course Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × Human Values × Environment ×SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and w SDG5(Gender equality) SDG6(Clean water and sa 	anitation) economic growth) suption and							

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	2	2	-	-	-	-	-	-	-	3	1	-
CO2	-	3	2	1	3	-	1	-	-	-	-	1	1	3	-
CO3	3	-	1	2	1	-	-	1	-	-	1	2	-	-	2
CO4	-	3	-	1	-	-	1	-	-	-	1	1	-	1	-
CO5	-	2	5	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Agribusiness Manageme	Agribusiness Management								
Course Code	ELCT-AE-221[T]									
	CO2- Describe agribusing CO3- Apply the knowledg agribusiness profitably. (E CO4- Analyse agri-busing change(BL4-Analyze) CO5- Appraise the project Evaluate)	ess, its concep ge of managen <b>3L3-Apply)</b> ess situations, cts for their ecc agribusiness p	nanagement <b>(BL1-Remember)</b> ots and value addition chain <b>(BL2-Understand)</b> ment functions in establishing and running implement plans and manage strategic pnomic feasibility and profitability <b>(BL5-</b> rojects with capital and market							
Course Elements	Skill Development ✓ Entrepreneurship × Employability ✓SDG1(No poverty) SDG2(Zero hunger) SDG5(Gender equality) SDG8(Decent work and economic grow SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)									

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



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

Title of the Course	Processing Technology of Cereals											
Course Code	ELCT-FST-221[T]	LCT-FST-221[T]										
Course Outcomes & Bloom's Level	<b>CO2-</b> Describe the mill <b>CO3-</b> Demonstrate cer <b>CO4-</b> Use the cereal-ba	ing of cereals( eal based prod ased by-produ	cessed products(BL3-Apply)									
Course Elements	Skill Development ✓ 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) SDG5(Gender equality) SDG7(Affordable and clean energy) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)									

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



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

Title of the Course	Hi-tech. Horticulture										
Course Code	ELCT-HORT-221[T]										
	skills on hi-tech horticultur CO2- Theoretical knowled nursery preparation. (BL2 CO3- Study about INM & DGPS. (BL3-Apply) CO4- Ability to use technic practice equipment (BL4-/	e technology a lge about preci <b>-Understand)</b> IPM, IWM, proi ques and instru <b>Analyze)</b>	ficient theoretical knowledge with practical and methods <b>(BL1-Remember)</b> ision farming and various implements used in tected cultivation, remote sensing and GIS and uments involved in the study of orchard ursery preparation and propagation method								
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) SDG5(Gender equality) SDG6(Clean water and sanitation) SDG7(Affordable and clean energy) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG11(Sustainable cities and economies) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)								

-															
COs	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	2	-	-	-	-	-	-	-	-	3	1	-
CO2	-	1	1	-	1	-	-	-	-	-	-	-	1	2	-
CO3	2	-	1	1	1	-	1	-	-	-	-	2	-	3	1
CO4	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-
CO5	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Weed Management	Weed Management									
Course Code	ELCT-AGRON-221[T]										
	herbicides along with their CO2- Classify and charact different parameters (BL2- CO3- Demonstrate the use in the field (BL3-Apply) CO4- Investigate the differ and examine and cause an	respective cha erized various <b>Understand)</b> e of different m ential effects o nd managemented weed weed weed weed weed weed weed w	eeds management different weed plants and aracteristics & nature ( <b>BL1-Remember</b> ) crop weed plants and herbicides based on ethods and technology of weed management f various herbicides on different weed plants nt of herbicide resistance ( <b>BL4-Analyze</b> ) agement (IWM) models in different crops <b>Evaluate</b> )								
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)								

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



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

Title of the Course	Entrepreneurship Development and Business Communication									
Course Code	AEXT-311[T]									
	CO3- Apply the knowledge and managing an enterpris CO4- Analyze the emergir entrepreneurship(BL4-Ana CO5- Prepare their own pr	<ul> <li>CO2- Describe the agri-preneurship, startups and commercialization(BL2-Understand)</li> <li>CO3- Apply the knowledge of entrepreneurial and managerial attributes for operating nd managing an enterprise(BL3-Apply)</li> <li>CO4- Analyze the emerging domestic and international issues related to agriculture ntrepreneurship(BL4-Analyze)</li> <li>CO5- Prepare their own project for establishing enterprises as trained entrepreneurs hey would not seek the job, but give the job to others.(BL5-Evaluate)</li> </ul>								
	Skill Development ✓         Entrepreneurship ×         Employability ×         Professional Ethics ×         Gender ×         Human Values ×         Environment ×    SDG (Goals) SDG10(Reduced inequalities) SDG12(Responsible consuption and production) SDG17(Partnerships for the goals)									

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



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

Title of the Course	Geoinformatics and Nano-technology and Precision Farming										
Course Code	AGRON-311 [T]										
Course Outcomes & Bloom's Level	farming (BL1-Remember) CO2- Explain about the eff quality without affecting the CO3- Apply precision agric issues that surround produ CO4- Simplify and encoura the input parameters using	fective use of ir e environment culture which a uction agricultur age the farmers g primary data i nsequences of a	iddress both economic and environmental re today ( <b>BL3-Apply</b> ) s to study of special and temporal variability of in field level ( <b>BL4-Analyze</b> ) applying imbalance dose of farm input like								
Course Elements	Skill Development X Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG2(Zero hunger) SDG6(Clean water and sanitation) SDG12(Responsible consuption and production) 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	-	3	-	-	-	-	-	3	-	-
CO2	-	2	2	2	3	2	3	-	-	-	-	-	1	2	-
CO3	-	-	2	2	3	2	3	-	-	-	-	-	-	2	1
CO4	-	2	-	2	-	-	-	-	-	-	-	-	-	-	-
CO5	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Environmental Studies and	nvironmental Studies and Disaster Management											
Course Code	CP-311 [T]												
Course Outcomes & Bloom's Level	resource, its importance and resource. (BL1-Remember) CO2- To know about Ecosys upon the abiotic component CO3- Gain knowledge abou Apply) CO4- Aware students about and ecosystem and control	d environmenta stem and gain k s. <b>(BL2-Unders</b> t the conservati problems of er measures. <b>(BL</b> 4 earn types of di	ion of biodiversity and its importance. <b>(BL3-</b> nvironmental pollution, its impact on human <b>4-Analyze)</b> sasters causes and impact of disaster and										
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG1(No poverty) SDG3(Good health and well-being) SDG6(Clean water and sanitation) SDG11(Sustainable cities and economies) SDG13(Climate action) SDG14(Life below water) SDG15(Life on land)										

