B.Sc. (Honours) Agriculture (2018-2022 Batch)

Semester- I

Subject Code	Subject Name	Periods			Evaluation Scheme					Credit	Hours
		L	P	C	Assignment	Mid term	Practical (5 Marks Written , 5 Marks Viva voce , 5 Marks Class participation)	ESE	Subject Total		
13A.101	Fundamentals of Horticulture	1	0	1	5	30	15	50	100	1	1
13A.106	Fundamentals of Plant Biochemistry and Biotechnology	2	0	2	5	30	15	50	100	2	2
13A.107	Introduction to Soil Science	2	0	2	5	30	15	50	100	2	2
13A.108	Introduction to Forestry	1	0	1	5	30	15	50	100	1	1
40B.102	Comprehension & Communication skills in English	1	0	1	5	30	15	50	100	1	1
13A.109	Fundamentals of Agronomy	3	0	3	5	30	15	50	100	3	3
13A.110	Introductory Biology*	1	0	1	5	30	15	50	100	1	1
13A.111	Elementary Mathematics*	2	0	2	10	40		50	100	2	2
13A.112	Agriculture Heritage*	1	0	1	10	40		50	100	1	1
13A.113	Rural Sociology & Educational Psychology	2	0	2	10	40		50	100	2	2
40B.103	Human Values & Ethics**	1	0	0	10	40		50	100	0	1
	PRACTICAL										
13AP.101	Fundamentals of Horticulture (Lab.)	0	2	1						1	2
13AP.106	Fundamentals of Plant Biochemistry and Biotechnology (Lab)	0	2	1						1	2
13AP.107	Introduction to Soil Science (Lab.)	0	2	1						1	2
13AP.108	Introduction to Forestry (Lab.)	0	2	1						1	2
40BP.102	Comprehension & Communication Skills in English (Lab.)	0	2	1						1	2
13AP.109	Fundamentals of Agronomy (Lab.)	0	2	1						1	2
13AP.110	Introductory Biology* (Lab.)	0	2	1						1	2
13AP.117	NSS/ Physical Education & Yoga Practices**	0	4	0						0	4
	Total	23 (18 +5)						Total	1100	23	35

· *Remedial courses **NC : Non-credit courses

Semester II

Sub Code	Subject Name	L	P	C	Evaluation Scheme					Credit	Hours
					Assignment	Mid term	Practical (5 Marks Written , 5 Marks Viva voce , 5 Marks Class participation)	ESE	Subject Total		
13A.151	Fundamentals of Genetics	2	0	2	5	30	15	50	100	2	2
13A.152	Agricultural Microbiology	1	0	1	5	30	15	50	100	1	1
13A.153	Soil and Water Conservation Engineering	1	0	1	5	30	15	50	100	1	1
13A.154	Fundamentals of Crop Physiology	1	0	1	5	30	15	50	100	1	1
13A.155	Fundamentals of Agricultural Economics	2	0	2	10	40		50	100	2	2
13A.156	Fundamentals of Plant Pathology	3	0	3	5	30	15	50	100	3	3
13A.157	Fundamentals of Agricultural Extension Education	2	0	2	5	30	15	50	100	2	2
13A.158	Fundamentals of Entomology	3	0	3	5	30	15	50	100	3	3
40B.152	Communication skills and personality Development	1	0	1	5	30	15	50	100	1	1
	PRACTICAL										
13AP.151	Fundamentals of Genetics (Lab.)	0	2	1						1	2
13AP.152	Agricultural Microbiology (Lab.)	0	2	1						1	2
13AP.153	Soil and Water Conservation Engineering (Lab.)	0	2	1						1	2
13AP.154	Fundamentals of Crop Physiology (Lab.)	0	2	1						1	2
13A P.156	Fundamentals of Plant Pathology (Lab.)	0	2	1						1	2
13AP.158	Fundamentals of Entomology (Lab.)	0	2	1						1	2
13AP.157	Fundamentals of Agricultural Extension Education (Lab.)	0	2	1						1	2
40BP.152	Communication Skills and Personality Development (Lab.)	0	2	1						1	2
13AP.117	NSS/ Physical Education & Yoga Practices**	0	4	0						0	4
	Total	24(16+8)						Total	900	24	36

