

GURU KASHI UNIVERSITY										
University College of Agriculture (Code:5)										
B. Sc. AGRICULTURE (HONS) -6 Year (Code: 502)						Batch: 2017 Onwards				
Study Scheme										
Semester: 1st										
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks
				L	T	P				
1	A502101	Punjabi (Folk Literature, Applied Grammar and Composition) * OR	T	3	0	0	3	50	50	100
	A502103	Hindi (Folk Literature, Applied Grammar and Composition) *								
2	A502105	English(General Reading, Vocabulary Building and Translation)	T	3	0	0	3	50	50	100
3	A502107	Botany I	T	3	0	0	3	50	50	100
	A502109	Chemistry –I	T	3	0	0	3	50	50	100
4	A502111	Mathematics-I	T	4	0	0	4	50	50	100
5	A502108	Lab-Botany I	P	0	0	2	1	60	40	100
	A502110	Lab-Chemistry –I	P	0	0	2	1	60	40	100
6	A502113	NSS/NSO/Physical Education-I	P	0	0	2	1 (NC)			
Total No. of Credits							18+1 (NC)			

* Note: -Out of A502101 and A502103 one will be Selected .

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University College of Agriculture (Code:5)										
B. Sc. AGRICULTURE (HONS) -6 Year (Code: 502)						Batch: 2017 Onwards				
Study Scheme										
Semester: 2nd										
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks
				L	T	P				
1	A502201	English(Reading, Comprehension, Paragraph Writing and Applied Grammar)	T	3	0	0	3	50	50	100
2	A502203	Chemistry – II	T	3	0	0	3	50	50	100
3	A502205	Mathematics-II	T	4	0	0	4	50	50	100
4	A502207	Zoology-I	T	3	0	0	3	50	50	100
5	A502209	Agronomy-I	T	2	0	0	2	50	50	100
6	A502204	Lab-Chemistry – II	P	0	0	2	1	60	40	100
7	A502208	Lab-Zoology I	P	0	0	2	1	60	40	100
8	A502210	Lab-Agronomy-I	P	0	0	2	1	60	40	100
9	A502211	NSS/NSO/Physical Education-II	P	0	0	2	1(NC)			
Total No. of Credits							18+1(NC)			
Semester: 3rd										
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks
				L	T	P				
1	A502301	English(General Reading , Perfect Writing and Fluent Vocabulary)	T	3	0	0	2	50	50	100
2	A502303	Physics-I	T	3	0	0	3	50	50	100
3	A502305	Zoology-II	T	3	0	0	3	50	50	100
4	A502307	Plant Protection-I	T	1	0	0	1	50	50	100
5	A502309	Horticulture	T	2	0	0	2	50	50	100
6	A502311	Soils	T	1	0	0	1	50	50	100
7	A502304	Lab-Physics-I	P	0	0	2	1	60	40	100
8	A502306	Lab-Zoology-II	P	0	0	2	1	60	40	100
9	A502308	Lab-Plant Protection-I	P	0	0	2	1	60	40	100
10	A502310	Lab-Horticulture	P	0	0	2	1	60	40	100
11	A502312	Lab-Soils	P	0	0	2	1	60	40	100
12	A502313	Lab-Practical Field Training-I	P	0	0	2	1	60	40	100
13	A502314	NSS/NSO/Physical Education-III	P	0	0	2	1(NC)			
Total No. of Credits							19+1 (NC)			

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Study Scheme										
Semester: 4th										
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks
				L	T	P				
1	A502401	Punjabi Culture, Modern Literature, Applied Grammar and Composition OR	T	3	0	0	3	50	50	100
	A502403	Hindi Culture, Modern Literature, Applied Grammar and Composition								
2	A502405	Comprehension and Communication Skills in English	T	2	0	0	2	50	50	100
3	A502407	Botany-II	T	3	0	0	3	50	50	100
	A502409	Physics-II	T	3	0	0	3	50	50	100
4	A502411	Animal Science-I	T	1	0	0	1	50	50	100
5	A502406	Lab- Comprehension and Communication Skills in English	P	0	0	2	1	60	40	100
	A502408	Lab-Botany-II	P	0	0	2	1	60	40	100
6	A502410	Lab-Physics-II	P	0	0	2	1	60	40	100
7	A502412	Lab-Animal Science-I	P	0	0	2	1	60	40	100
	A502413	Lab-Practical Field Training-II	P	0	0	2	1	60	40	100
8	A502414	NSS/NSO/Physical Education-IV	P	0	0	2	1 (NC)			
Total No. of Credits							17+1(NC)			

* Note: -Out of A502401 and A502403 one will be Selected .