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



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

Title of the Course	Pests of Crops and Stored	ests of Crops and Stored Grain and their Management										
Course Code	ENT-311 [T]											
Course Outcomes & Bloom's Level	ornamentals, vegetables ar CO2- Understand how inse production, and be able to s species in habitats and in p impact(BL2-Understand) CO3- To be able about the relationships to crop and th CO4- To understand identif pest so suitable technique of Analyze) CO5- Management of crop	nd stored grain cts affect anim safely manipula roduction agro biology, diversi e environment ication of natur of pest manage pest through li	ferent insect pest of field, horticulture, s at the field level.( <b>BL1-Remember</b> ) hal and Plant health and agricultural ate populations of beneficial and destructive becosystems with minimal environmental ity, distribution of insects, and their condition of a particular area( <b>BL3-Apply</b> ) re of damage and symptoms caused by the ement can be apply for effective control.( <b>BL4-</b> integrated Pest Management approach invironment health( <b>BL5-Evaluate</b> )									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG6(Clean water and sanitation) 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	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
CO3	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
CO5	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Crop Improvement-I (Kharif	rop Improvement-I (Kharif Crops)										
Course Code	GPB-311 [T]											
	improvement (BL1-Rememb CO2- Explain the various pro- interest and advance techno (BL2-Understand) CO3- Utilize the crop improv varieties, F1 hybrids and adv CO4- Investigate the suitabil traits depending upon gene a (BL4-Analyze) CO5- Assess the breeding b maintenance strategies (BL5 CO6- Formulate the breeding	ber) bocedures use blogies used for vement conce vance breedir lity of differen action, inherit behaviour of v 5-Evaluate) g strategies for	methods and technologies used in crop d for PGR conservation, transfer of traits of or seed production in different kharif crops pts and principles for developing improved ng lines ( <b>BL3-Apply</b> ) t methods and technologies for the particular cance pattern and nature of donor parents arious breeding population along with their or transferring gene of interest from different nd quality traits ( <b>BL6-Create</b> )									
Course Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × S Gender × Human Values × Environment ×	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG6(Clean water and sanitation) 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	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	2	2	-	-	-	-	-	-	-	3	1	-
CO2	-	3	2	1	3	-	1	-	-	-	-	1	1	3	-
CO3	3	-	1	2	1	-	-	1	-	-	1	2	-	-	2
CO4	-	3	-	1	-	-	1	-	-	-	1	1	-	1	-
CO5	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Intellectual Property Righ	ntellectual Property Rights										
Course Code	GPB-312 [T]											
	CO2- Explain the various Understand) CO3- Apply the various IF knowledge based econon CO4- Analyse the process at national and internation	tinds of IPRs( <b>BL1-Remember</b> ) <b>CO2-</b> Explain the various legal frameworks and instruments related to IPRs( <b>BL2-Jnderstand</b> ) <b>CO3-</b> Apply the various IPR tools with respect to wealth and value creation in a knowledge based economy( <b>BL3-Apply</b> ) <b>CO4-</b> Analyse the process of protection of the various kinds of intellectual property (IP) at national and international level( <b>BL4-Analyze</b> ) <b>CO5-</b> Evaluate the impact of National IPR Policy on agricultural research and										
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics √ Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG10(Reduced inequalities) SDG12(Responsible consuption and production) SDG17(Partnerships for the goals)									

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



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

Title of the Course	Disease of field and Hortid	Disease of field and Horticultural crops and Their Management-1											
Course Code	PP-311 [T]	PP-311 [T]											
Course Outcomes & Bloom's Level	<b>CO2-</b> Identify the different and horticultural crops. ( <b>B</b> <b>CO3-</b> Demonstrate the dis diseases ( <b>BL3-Apply</b> )	hytoplasmal pathogens on field and horticultural crops. (BL1-Remember) CO2- Identify the different types of pathogens and their etiology associated with field and horticultural crops. (BL2-Understand) CO3- Demonstrate the disease cycle and favourable condition for development of iseases (BL3-Apply) CO4- Investigate the management practices for major diseases of field and horticultural rops(BL4-Analyze)											
	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment ✓	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG6(Clean water and sanitation) 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	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	1	-	-	-	-	-	-	2	-	3	1	-
CO2	-	1	1	1	-	-	-	-	-	-	-	-	-	3	-
CO3	3	-	2	2	2	1	2	-	-	-	2	2	-	-	2
CO4	-	2	-	3	1	2	2	-	-	-	2	1	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Principals of integrated F	Pest and Disea	ise Management							
Course Code	PP-312 [T]	PP-312 [T]								
Course Outcomes & Bloom's Level	management (BL1-Remo CO2- Identify the differen CO3- Demonstrate the er CO4- Investigate the occ Analyze)	<b>CO5-</b> Evaluate the suitability of modules of IPDM in different environmental conditions ( <b>BL5-Evaluate</b> )								
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG6(Clean water and sanitation) 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	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	1	-	-	-	-	-	-	-	-	3	1	-
CO2	-	1	2	2	-	-	-	-	-	-	-	-	-	3	-
CO3	3	-	-	1	2	-	-	-	-	1	2	2	-	-	2
CO4	-	2	-	-	-	-	-	-	-	1	1	1	-	-	-
CO5	-	-	1	2	-	-	1	-	-	2	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Manures, Fertilizers and	Soil Fertility Ma	anagement						
Course Code	SS-311 [T]								
Course Outcomes & Bloom's Level	<ul> <li>CO1- Describe different types of manures and fertilizers(BL1-Remember)</li> <li>CO2- Understand the use of different types of manures and fertilizers in soil fertility management(BL2-Understand)</li> <li>CO3- Estimate the content of major essential plant nutrients in soil and plant samples(BL3-Apply)</li> <li>CO4- Examine the deficiency and toxicity symptoms of essential plant nutrients(BL4-Analyze)</li> <li>CO5- Justify the role of integrated nutrient management practices in maintaining the soil health in sustainable manner(BL5-Evaluate)</li> </ul>								
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) SDG6(Clean water and sanitation) 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
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
CO4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Practical Crop Production	-I (Kharif Crop)	)							
Course Code	AGRON-312 [P]									
Course Outcomes & Bloom's Level	<ul> <li>CO1- Describe the basic concepts and principles of crop production, management and protection (BL1-Remember)</li> <li>CO2- Illustrate the conventional practices and novel technological advances in the field of crop production, seed production and crop protection (BL2-Understand)</li> <li>CO3- Utilize the conventional and novel technologies in field to achieve high economic return in sustainable manner (BL3-Apply)</li> <li>CO4- Analyse the impact of various intercultural operation, technological intervention on yield and quality in different kharif crops (BL4-Analyze)</li> <li>CO5- Assess the sustainability of various crop production technologies for commercial crop production and quality seed production with better cost benefit ratio (BL5-Evaluate)</li> </ul>									
Course Elements	Skill Development ✓ Entrepreneurship ✓ 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) SDG9(Industry Innovation and Infrastructure) SDG10(Reduced inequalities) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)							

											•				
COs	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	2	3	-	3	-	-	-	-	-	3	-	-
CO2	-	2	2	2	3	2	3	-	-	-	-	-	1	2	-
CO3	-	-	2	2	3	2	3	-	-	-	-	-	-	2	1
CO4	-	2	-	2	-	-	-	-	-	-	-	-	-	-	-
CO5	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Commercial Plant Breeding	ng							
Course Code	ELCT-GPB-311[T]								
Course Outcomes & Bloom's Level	Remember) CO2- Classify the seed pr Understand) CO3- Demonstrate various laboratory levels (BL3-Ap CO4- Analyse various tech at commercial level. (BL4-	roduction syste s methods of C p <b>ly)</b> hniques and th <b>-Analyze)</b> of the seed and	for commercial production of seed <b>(BL1-</b> ems through the breeding techniques <b>(BL2-</b> Commercial breeding techniques at field and ne effectiveness of breeding techniques utilized I Judge the performance of high yielding and <b>L5-Evaluate</b> )						
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land)						