Semester III

Sub Code	Subject Name	Credit			Evaluation Scheme					Credit	Hours
		L	P	C	Assignment	Mid term	Practical (5 Marks Written , 5 Marks Viva voce , 5 Marks Class participation)	ESE	Subject Total		
13A.208	Crop Production Technology – I *(Kharif Crops)*	1	0	1	5	30	15	50	100	1	1
13A.209	Fundamentals of Plant Breeding	2	0	2	5	30	15	50	100	2	2
13A.210	Agricultural Finance and Cooperation	2	0	2	5	30	15	50	100	2	2
13A.211	Agri- Informatics	1	0	1	5	30	15	50	100	1	1
13A.212	Farm Machinery and Power	1	0	1	5	30	15	50	100	1	1
13A.213	Production Technology for Vegetables and Spices	1	0	1	5	30	15	50	100	1	1
13A.214	Environmental Studies and Disaster Management	2	0	2	5	30	15	50	100	2	2
13A.215	Statistical Methods	1	0	1	5	30	15	50	100	1	1
13A.216	Livestock and Poultry Management	3	0	3	5	30	15	50	100	3	3
	PRACTICAL										
13AP.208	Crop Production Technology – I *(Kharif Crops)* (Lab.)	0	2	1						1	2
13AP.209	Fundamentals of Plant Breeding (Lab.)	0	2	1						1	2
13AP.210	Agricultural Finance and Cooperation (Lab.)	0	2	1						1	2
13AP.211	Agri- Informatics (Lab.)	0	2	1						1	2
13AP.212	Farm Machinery and Power (Lab.)	0	2	1						1	2
13AP.213	Production Technology for Vegetables and Spices (Lab.)	0	2	1						1	2
13AP.214	Environmental Studies and Disaster Management (Lab.)	0	2	1						1	2
13AP.215	Statistical Methods	0	2	1						1	2
13AP.216	Livestock and Poultry Management (Lab.)	0	2	1						1	2
13AP.117	NSS**	0	4	0						0	4
	Total	23(14+9)						Total	900	23	36

Semester IV

		Credit			Evaluation Scheme						
Sub Code	**Subject Name**	**L**	**P**	**C**	**Assign ment**	**Mid term**	**Practical (5 Marks Written , 5 Marks Viva voce , 5 Marks Class participation)**	**ESE**	**Subject Total**	**Credit**	**Hours**
13A.258	Crop Production Technology –II *(Rabi Crops)*	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.259	Production Technology for Ornamental Crops, MAP and Landscaping	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.260	Renewable Energy and Green Technology	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.261	Problematic Soils and their Management	**2**	**0**	**2**	**10**	**40**		**50**	**100**	**2**	**2**
13A.262	Production Technology for Fruit and Plantation Crops	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.263	Principles of Seed Technology	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.264	Farming System & Sustainable Agriculture	**1**	**0**	**1**	**10**	**40**		**50**	**100**	**1**	**1**
13A.265	Agricultural Marketing Trade & Prices	**2**	**0**	**2**	**5**	**30**	**15**	**50**	**100**	**2**	**2**
13A.266	Introductory Agro-meteorology & Climate Change	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.271	Elective Courses	**3 Credits**									
	Agrochemicals										
	Bio-pesticides& Bio-fertilizers										
	Weed Management				**5**	**30**	**15**	**50**	**100**		
	PRACTICAL										
13AP.258	Crop Production Technology –II (Rabi Crops) (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.259	Production Technology for Ornamental Crops, MAP and Landscaping (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.260	Renewable Energy and Green Technology (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.262	Production Technology for Fruit and Plantation Crops (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.263	Principles of Seed Technology (Lab.)	**0**	**4**	**2**						**2**	**4**
13AP.265	Agricultural Marketing Trade & Prices (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.266	Introductory Agro-meteorology & Climate Change (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.117	NSS**	**0**	**4**	**0**						**0**	**4**
	Total	**19(11+8)+3 credit**						**Total**	**1000**	**19**	**31**

