B. Sc. (Hons) Agriculture

Semester wise Course Summary

Sem	Core	Common	Remedial	Non-	Elective	RAWE	ELP	Total
	courses	Courses	Courses	gradial Courses	Courses			
т.	177		2/5					2.4
I	17		3/5	4				24
II	19	2		3				24
III	19	5	-1					24
IV	21	1		1	3			25
V	19	2			3			24
VI	20				3			23
						•		•
VII						20		20
VIII							20	20
Total	115	9	3/5	8	9	20	20	184/
								186

B. Sc. (Hons) Agriculture Semester wise Course Lay Out (Proposed)

Semester-I

Course No.	Courses		Credit			
		T	P	Total		
A)	Core courses					
AGRO 111	Fundamentals of Agronomy-I	1	1	2		
AGRO 112	Introductory Agro-meteorology and Climate change	1	1	2		
AHDS 111	Livestock Production & Management	1	1	2		
EXTN 111	Rural Sociology & Educational Psychology	2	0	2		
HORT 111	Fundamentals of Horticulture	1	1	2		
LANG 111	LANG 111 Comprehension & Communication Skills in English		1	2		
MIBO 111	11 Introductory Microbiology		1	2		
SSAC 111	SSAC 111 Fundamentals of Soil Science		1	3		
	Total Core Courses		7	17		
B)	Remedial Courses (3 or 5 credit)			0		
AGH 111	Agricultural Heritage*1	1	0	1		
BIO 111	Introductory biology *2	1	1	2		
MATH 111	Elementary Mathematics *3	2	0	2		
	Sub total	3/4	0/1	3/5		
C)	Non-Gradial Courses (4 credits)			0		
HVE 111	Human Values & Ethics	1	0	1		
DEG 111	Democracy, Elections and Good Governance 1		0	1		
NCC 111/ NSS 111			1	1		
PHEY 111	Physical Education and Yoga	0	1	1		
	Sub total	2	2	4		
	Total Credits (A+B+C)	15/16	9/10	24/26		

* Remedial Courses (3/5 credit)

** Non-Gradial Courses (4 Credits)

^{*1} Compulsory to all students

^{*2} Students who have Biology in XII std are exempted

^{*3} Students who have MATH in XII std are exempted

^{**} NCC or NSS

Semester –II

Course No.	Courses		Credit		
		T	P	Total	
A)	Core Course				
AGRO-123	Fundamentals of Agronomy-II	1	1	2	
BOT 121	Fundamentals of Crop Physiology	1	1	2	
ECON 121	Fundamentals of Agricultural Economics	2	0	2	
ENGG 121	Soil and Water Conservation Engineering	1	1	2	
ENTO-121	Fundamentals of Entomology	1	1	2	
EXTN 122	Fundamentals of Agricultural Extension Education	2	1	3	
GPB 121	Fundamentals of Genetics	2	1	3	
PATH 121	Fundamentals of Plant Pathology		1	3	
	Total	12	7	19	
B)	Non-Gradial course				
FRST 121	Introduction to Forestry	1	1	2	
EDNT 121	Educational Tour*	0	1	1	
	Subtotal	1	2	3	
C)	Common Course				
EXTN 123	Communication Skills and personality Developments	1	1	2	
	Subtotal	1	1	2	
	Total Credits (A+B+C)	14	10	24	

^{*} Educational Tour shall be organized after completion of Sem.II and before start of Sem.III

Semester-III

Course No.	Courses		Credit		
		T	P	Total	
A)	Core Course				
AGRO 234	Crop Production Technology-I (Kharif crops)	1	1	2	
AGRO 235	Rainfed Agriculture and Watershed Management	1	1	2	
BIOCHM 231	Fundamentals of plant biochemistry and biotechnology	2	1	3	
ENGG 232	Farm Machinery and Power	1	1	2	
ENTO 232	Insect Ecology and Integrated pest Management	1	1	2	
GPB 232	Fundamentals of Plant Breeding	1	1	2	
HORT 232	Production Technology for Vegetables and Spices		1	2	
PATH 232	Principles of Integrated Disease Management		1	2	
STAT 231	Statistical Methods		1	2	
	Subtotal	10	9	19	
B)	Common Courses				
COMP 231	COMP 231 Agri- Informatics		1	2	
ESDM 231	ESDM 231 Environmental Studies and Disaster Management		1	3	
	Subtotal		2	5	
	Total Credits (A+B)	13	11	24	

Semester IV

Course No.	Courses		Credit			
			P	Total		
A)	Core Course					
AGRO 246	Crop Production Technology-II (Rabi crops)	1	1	2		
AGRO 247	Farming System and Sustainable Agriculture	1	0	1		
AGRO 248	Principles of Organic Farming	1	1	2		
AHDS 242	Livestock Breeding and Nutrition	1	1	2		
ECON 242	Agriculture Finance and Cooperation	2	1	3		
ENGG 243	Renewable Energy and Green Technology	1	1	2		
ENTO 243	Pest of Horticultural Crops and their	1	1	2		
	Management					
GPB 243	Principles of Seed Technology	1	2	3		
HORT 243	HORT 243 Production Technology for Fruit and		1	2		
	Plantation Crops					
SSAC 242	SSAC 242 Problematic Soils and their Management		1	2		
	Subtotal		10	21		
B)	Elective Courses (3 credits)					
ELE BOT 242	Micropropogation Technologies	1	2	3		
ELE EXTN 244	Agricultural Journalism	2	1	3		
ELE GPB 244	Commercial Plant breeding	1	2	3		
ELE PATH 243	Bio-fertilizers, Bio-control Agents and Bio-	2	1	3		
	pesticides					
	Subtotal Elective	1	2	3		
C)	Non-Gradial Course					
EDNT 242	Study Tour*	0	1	1		
	Total Credits (A+B+C)	12	13	25		