COs	P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	2	2	-	-	-	-	-	-	-	3	1	-
CO2	-	3	2	1	3	-	1	-	-	-	-	1	1	3	-
CO3	3	-	1	2	1	-	-	1	-	-	1	2	-	-	2
CO4	-	3	-	1	-	-	1	-	-	-	1	1	-	1	-
CO5	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Agriculture Journalism	Agriculture Journalism								
Course Code	ELCT-AE-311[T]	ELCT-AE-311[T]								
	CO2- Understand the d Understand) CO3- Apply their knowle CO4- Improve readabili CO5- Analyze the sourc Evaluate)	CO3- Apply their knowledge in communication media(BL3-Apply) CO4- Improve readability measures(BL4-Analyze) CO5- Analyze the source of information and their role in agricultural journalism(BL5-								
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)							

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



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

Title of the Course	Artificial Intelligence									
Course Code	ELCT-AENG-311[T]									
	<ul> <li>CO1- Remember the LIPS and PROLOG. (BL1-Remember)</li> <li>CO2- Describe A and AO logarithm(BL2-Understand)</li> <li>CO3- Apply the knowledge of LIPS and PROLOG in constructing symbolic grammars for natural language that would be used to construct logical representations of sentences. (BL3-Apply)</li> <li>CO4- Analyse the uncertainty on the basis of probabilistic interferences. (BL4-Analyze)</li> <li>CO5- Prepare the robot with artificial intelligence. (BL5-Evaluate)</li> </ul>									
Course Elements	Skill Development ✓ Entrepreneurship × Employability × Professional Ethics ✓ Gender × Human Values × Environment ×	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG4(Quality education) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG15(Life on land)							

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



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

Title of the Course	Biopesticides and Biofert	Biopesticides and Biofertilizers										
Course Code	ELCT-ENT-311[T]											
	Understand) CO3- Utilize the quality para maintaining the soil health CO4- Examine the signific organic farming(BL4-Ana CO5- Determine the perfor application(BL5-Evaluate	CO2- Explain the concepts and classification of bio-fertilizers and bio-pesticides (BL2-										
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) SDG6(Clean water and sanitation) 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	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	1	1	-	-	-	-	-	-	-	3	1	-
CO2	-	1	1	-	2	-	1	-	-	-	2	-	-	3	-
CO3	2	-	2	1	2	-	1	-	-	-	1	1	-	-	2
CO4	-	1	1	-	-	-	-	-	-	-	-	2	-	-	-
CO5	-	1	-	-	-	-	-	-	-	-	2	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Processing Technology of	Processing Technology of Fruits and Vegetables										
Course Code	ELCT-FST-311[T]											
	(BL1-Remember) CO2- Explain the basic p Understand) CO3- Use the processing vegetables (BL3-Apply) CO4- Examine the specif regulatory bodies (BL4-A	rocessing methods for for the second	status and supply chain of fruits and vegetables nods of processing and canning <b>(BL2-</b> ormulation of the products from fruits and ferent processed products formulated by on and machines for manufacturing different									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG12(Responsible consuption and production) 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	-	1	-	-	-	-	-	-	-	1	2	-
CO3	2	-	1	1	1	-	1	-	-	-	-	2	-	3	1
CO4	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-
CO5	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Landscaping		
Course Code	ELCT-HORT-311[T]		
Course Outcomes & Bloom's Level	CO2- Explain importanc Understand) CO3- Demonstrate the v Apply) CO4- Examine the meth CO5- Evaluate various s (BL5-Evaluate)	e of Software l various methoo ods of various software for lar	ape designing <b>(BL1-Remember)</b> based learning of landscape architecture <b>(BL2-</b> ds/ approaches of Bonsai management. <b>(BL3-</b> lawn management techniques. <b>(BL4-Analyze)</b> ndscape based on performance and designing and private landscape area. <b>(BL6-Create)</b>
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG11(Sustainable cities and economies) SDG12(Responsible consuption and production) 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	-	1	-	-	-	-	-	-	-	1	2	-
CO3	2	-	1	1	1	-	1	-	-	-	-	2	-	3	1
CO4	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-
CO5	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Farm Management, Prod	Farm Management, Production and Resources Economics											
Course Code	AE-321[T]	AE-321[T]											
Course Outcomes & Bloom's Level	CO2- Understand factor-p static production economi CO3- Utilization of farm re (BL3-Apply) CO4- Examine the farm p	<ul> <li>CO1- Describes law of return in farm management (BL1-Remember)</li> <li>CO2- Understand factor-product, factor-factor and product- product relationship in tatic production economics. (BL2-Understand)</li> <li>CO3- Utilization of farm resources and selection of crops and livestock's enterprises</li> <li>BL3-Apply)</li> <li>CO4- Examine the farm planning and farm budgeting techniques (BL4-Analyze)</li> <li>CO5- Evaluate the balance sheet and profit and loss statement (BL5-Evaluate)</li> </ul>											
	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) 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	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
CO2	-	1	-	1	1	1	-	1	-	-	2	1	-	-	-
CO3	3	1	2	1	2	2	-	2	-	-	3	2	-	-	-
CO4	-	2	-	1	-	-	-	1	-	-	1	1	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Protected Cultivation And	Protected Cultivation And Secondary Agriculture											
Course Code	AENG-321[T]												
Course Outcomes & Bloom's Level	Remember) CO2- Discuss various typ CO3- Apply the concept of CO4- Examine the basics Analyze) CO5- Evaluate the utility protected structures. (BL	bes of greenho of protected cu s of nursery ma of different gro <b>5-Evaluate)</b>	ed cultivation and its scope in India. <b>(BL1-</b> use structures <b>(BL2-Understand)</b> Itivation in major crops of India. <b>(BL3-Apply)</b> anagement under protected structures. <b>(BL4-</b> wing media and growing conditions under protected cultivation and structures. <b>(BL6-</b>										
Course Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × Gender × Human Values × Environment ✓		SDG2(Zero hunger) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land)										

COs	PO1	PO2	PU3		PO5	POG	PO7	PO8	P∩a	PO10	PO11	P∩12	PSO1	PSO2	PSU3
003		1 02	105	104	105		107	100	109			1012	1 301	1 002	1 303
CO1	-	-	-	1	1	-	-	-	-	-	-	-	3	1	-
CO2	-	2	1	-	2	-	1	-	-	-	2	-	-	3	-
CO3	2	-	2	1	2	-	1	-	-	-	1	1	-	-	2
CO4	-	1	1	-	-	-	-	-	-	-	-	2	-	-	-
CO5	-	1	-	-	-	-	-	-	-	-	2	-	-	-	-
CO6	-	-	-	-	-	2	-	-	-	-	2	-	-	-	-