Educational tour will be conducted in break between IV & V semester or VI & VII semester** (0+2)

Semester V											
		Credit			Evaluation Scheme						
Sub Code	**Subject Name**	**L**	**P**	**C**	**Assign ment**	**Mid term**	**Practical (5 Marks Written , 5 Marks Viva voce , 5 Marks Class participation)**	**ESE**	**Subject Total**	**Credit**	**Hours**
13A.311	Principles of Integrated Pest and Disease Management	**2**	**0**	**2**	**5**	**30**	**15**	**50**	**100**	**2**	**2**
13A.312	Manures, Fertilizers and Soil Fertility Management	**2**	**0**	**2**	**5**	**30**	**15**	**50**	**100**	**2**	**2**
13A.313	Pests of Crops and Stored Grain and their Management	**2**	**0**	**2**	**5**	**30**	**15**	**50**	**100**	**2**	**2**
13A.314	Diseases of Field and Horticultural Crops and their Management -I	**2**	**0**	**2**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.315	Crop Improvement-I *(Kharif Crops)*	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
40B.316	Entrepreneurship Development and Business Communication	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.316	Geoinformatics and Nano-technology and Precision Farming	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.317	Intellectual Property Rights	**1**	**0**	**1**	**10**	**40**		**50**	**100**		
13A.321	Elective Course II	**3 credit**									
	Agribusiness Management				**5**	**30**	**15**	**50**	**100**		
	Agricultural Journalism										
	Protected Cultivation										
	PRACTICAL										
13AP.311	Principles of Integrated Pest and Disease Management (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.312	Manures, Fertilizers and Soil Fertility Management (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.313	Pests of Crops and Stored Grain and their Management (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.314	Diseases of Field and Horticultural Crops and their Management –I (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.315	Crop Improvement-I *(Kharif Crops)* (Lab.)	**0**	**2**	**1**						**1**	**2**
40BP.316	Entrepreneurship Development and Business Communication	**0**	**2**	**1**						**1**	**2**
13AP.316	Geoinformatics and Nano-technology and Precision Farming (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.318	Practical Crop Production – I (*Kharif* crops) (Lab.)	**0**	**4**	**2**	**5**		**95**		**100**	**2**	**4**
	Total	**21(12+9)+3 credit**						**Total**	**1000**	**19**	**28**

Semester VI					Evaluation Scheme						
Sub Code	**Subject Name**	**Credit**			**Assign ment**	**Mid term**	**Practical (5 Marks Written , 5 Marks Viva voce , 5 Marks Class participation)**	**ESE**	**Subject Total**	**Credit**	**Hours**
13A.359	Rainfed Agriculture & Watershed Management	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.360	Principles of Food Science and Nutrition	**2**	**0**	**2**	**10**	**40**		**50**	**100**	**2**	**2**
13A.361	Diseases of Field and Horticultural Crops and their Management-II	**2**	**0**	**2**	**5**	**30**	**15**	**50**	**100**	**2**	**2**
13A.362	Post-harvest Management and Value Addition of Fruits and Vegetables	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.363	Management of Beneficial Insects	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.364	Crop Improvement-II *(Rabi crops)*	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.365	Principles of Organic Farming	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.366	Farm Management, Production & Resource Economics	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.367	Protected Cultivation and Secondary Agriculture	**1**	**0**	**1**	**5**	**30**	**15**	**50**	**100**	**1**	**1**
13A.371	Elective III	**3 credits**									
	Landscaping				**5**	**30**	**15**	**50**	**100**		
	Micro-propagation Technologies										
	Hi-tech Horticulture										
	PRACTICAL										
13AP.359	Rain-fed Agriculture & Watershed Management (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.360	Protected Cultivation and Secondary Agriculture (Lab.)	**0**	**2**	**1**						**1**	**2**