^{*} Educational Tour shall be organized after completion of Sem.IV and before start of Sem.V

Semester V

Course No.	Courses		Credit			
		T	P	Total		
A)	Core Course					
AGRO 359	Practical Crop Production-I (Kharif crops)	0	1	1		
AHDS 353	Technology of Milk and Milk Products.		1	2		
BOT 353	Intellectual Property Right	1	0	1		
ECON 353	Agricultural Marketing Trade and Prices	2	1	3		
ENTO 354	Pests of Crops and Stored Grain and their Management- I	1	1	2		
GPB 355	Crop Improvement – I (Kharif Crops)	1	1	2		
HORT 354	Production Technology for Ornamental Crops, MAP and Landscaping		1	2		
PATH 354	Diseases of Field and Horticultural Crops and their Management	2	1	3		
SSAC 353 Manures, Fertilizers and Soil Fertility Management		2	1	3		
	Subtotal	11	8	19		
B)	Common Courses					
EXTN 355	Entrepreneurship Development and Business Communication	1	1	2		
	Subtotal	1	1	2		
C)	Elective Course (3 credits)					
AGRO 3510	Weed Management	2	1	3		
ELE ECON 354	N 354 Agribusiness Management		1	3		
ELE FST 351	Food Safety and Standards		1	3		
ELE HORT 355	Protected Cultivation of Horticultural Crops	2	1	3		
	Subtotal	2	1	3		
	Total (A+B+C)	14	10	24		

Semester VI

Course No.	Courses		Credit		
			P	Total	
A)	Core Course				
AGRO 3611	Practical Crop Production-II (Rabi crops)	0	1	1	
AGRO 3612	Geo-informatics and Nano-technology and Precision Farming	1	1	2	
AHDS 364	Sheep Goat and Poultry Production	1	1	2	
ECON 365	Farm Management, Production and Resource Economics	1	1	2	
ENGG 364	Protected Cultivation and secondary Agriculture	1	1	2	
ENTO 365	Management of Beneficial Insects	1	1	2	
FST 362	Principles of Food Science and Nutrition		0	2	
GPB 366	Crop Improvement – II (Rabi crops)	1	1	2	
HORT 366	Post-harvest Management and Value Addition of Fruits and Vegetables		1	2	
PATH 365	PATH 365 Diseases of Field and Horticultural Crops and their Management-II		1	3	
	Subtotal	11	9	20	
B)	Elective courses				
ELE AGM 361	System Stimulation and Agro-advisory	2	1	3	
ELE HORT 368	Hi tech Horticulture		1	3	
ELE HORTI 367	Landscaping		1	3	
ELE SSAC 364	LE SSAC 364 Agrochemicals		1	3	
	Subtotal	2	1	3	
	Total (A+B)	13	10	23	

Semester VII

Student READY Programme

(Rural and Entrepreneurship Awareness Development Yojana)

RAWE & AIA Programme

Rural Agricultural Work Experience and Agro-Industrial Attachment

Sr. No.	Activities	Number of weeks	Credits	
1	General orientation and on campus training by different faculties	1	14	
2	Village attachment/ Unit attachment in Univ./ College. KVK/ Research Station	8		
3	Agro-Industrial Attachment	10	06	
4	Project Report Preparation, Presentation and Evaluation	1		
	Total weeks for RAWE and AIA 20			

• **Agro- Industrial Attachment:** The students would be attached with the agro-industries for a period of 10 weeks to get an experience of the industrial environment and working.

Semester VIII

Experiential Learning Modules

Sr. No.	Course No.	Credits	Course Title
1	ELM AGRO 4813	10(0+10)	Organic Farming Production Technology
2	ELM AGRO 4814	10(0+10)	Commercial production of organic inputs
3	ELM AHDS 485	10(0+10)	Poultry production
4	ELM AHDS 486	10(0+10)	Processing of Milk and Milk Product
5	ELM BOT 481	10(0+10)	Seed Production and Technology
6	ELM BOT 484	10(0+10)	Tissue Culture Techniques
7	ELM ENGG 485	10(0+10)	Natural Resources Management
8	ELM ENTO 486	10(0+10)	Mass Production of Bio-agents and Bio- pesticides
9	ELM ENTO 487	10(0+10)	Commercial Beekeeping
10	ELM ENTO 488	10(0+10)	Silkworm cocoon production technology
11	ELM HORT 489	10(0+10)	Commercial Horticulture
12	ELM HORT 4810	10(0+10)	Floriculture and Landscaping Gardening
13	ELM HORT 4811	10(0+10)	Nursery Management of Horticultural Crops
14	ELM HORT 4812	10(0+10)	Commercial Vegetable Production
15	ELM HORT 4813	10(0+10)	Protected Cultivation of Flowers and Vegetables
16	ELM HORT 4814	10(0+10)	Post-harvest Management and Valise Additions of Horticultural Crops
17	ELM PATH 486	10(0+10)	Mushroom Cultivation Technology
		, , ,	
18	ELM PATH 487/ ELM SSAC 487	10(0+10)	Biofertilizer Production Technology
19	ELM SSAC 485	10(0+10)	Soil, Water, Plant and Fertilizer Analysis
20	ELM SSAC 486	10(0+10)	Agricultural Waste Management
21	ELM FST 483	10(0+10)	Food Processing

This program will be undertaken by the students preferably during the eighth semester for a total duration of 24 weeks with a weightage of 0+20 credit hours. The students will register for any of two modules, listed as above, of 0+10 credit hours each.