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

Title of the Course	Rainfed Agriculture and Wate	Rainfed Agriculture and Watershed Management										
Course Code	AGRON-321[T]											
Course Outcomes & Bloom's Level	ecosystem resources (BL1-Re CO2- Understand public polici Understand) CO3- Apply the principles and improve the crop productivity i CO4- Analyse the impact of w	emember) es and practices concepts in the n Rainfed ecosy atershed plannin	field to conserve water resources and									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment ✓	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG6(Clean water and sanitation) 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	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
CO3	-	3	3	1	1	2	1	1	2	-	1	1	-	-	2
CO4	-	3	3	1	1	-	-	1	-	-	1	1	-	1	-
CO5	-	3	2	-	-	-	-	-	-	-	-	-	-	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Principal Of Organic Far	rincipal Of Organic Farming											
Course Code	AGRON-322[T]												
Course Outcomes & Bloom's Level	<b>CO2-</b> Explain the concept fortification ( <b>BL2-Unders CO3-</b> Demonstrate the rest	ot of organic eco stand) estrictions to nu	es of organic farming. <b>(BL1-Remember)</b> osystem; and organic nutrient resources and its utrient use in organic farming. <b>(BL3-Apply)</b> and standards of organic farming. <b>(BL4-</b>										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG6(Clean water and sanitation) SDG12(Responsible consuption and production) 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	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-
CO3	-	3	3	1	1	2	1	1	2	-	1	1	-	-	2
CO4	-	3	3	1	1	-	-	1	-	-	1	1	-	1	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Management of Beneficia	lanagement of Beneficial Insect											
Course Code	ENT-321[T]												
Course Outcomes & Bloom's Level	and predators. (BL1-Remo CO2- Explain the rearing t according to their behavior CO3- Demonstrate the ma biological control agents. ( CO4- Analyse the effect of and also mass rearing tec	ember) echniques and ural and ecolog iss multiplicatic <b>BL3-Apply)</b> f cultivation me hniques of bio-	ial insects including pollinators, parasitoids management practices of beneficial insects gical aspects <b>(BL2-Understand)</b> on techniques of commercial insects and thods of commercial insect on their produce control agents <b>(BL4-Analyze)</b> ies on the pest management <b>(BL5-Evaluate)</b>										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG2(Zero hunger) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land)										

			-	-	-		-								
COs	P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	1	2	-	1	-	-	-	-	-	2	1	-
CO2	-	1	1	2	1	2	2	1	-	-	1	1	1	3	-
CO3	3	-	2	3	2	1	3	2	-	-	2	2	-	-	2
CO4	-	1	-	1	-	-	-	1	-	-	1	1	-	-	-
CO5	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Principles of food scier	nce and Nutriti	on
Course Code	FST-321 [T]		
Course Outcomes & Bloom's Level	Remember) CO2- Identify the nutrit CO3- Use the principle CO4- Examine the nutr	ional composit s of preservati itional deficien	al properties of components of food( <b>BL1-</b> ion of food( <b>BL2-Understand</b> ) on and methods of preservations( <b>BL3-Apply</b> ) icy in the community( <b>BL4-Analyze</b> ) ced diet( <b>BL5-Evaluate</b> )
	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X		SDG2(Zero hunger) SDG3(Good health and well-being) SDG12(Responsible consuption and production) SDG15(Life on land)

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



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

Title of the Course	Crop Improvement-II (R	op Improvement-II (Rabi Crops)											
Course Code	GPB-321[T]												
Course Outcomes	CO2- To understand the (BL2-Understand) CO3- To apply various to CO4- To analyses differe (BL4-Analyze)	<ul> <li>3- To apply various techniques for improving the crops.(BL3-Apply)</li> <li>4- To analyses different crop improvement techniques for finding definite goals.</li> </ul>											
	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG12(Responsible consuption and production) 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	2	-	-	-	-	-	-	-	3	1	-
CO2	-	3	2	1	3	-	1	-	-	-	-	1	1	3	-
CO3	3	-	1	2	1	-	-	1	-	-	1	2	-	-	2
CO4	-	3	-	1	-	-	1	-	-	-	1	1	-	1	-
CO5	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Post Harvest Managem	ost Harvest Management and Value Addition of Fruit and Vegetables											
Course Code	HORT-321[T]	DRT-321[T]											
	(BL1-Remember) CO2- Illustrate the matur CO3- Describe different s CO4- Discuss principle a	rity and ripening storage technic and methods of	arvest loss and changes in fruits and vegetables. Ig process. <b>(BL2-Understand)</b> ques for horticultural produce. <b>(BL3-Apply)</b> f processing or value addition. <b>(BL4-Analyze)</b> m fruit and vegetable <b>(BL5-Evaluate)</b>										
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG2(Zero hunger) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG13(Climate action)										

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



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

Title of the Course	Disease of field and Horticultural crops and Their Management-II									
Course Code	PP-321[T]									
Course Outcomes & Bloom's Level	<ul> <li>CO1- Describe the types of symptoms produced by Fungal, Bacterial, viral and Phytoplasmal pathogens on field and horticultural crops. (BL1-Remember)</li> <li>CO2- Identify the different types of pathogens and their etiology associated with field and horticultural crops. (BL2-Understand)</li> <li>CO3- Demonstrate the disease cycle and favourable condition for development of diseases (BL3-Apply)</li> <li>CO4- Investigate the management practices for major diseases of field and horticultural crops. (BL4-Analyze)</li> </ul>									
	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment √	SDG (Goale)	SDG2(Zero hunger) SDG12(Responsible consuption and production) SDG15(Life on land)							

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



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

Title of the Course	Practical Crop Production-II (Rabi Crop)									
Course Code	AGRON-323 [P]									
Course Outcomes & Bloom's Level	<ul> <li>CO1- Describe the basic concepts and principles of crop production, management and protection (BL1-Remember)</li> <li>CO2- Illustrate the conventional practices and novel technological advances in the field of crop production, seed production and crop protection (BL2-Understand)</li> <li>CO3- Utilize the conventional and novel technologies in field to achieve high economic return in sustainable manner (BL3-Apply)</li> <li>CO4- Analyse the impact of various intercultural operation, technological intervention on yield and quality in different Rabi crops (BL4-Analyze)</li> <li>CO5- Assess the sustainability of various crop production technologies for commercial crop production and quality seed production with better cost benefit ratio in different Rabi crops (BL5-Evaluate)</li> </ul>									
Course Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG5(Gender equality) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG10(Reduced inequalities) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)							