13AP.361	Diseases of Field and Horticultural Crops and their Management-II (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.362	Post-harvest Management and Value Addition of Fruits and Vegetables (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.363	Management of Beneficial Insects (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.364	Crop Improvement-II *(Rabi crops)* (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.365	Principles of Organic Farming (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.366	Farm Management, Production & Resource Economics (Lab.)	**0**	**2**	**1**						**1**	**2**
13AP.368	Practical Crop Production –II (*Rabi* crops) (Lab.)	**0**	**4**	**2**	**5**		**95**		**100**	**2**	**4**
	Total	**21(11+10)+3 credit**						**Total**	**1100**	**21**	**31**

Semester VII (Experiential Learning Programme/ HOT)		
Sub Code	**Module**	**CreditHr.**
13AP.421	1. Module-I	**0+10**
13AP.422	2. Module-II	**0+10**
	Total	**20 (0+20)**

Evaluation Scheme

Internal Exam	**700**
External Exam	**100**
Total	**800**

Modules for Skill Development and Entrepreneurship: A student has to register 20 credits opting for two Modules of (0+10) credits each (total 20 credits) from the package of modules in the VII semester.

Sr.	**Title of the module**	**Credits**
1.	Production Technology for Bioagents and Biofertilizer	**0+10**
2.	Seed Production and Technology	**0+10**
3.	Mushroom Cultivation Technology	**0+10**
4.	Soil, plant , water and seed Testing	**0+10**
5.	Commercial Beekeeping	**0+10**
6.	Poultry Production Technology	**0+10**
7.	Commercial Horticulture	**0+10**
8.	Floriculture and Landscaping	**0+10**
9.	Food Processing	**0+10**
10.	Agriculture Waste Management	**0+10**
11.	Organic Production Technology	**0+10**
12.	Commercial Sericulture	**0+10**

	Semester VIII			
SN.	**Rural Agricultural Work Experience and Agro-industrial Attachment (RAWE &AIA)**			
	Sub Code	**Sub Code**	**No. of weeks**	**Credit Hours**
1	General orientation & On campus training by different faculties	**13AP.495**	**1**	**14**
	Village attachment/		**8**	
	Unit attachment in Univ./ College. KVK/ Research station attachment		**5**	
2	Plant clinic		**2**	**2**
3	Agro-Industrial Attachment		**3**	**4**
	Project Report Preparation, Presentation and Evaluation		**1**	
	Total weeks for RAWE & AIA		**20**	**20**

Evaluation Scheme

Internal Exam	**600**
External Exam	**200**
Total	**800**

Agro- Industrial Attachment: The students would be attached with the agro-industries for a period of 3 weeks to get an experience of the industrial environment and working**.**

RAWE Component-I

Village Attachment Training Programme

Sl. No.	**Activity**	**Duration**
1	Orientation and Survey of Village	**1 week**
2	Agronomical Interventions	**1 week**
3	Plant Protection Interventions	**1 week**
4	Soil Improvement Interventions (Soil sampling and testing)	**1 week**
5	Fruit and Vegetable production interventions	**1 week**
6	Food processing and storage interventions	**1 week**
7	Animal Production Interventions	**1 week**
8	Extension and Transfer of Technology activities	**1 week**

RAWE Component –II

Agro Industrial Attachment

- Students shall be placed in Agro-and Cottage industries and Commodities Boards for 03 weeks.
- Industries include Seed / Sapling production, Pesticides-insecticides, Post harvest-processing-value addition, Agri-financ

Activities and Tasks during Agro-Industrial Attachment Programme

- Acquaintance with industry and staff
- Study of structure, functioning, objective and mandates of the industry
- Study of various processing units and hands-on trainings under supervision of industry staff
- Ethics of industry
- Employment generated by the industry
- Contribution of the industry promoting environment
- Learning business network including outlets of the industry
- Skill development in all crucial tasks of the industry
- Documentation of the activities and task performed by the students
- Performance evaluation, appraisal and ranking of students