COs	P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	1	3	-	2	-	-	-	-	-	3	1	-
CO2	-	-	-	-	3	-	2	-	-	-	-	1	1	2	-
CO3	2	-	3	-	2	-	-	-	-	-	-	1	-	-	2
CO4	-	2	-	-	-	-	-	1	-	-	1	-	-	-	-
CO5	-	3	2	-	-	-	-	-	-	-	-	-	-	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Molecular Biology										
Course Code	ELCT-GPB-321[T]										
Course Outcomes & Bloom's Level	Remember) CO2- Understanding of struct (BL2-Understand) CO3- Recognize and interpre- and their interactions (BL3-A CO4- Analyse various technic commercial level. (BL4-Analy CO5- Assess for the new opp	tures, functions, a et the structural a <b>pply)</b> ques and the effe yze) portunities to spe- rerities and enha	ant genetics and hereditary <b>(BL1-</b> and internal controls within individual cells nd functional aspects of plant molecules ectiveness of molecular breeding at ed up plant breeding <b>(BL5-Evaluate)</b> ncing crop resilience to combined abiotic								
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X		SDG2(Zero hunger) SDG3(Good health and well-being) SDG6(Clean water and sanitation) 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	-	1	-	-	-	-	-	-	-	1	2	-
CO3	2	-	-	1	1	-	1	-	-	-	-	2	-	3	1
CO4	-	2	1	-	-	-	-	-	-	-	-	1	-	-	-
CO5	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Information Technology fo	or Land and Wa	ater management							
Course Code	ELCT-AENG-321[T]									
Course Outcomes & Bloom's Level	farming (BL1-Remember) CO2- Explain about the eff quality without affecting the CO3- Apply precision agric issues that surround produ CO4- Simplify and encoura the input parameters using	fective use of in e environment culture which a uction agricultu age the farmer g primary data isequences of	ddress both economic and environmental re today <b>(BL3-Apply)</b> s to study of special and temporal variability of in field level <b>(BL4-Analyze)</b> applying imbalance dose of farm input like							
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG6(Clean water and sanitation) SDG11(Sustainable cities and economies) SDG12(Responsible consuption and production) 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	-	3	-	-	-	-	-	3	-	-
CO2	-	2	2	2	3	2	3	-	-	-	-	-	1	2	-
CO3	-	-	2	2	3	2	3	-	-	-	-	-	-	2	1
CO4	-	2	-	2	-	-	-	-	-	-	-	-	-	-	-
CO5	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	System Simulation And Agro	-Advisory								
Course Code	ELCT-AEXT-321[T]									
	used in agriculture fields(BL1 CO2- Compare the various s Understand) CO3- Demonstrate the use o dissemination of agroadvisor CO4- Analyse the results obt interpretation(BL4-Analyze)	I-Remember) imulation system f various softwar y( <b>BL3-Apply)</b> ained from differ f different system	System simulation tools and techniques ns with their pros and cons( <b>BL2</b> - re for crop modelling, weather forecasting, rent simulation systems with scientific ns in optimum crop modelling diseases aluate)							
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X		SDG2(Zero hunger) SDG13(Climate action) SDG17(Partnerships for the goals)							

COs	P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	2	1	-	2	-	-	-	-	-	1	3	-
CO2	-	2	3	3	2	2	2	1	-	-	-	-	3	1	-
CO3	2	-	2	2	2	1	-	-	-	-	-	-	-	-	2
CO4	-	2	-	1	-	-	-	1	-	-	-	1	-	-	-
CO5	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Agrochemicals									
Course Code	ELCT-ENT-321[T]									
& Bloom S Level	<ul> <li>CO1- acquaint with the advantages and disadvantages of pesticides, plant growth regulators and fertilizers in present scenario. (BL1-Remember)</li> <li>CO2- classify pesticides and fertilizers on the basis of various parameters(BL2-Understand)</li> <li>CO3- apply pesticides for the protection of plants and fertilizers to maintain soil health. (BL3-Apply)</li> <li>CO4- analyze the residual effect of pesticides and fertilizers. (BL4-Analyze)</li> <li>CO5- evaluate the efficacy of pesticides formulation and fertilizers through field application. (BL5-Evaluate)</li> </ul>									
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) SDG6(Clean water and sanitation) SDG12(Responsible consuption and production) SDG14(Life below water) SDG15(Life on land)							

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



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

Title of the Course	Food Safety and Standards									
Course Code	ELCT-FST-321[T]									
Course Outcomes & Bloom's Level	<ul> <li>CO1- Define food safety, hazards and risks factors (BL1-Remember)</li> <li>CO2- Understand importance of hygiene, sanitation in food service establishments and national- international food laws and standards (BL2-Understand)</li> <li>CO3- Utilize food safety management tools and their need for food quality maintenance (BL3-Apply)</li> <li>CO4- Examine water quality, sanitation, hygiene and waste disposal of food processing unit (BL4-Analyze)</li> <li>CO5- Judge packaging, product, nutritional labelling and recent outbreaks (BL5-Evaluate)</li> </ul>									
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being)							

-															
COs	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	2	-	-	-	-	-	-	-	-	3	1	-
CO2	-	1	1	-	1	-	-	-	-	-	-	-	1	2	-
CO3	2	-	-	1	1	-	1	-	-	-	-	2	-	3	1
CO4	-	2	1	-	-	-	-	-	-	-	-	1	-	-	-
CO5	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Protected Cultivation										
Course Code	ELCT-HORT-321[T]	ELCT-HORT-321[T]									
Course Outcomes & Bloom's Level	India. (BL1-Remember) CO2- To classify the cond Understand) CO3- To apply the conce CO4- To examine the Ba Analyze) CO5- To evaluate the util structures. (BL5-Evaluat	cept of classifient pt of protected sics of nursery ity of growing to t <b>e)</b>	ortance of Protected cultivation and its scope in cations of protected structures. (BL2- l cultivation for major crops. (BL3-Apply) r management under protected structures. (BL4- media and growing condition under protected for protected cultivation and structures. (BL6-								
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)								

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



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

Title of the Course	Village Attachment	llage Attachment										
Course Code	RAWE-401											
& Bloom's Level	relation to agriculture and CO2- To make the studen their problems.(BL2-Unde CO3- To impart diagnostic situations through practica CO4- To develop commun transfer of technology.(BL	allied activities ts familiar with erstand) and remedial al training(BL3 hication skills ir .4-Analyze) s with on-going	socio-economic conditions of the farmers and knowledge to the students relevant to real field									
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG4(Quality education) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)									

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



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

Title of the Course	Unit Attachment	nit Attachment											
Course Code	RAWE-402	WE-402											
Course Outcomes & Bloom's Level	<b>CO2-</b> Evaluation of vari <b>Understand)</b> <b>CO3-</b> Analyze the challe	ous practical e enges of conce	the field/lab work activities <b>(BL1-Remember)</b> xposure in the industry/ firm, institutions <b>(BL2-</b> erned institutions, industry <b>(BL3-Apply)</b> marketing channels effects to the product <b>(BL4-</b>										
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×		SDG2(Zero hunger) 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	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	2	2	2	1	-	3	-	1	1	1	1	2	-
CO3	-	3	3	1	1	3	2	1	2	-	1	1	-	-	2
CO4	-	3	3	1	1	-	-	1	-	-	1	1	-	1	-
CO5	-	3	3	-	-	-	-	-	-	-	-	-	-	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Agro- Industrial attachmer	ro- Industrial attachment											
Course Code	RAWE-403	WE-403											
Course Outcomes & Bloom's Level	university(BL1-Remember CO2- To introduce the stud Products, and their applica Understand) CO3- To impart to the pupi problem-solving technique	<b>r)</b> dents to a varie Itions in additio Is an understau s, and worker p	I environment, this cannot be simulated in the ity of Materials, Machines, Processes, in to pertinent shop management topics. <b>(BL2-</b> nding of the manufacturing processes, psychology. <b>(BL3-Apply)</b> crepreneurship during the programme										
	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG2(Zero hunger) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG13(Climate action) SDG17(Partnerships for the goals)										

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



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

Title of the Course	Plant Clinic Attachment	ant Clinic Attachment										
Course Code	RAWE-404											
Course Outcomes & Bloom's Level	<b>Remember)</b> <b>CO2-</b> Evaluation of various <b>CO3-</b> Analyze the challeng protection measures to the	s plant disease ges regarding t e farmers <b>(BL3</b> - ncy of various o	the implementation of suggested plant -Apply) diseases, and the presence of insect pests on									
	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG15(Life on land) SDG17(Partnerships for the goals)									

COs	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	2	2	2	1	-	3	-	1	1	1	1	2	-
CO3	-	3	3	1	1	3	2	1	2	-	1	1	-	-	2
CO4	-	3	3	1	1	-	-	1	-	-	1	1	-	1	-
CO5	-	3	3	-	-	-	-	-	-	-	-	-	-	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Industrial Training On P	dustrial Training On Product Development And Marketing											
Course Code	ELP- ABM-402 [P]	P- ABM-402 [P]											
& Bloom's Level	Remember) CO2- Evaluation of vario production (BL2-Unders CO3- Analyze the challe	<ol> <li>Students will acquire training in the Industrial production and marketing.(BL1- nember)</li> <li>Evaluation of various Industrial products, marketing channel and cost of duction.(BL2-Understand)</li> <li>Analyze the challenges in cost of production and marketing.(BL3-Apply)</li> <li>Evaluate the role of industries and investors.(BL4-Analyze)</li> </ol>											
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG2(Zero hunger) SDG9(Industry Innovation and Infrastructure) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)										

COs	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-
CO3	-	3	2	1	-	-	1	1	1	-	1	1	-	-	2
CO4	-	2	3	1	-	-	-	1	-	-	1	1	-	1	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Agri Warehouse Manage	ement					
Course Code	ELP-AE-401 [P]						
Course Outcomes & Bloom's Level	<ul> <li>CO1- Acquaintance the fundamentals of agricultural warehouse management.(BL1- Remember)</li> <li>CO2- Familiarize with techniques to store different types of agricultural products.(BL2- Understand)</li> <li>CO3- Develop the skills in maintaining and organizing inventories.(BL3-Apply)</li> <li>CO4- Expertise in legal guidelines and safety measures important for agricultural warehouses.(BL4-Analyze)</li> <li>CO5- Implement more efficient handling and shipping techniques for agricultural products.(BL5-Evaluate)</li> </ul>						
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)				

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



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

Title of the Course	Rural Haat and Market	Analysis								
Course Code	ELP-AE-402 [P]									
Course Outcomes & Bloom's Level	CO2- Evaluation of varia (BL2-Understand) CO3- Analyze the challe	<ul> <li>O1- Students will acquire training in the rural market.(BL1-Remember)</li> <li>O2- Evaluation of various rural products, marketing channel and cost of production.</li> <li>BL2-Understand)</li> <li>O3- Analyze the challenges in cost of production and marketing.(BL3-Apply)</li> <li>O4- Evaluate the role of rural industries and market infrastructure.(BL4-Analyze)</li> </ul>								
	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)							

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



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

Title of the Course	Poultry Production Tec	Poultry Production Technology									
Course Code	ELP-AHS-401 [P]	LP-AHS-401 [P]									
& Bloom's Loval	<b>CO2-</b> Explain and dem <b>CO3-</b> Interpret importa <b>CO4-</b> Classification of	<ul> <li>CO1- Describe the role of poultry production in the national economy(BL1-Remember)</li> <li>CO2- Explain and demonstrate important practices at a poultry farm(BL2-Understand)</li> <li>CO3- Interpret important Indian and exotic breeds of poultry(BL3-Apply)</li> <li>CO4- Classification of classes of poultry(BL4-Analyze)</li> <li>CO5- Evaluate livestock and poultry diseases.(BL5-Evaluate)</li> </ul>									
	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×		SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG5(Gender equality) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land)								

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



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

Title of the Course	Production Technology for	or Bio-agents a	nd Bio-fertilizer						
Course Code	ELP-ENT-402 [P]								
	fertilizers(BL1-Remember CO2- Explain the differen of action(BL2-Understan CO3- Demonstrate the pr bio-agents and bio-fertiliz CO4- Explore the various and bio-fertilizers(BL4-Ar CO5- Develop skill for eva	<ul> <li>CO1- Describe the importance scope and limitations of bio-agents and bio-fertilizers(BL1-Remember)</li> <li>CO2- Explain the different types of bio-fertilizers and bio-agents and their mechanism of action(BL2-Understand)</li> <li>CO3- Demonstrate the procedure for Isolation, identification and purification of different bio-agents and bio-fertilizers(BL3-Apply)</li> <li>CO4- Explore the various methods of mass multiplication and formulation of bio-agents and bio-fertilizers(BL4-Analyze)</li> <li>CO5- Develop skill for evaluation and performance of bio-agents and bio-fertilizers in vitro and field application.(BL5-Evaluate)</li> </ul>							
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG6(Clean water and sanitation) SDG12(Responsible consuption and production) SDG15(Life on land)						

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



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

Title of the Course	Storage Entomology	Storage Entomology								
Course Code	ELP-ENT-403 [P]									
Course Outcomes & Bloom's Level	CO2- Evaluation of vari CO3- Analyze the chall Apply)	CO4- Evaluate the role of quality farm product stored protection methods.(BL4-								
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	Entrepreneurship ✓ Employability ✓ Professional Ethics ★ Gender ★ Human Values ★ Bog (Goals) SDG (Goals) SDG (Goals) SDG (Goals) SDG (Industry Innovation and Infrastructure) SDG 12 (Responsible consuption and production) SDG 15 (Life on land)								

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	3	2	-	2	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	3	-	7	-	-	-	-	-	-	-	-
CO4	-	-	2	1	-	-	1	3	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Integrated Fish Farming								
Course Code	ELP-FSC-401 [P]								
Course Outcomes & Bloom's Level	<ul> <li>CO1- Integrate fish farming with other agricultural activities such as crop and livestock production(BL1-Remember)</li> <li>CO2- Promote sustainability by utilizing agricultural waste for reducing environmental pollution and recourse consumption (BL2-Understand)</li> <li>CO3- Apply fish farming to benefit multiple income streams providing financial stability (BL3-Apply)</li> <li>CO4- Analyze the recycling of nutrients from various within systems(BL4-Analyze)</li> <li>CO5- Evaluate various inputs design to minimize environmental impact by reducing pollution from the ecosystem (BL5-Evaluate)</li> </ul>								
Course Elements	Skill Development ✓         Entrepreneurship ✓         Employability ✓         Professional Ethics ×         Gender ×         Human Values ×         Environment ×    SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG6(Clean water and sanitation) SDG12(Responsible consuption and production) SDG14(Life below water) SDG15(Life on land)								

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



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

Title of the Course	Seed Testing and Qualit	Seed Testing and Quality Assessment											
Course Code	ELP-GPB-402 [P]	LP-GPB-402 [P]											
Course Outcomes & Bloom's Level	capacity( <b>BL1-Remembe</b> <b>CO2-</b> Evaluation of seed sale.( <b>BL2-Understand)</b> <b>CO3-</b> Analyze the quality	<b>CO3-</b> Analyze the quality maintenance challenges of commercial Seed.( <b>BL3-Apply</b> ) <b>CO4-</b> Evaluate the role of quality seed and their effect on farming society & seed											
	Skill Development ✓ Entrepreneurship ✓ Employability ✓		SDG2(Zero hunger) SDG3(Good health and well-being) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG15(Life on land)										

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



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

Title of the Course	Commercial Horticulture (Vegetable and Spices Crop Production)												
Course Code	ELP-HORT-401 [P]	LP-HORT-401 [P]											
	Remember) CO2- Explain the knowled Horticultural.(BL2-Unders CO3- Demonstrate variou CO4- Analyse the challen the possible practical solu	<ul> <li>CO1- Describe the importance and scope of vegetable and spices cultivation.(BL1-Remember)</li> <li>CO2- Explain the knowledge regarding various crop productions under commercial dorticultural.(BL2-Understand)</li> <li>CO3- Demonstrate various vegetable and spices crops.(BL3-Apply)</li> <li>CO4- Analyse the challenges of cultivation establishment and management along with the possible practical solutions.(BL4-Analyze)</li> <li>CO5- Evaluate the hybrid seed production of vegetables and spices. (BL5-Evaluate)</li> </ul>											
	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG5(Gender equality) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG12(Responsible consuption and production) 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	1	-	-	-	-	-	-	-	-	-	-	-	3	-
CO2	-	1	-	3	-	-	-	-	-	-	-	-	3	2	-
CO3	-	2	3	-	1	-	-	-	-	-	-	-	-	-	-
CO4	-	-	3	-	-	-	-	-	-	-	-	2	-	-	-
CO5	-	-	1	-	2	-	2	-	-	-	-	1	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Floriculture and landsca	ping	
Course Code	ELP-HORT-402 [P]		
	Remember) CO2- Explain the basic c CO3- Demonstrate varior CO4- Analyse the challer Analyze) CO5- Evaluate the role o industry(BL5-Evaluate)	concept of land us Software fo nges of value a f value additio layout by utiliz	pe Floriculture and Landscape designing( <b>BL1</b> - scape architecture( <b>BL2-Understand</b> ) r landscape architecture( <b>BL3-Apply</b> ) addition of commercial floriculture crops( <b>BL4</b> - n and essential oil extraction in floriculture ing Software and Create value added products
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG11(Sustainable cities and economies) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land)

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



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

Title of the Course	Commercial Nursery	Horti	cultural Crops						
Course Code	ELP-HORT-404 [P]								
Course Outcomes & Bloom's Level	Crops( <b>BL1-Remember</b> ) <b>CO2-</b> Explain the suitabilit crops( <b>BL2-Understand</b> ) <b>CO3-</b> Demonstrate variou <b>CO4-</b> Analyse the challen along with the possible pro-	<ul> <li>CO2- Explain the suitability of Multiplication methods in different horticultural props(BL2-Understand)</li> <li>CO3- Demonstrate various plant propagation techniques in the field(BL3-Apply)</li> <li>CO4- Analyse the challenges of commercial nursery establishment and management along with the possible practical solutions(BL4-Analyze)</li> <li>CO5- Evaluate the role of PGR and media in mass multiplication of horticultural</li> </ul>							
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land)						

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



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

Title of the Course	Organic Vegetable Produ	rganic Vegetable Production											
Course Code	ELP-HORT-406 [P]	_P-HORT-406 [P]											
& Bloom's Level	Remember) CO2- Explain the knowled productions (BL2-Unders CO3- Demonstrate various Apply) CO4- Analyse the challend along with the possible pra	lge regarding v t <b>and)</b> s vegetable cro ges of organic actical solution	e of organic vegetable cultivation. <b>(BL1-</b> various organic matters for vegetable ops under different organic contents. <b>(BL3-</b> cultivation, establishment and management s. <b>(BL4-Analyze)</b> vegetables under different organic contents.										
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG12(Responsible consuption and production) SDG13(Climate action)										

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



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

Title of the Course	Hydroponics		
Course Code	ELP-HORT-407 [P]		
	production technology for B CO2- CO-2. Explain the ba protected cultivation(BL2-U CO3- CO-3. Demonstrate Hydroponics(BL3-Apply) CO4- CO-4. Analyze the cl Hydroponics/protected cult CO5- CO-5. Evaluate the r Hydroponic cultivation of h CO6- CO-6. Create a mod	Exotic horticuli asic concept of <b>Jnderstand)</b> various techno hallenges of N tivation( <b>BL4-A</b> ole of AI techr orticultural cro el layout plan	nology and marketing strategies under
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG11(Sustainable cities and economies) SDG12(Responsible consuption and production) 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-
CO3	-	-	2	-	2	-	-	-	-	-	-	-	-	-	-
CO4	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Processing, Preservation	and Value Ad	dition in OMA Plants							
Course Code	ELP-HORT-408 [P]									
Course Outcomes & Bloom's Level	CO2- Acquire proficiency and extended shelf life.(B CO3- Apply value addition and market opportunities. CO4- Develop competence products(BL4-Analyze) CO5- Analyze market dyr	nd aromatic plants.(BL1-Remember) <b>CO2</b> - Acquire proficiency in preservation methods enabling effective quality assurance nd extended shelf life.(BL2-Understand) <b>CO3</b> - Apply value addition strategies enabling to capitalize on the diverse applications nd market opportunities.(BL3-Apply) <b>CO4</b> - Develop competence in accessing the quality of processed and preserved roducts(BL4-Analyze) <b>CO5</b> - Analyze market dynamics with respect to consumer preference.(BL5-Evaluate) <b>CO6</b> - Creation of preserve, processed and value-added products sustainably(BL6- <b>Create</b> ) <b>CO5</b> - SDG2(Zero hunger)								
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG12(Responsible consuption and production) 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
CO4	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-



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

Title of the Course	Multimedia and Graphic I	Designing & Pr	roduction of Information Materials						
Course Code	ELP-JMC-401 [P]								
	Remember) CO2- To understand the o Understand) CO3- Appling the differen (BL3-Apply) CO4- Analyze the differen and their use in multimedi	CO2- To understand the different types of sounds, editing and mixing in sound.(BL2- Inderstand)         CO3- Appling the different types of graphics in multimedia and various images format.         BL3-Apply)         CO4- Analyze the different video and animation in multimedia and different file format ind their use in multimedia.(BL4-Analyze)         CO5- Evaluation of multimedia application and multimedia in different industries.(BL5-type)         kill Development √							
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goale)	SDG4(Quality education) SDG5(Gender equality) SDG9(Industry Innovation and Infrastructure) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)						

-		-		-	-			-				-	-	-	
COs	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
CO4	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
CO5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Mushroom Cultivation Te	echnology							
Course Code	ELP-PP-401 [P]								
& Bloom's Level	Understand) CO3- Demonstrate the sp mushrooms(BL3-Apply) CO4- Explore various cul Analyze)	<ul> <li>O2- Explain the different types of mushrooms and their nutritional content(BL2-inderstand)</li> <li>O3- Demonstrate the spawn production and cultivation of various types of ushrooms(BL3-Apply)</li> <li>O4- Explore various cultivation methods, such as indoor and outdoor cultivation(BL4-inalyze)</li> <li>O5- Develop skills to identify and prevent contamination issues during mushroom ultivation(BL5-Evaluate)</li> </ul>							
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X		SDG2(Zero hunger) SDG3(Good health and well-being) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)						

COs	P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	3	3	1	1	2	3	1	2	-	1	1	1	-	-	2
CO4	3	3	1	1	-	-	1	-	-	1	1	1	-	1	-
CO5	3	3	-	-	-	-	-	-	-	-	-	-	-	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Plant Health Diagnosis ar	Plant Health Diagnosis and Management								
Course Code	ELP-PP-402 [P]									
Course Outcomes & Bloom's Level	weather parameters (BL2 CO3- Demonstrate the iso CO4- Analysing and explo Analyze) CO5- Evaluating the mana	<ul> <li>BL1-Remember)</li> <li>O2- Explain the identifications of different plant diseases and their relation to the eather parameters. (BL2-Understand)</li> <li>O3- Demonstrate the isolation of plant pathogen and Koch postulate. (BL3-Apply)</li> <li>O4- Analysing and exploring the different isolated pathogens from the field. (BL4-nalyze)</li> <li>O5- Evaluating the management practices of different pathogens using bio control gents, botanicals and chemical fungicides.(BL5-Evaluate)</li> </ul>								
Course Elements	Skill Development ✓ Entrepreneurship ✓ 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) SDG9(Industry Innovation and Infrastructure) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)							

COs	P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	1	1	-	-	-	-	-	-	-	3	-	-
CO2	-	2	3	2	2	1	-	-	-	-	-	-	-	3	-
CO3	3	-	2	2	2	2	-	-	-	-	-	-	-	1	2
CO4	-	1	-	1	-	-	-	-	-	-	1	1	1	-	-
CO5	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Title of the Course	Seed Pathology									
Course Code	ELP-PP-403 [P]	LP-PP-403 [P]								
Course Outcomes & Bloom's Level	and plant quarantine(BL1 CO2- Explain the importan Understand) CO3- Demonstrate the pro seed borne pathogens(BL CO4- Explore the various CO5- Develop skill for dete	<ul> <li>D3- Demonstrate the procedure for Isolation, identification and purification of different ed borne pathogens(BL3-Apply)</li> <li>D4- Explore the various methods of seed health testing methods(BL4-Analyze)</li> <li>D5- Develop skill for detection methods, estimation of storage losses and Integrated anagement practices for seed borne pathogens(BL5-Evaluate)</li> </ul>								
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X		SDG2(Zero hunger) SDG3(Good health and well-being) SDG9(Industry Innovation and Infrastructure) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)							

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



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

Title of the Course	Soil, Plant, Water and See	ed Testing						
Course Code	ELP-SS-401 [P]							
& Bloom's Loval	CO1- Students will acquire knowledge in the field of soil testing for crop and so improvement(BL1-Remember) CO2- Evaluation of various type of Soil Indexes seed diversity on the basis of morphology, Biochemical nature and reproductive behavior.(BL2-Understand CO3- Evaluate the challenges of commercial Seed production(BL3-Apply) CO4- Evaluate the role of quality soil, seed & water availability and their effect farming society 5(BL4-Analyze)							
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG9(Industry Innovation and Infrastructure) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land) SDG17(Partnerships for the goals)					

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



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

Title of the Course	Agribusiness and Industrial Management
Course Code	ELP- ABM-401 [P]
Course Outcomes & Bloom's Level	
Course Elements	SDG (Goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3



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

Title of the Course	Agricultural Heritage and Agritourism
Course Code	ELP- ABM-403 [P]
Course Outcomes & Bloom's Level	
Course Elements	SDG (Goals)

COs PO1 PO2 PO3	PO4 PO5	PO6 PO7	PO8 PO9	PO10 PO	011 PO12	PSO1 P	SO2 PSO3
					-	-	



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

Title of the Course	Agricultural waste management
Course Code	ELP- AGRON-401 [P]
Course Outcomes & Bloom's Level	
Course Elements	SDG (Goals)

**Course Articulation Matrix** 

COs PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1 PSO2 PSO3



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

Title of the Course	Commercial Beekeeping
Course Code	ELP- ENT-401 [P]
Course Outcomes & Bloom's Level	
Course Elements	SDG (Goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3



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

Title of the Course	Seed Production Technology
Course Code	ELP- GPB-401 [P]
Course Outcomes & Bloom's Level	
Course Elements	SDG (Goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3



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

Title of the Course	cessing of fruits and vegetables for value addition							
Course Code	ELP- HORT-403 [P]							
Course Outcomes & Bloom's Level								
Course Elements	SDG (Goals)							

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
							· • ·								



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

Title of the Course	Protected Cultivation of High value Horticulture Crops
Course Code	ELP- HORT-405 [P]
Course Outcomes & Bloom's Level	
Course Elements	SDG (Goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
							· • ·								



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

Title of the Course	Agri-based Software Design
Course Code	ELP-AENG-401 [P]
Course Outcomes & Bloom's Level	
Course Elements	SDG (Goals)

	COs PO1 PO2 PC	D3 PO4 PO5	PO6 PO7 PO8	PO9 PO10 PO11	PO12 PSO1 PSO2 PSO3
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## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Agriculture Kiosk and Rural Development
Course Code	ELP-AEXT-401 [P]
Course Outcomes & Bloom's Level	
Course Elements	SDG (Goals)

**Course Articulation Matrix** 

COs PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1 PSO2 PSO3



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

Title of the Course	Introduction to Indigenous Technical Knowledge
Course Code	ELP-AEXT-402 [P]
Course Outcomes & Bloom's Level	
Course Elements	SDG (Goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
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## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Organic Production Technology
Course Code	ELP-AGRON-402 [P]
Course Outcomes & Bloom's Level	
Course Elements	SDG (Goals)

**Course Articulation Matrix** 

COs PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1 PSO2 PSO3



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

Title of the Course	Commercial Crop Production Technology
Course Code	ELP-AGRON-403 [P]
Course Outcomes & Bloom's Level	
Course Elements	SDG (Goals)

**Course Articulation Matrix** 

COs PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1 PSO2 PSO3