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Study Scheme										
Semester: 5th										
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks
				L	T	P				
1	A502501	Introductory Agriculture	T	1	0	0	1	50	50	100
2	A502502	Principles of Agronomy and Agricultural Meteorology	T	2	0	0	2	50	50	100
3	A502504	Principles of Genetics	T	2	0	0	2	50	50	100
4	A502506	Fundamentals of Soil Science	T	2	0	0	2	50	50	100
5	A502508	Fundamentals of Soil Water Conservation and Engineering	T	2	0	0	2	50	50	100
6	A502510	Plant Pathogens and Principles of Plant Pathology	T	2	0	0	2	50	50	100
7	A502512	Fundamentals of Computer Applications	T	1	0	0	1	50	50	100
8	A502514	Comprehension and Communication Skills in English	T	2	0	0	2	50	50	100
9	A502503	Lab. -Principles of Agronomy and Agricultural Meteorology	P	0	0	2	1	60	40	100
10	A502505	Lab. - Principles of Genetics	P	0	0	2	1	60	40	100
11	A502507	Lab. - Fundamentals of Soil Science	P	0	0	2	1	60	40	100
12	A502509	Lab. - Fundamentals of Soil Water Conservation and Engineering	P	0	0	2	1	60	40	100
13	A502511	Lab. - Plant Pathogens and Principles of Plant Pathology	P	0	0	2	1	60	40	100
14	A502513	Lab. - Fundamentals of Computer Applications	P	0	0	2	1	60	40	100
Total No. of Credits							20			

Semester: 6th										
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks
				L	T	P				
1	A502601	Water Management Including Micro Irrigation	T	1	0	0	1	50	50	100
2	A502603	Principles of Seed Technology	T	2	0	0	2	50	50	100
3	A502605	Soil Chemistry, Soil Fertility and Nutrient Management	T	2	0	0	2	50	50	100
4	A502607	Fundamentals of Nematology	T	1	0	0	1	50	50	100
5	A502609	Agricultural Microbiology	T	2	0	0	2	50	50	100
6	A502611	Principles of Agricultural Economics	T	2	0	0	2	50	50	100
7	A502612	Dimensions of Agricultural Extension	T	2	0	0	2	50	50	100
8	A502602	Lab. Water Management Including Micro Irrigation	P	0	0	2	1	60	40	100
9	A502604	Lab. -Principles of Seed Technology	P	0	0	2	1	60	40	100
10	A502606	Lab- Soil Chemistry, Soil Fertility and Nutrient Management	P	0	0	2	1	60	40	100
11	A502608	Lab- Fundamentals of Nematology	P	0	0	2	1	60	40	100
12	A502610	Lab -Agricultural Microbiology	P	0	0	2	1	60	40	100
13	A502613	Lab. - Information Technology	P	0	0	2	1	60	40	100
Total No. of Credits							18			

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Study Scheme											
Semester: 7th											
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks	
				L	T	P					
1	A502701	Field Crops (<i>Kharif</i>)	T	2	0	0	2	50	50	100	
2	A502703	Principles of Plant Breeding	T	2	0	0	2	50	50	100	
3	A502705	Morphology and Systematics of Insect	T	2	0	0	2	50	50	100	
4	A502707	Farm Power and Machinery	T	2	0	0	2	50	50	100	
5	A502709	Production Technology of Vegetables & Flowers	T	2	0	0	2	50	50	100	
6	A502711	Crop Physiology	T	2	0	0	2	50	50	100	
7	A502713	Livestock Production and Management	T	2	0	0	2	50	50	100	
8	A502715	Agricultural Finance and Co-operation	T	2	0	0	2	50	50	100	
9	A502702	Lab - Field Crops (<i>Kharif</i>)	P	0	0	2	1	60	40	100	
10	A502704	Lab. –Principles of Plant Breeding	P	0	0	2	1	60	40	100	
11	A502706	Lab. –Morphology and Systematics of Insect	P	0	0	2	1	60	40	100	
12	A502708	Lab. –Farm Power and Machinery	P	0	0	2	1	60	40	100	
13	A502710	Lab. –Production Technology of Vegetables & Flowers	P	0	0	2	1	60	40	100	
14	A502712	Lab. –Crop Physiology	P	0	0	2	1	60	40	100	
15	A502714	Lab. –Livestock Production and Management	P	0	0	2	1	60	40	100	
Total No. of Credits							23				

Semester: 8th											
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks	
				L	T	P					
1	A502801	Field crops-II (Rabi)	T	2	0	0	2	50	50	100	
2	A502803	Breeding of Field / Horticultural crops	T	2	0	0	2	50	50	100	
3	A502805	Manures, Fertilizers and Agrochemicals	T	2	0	0	2	50	50	100	
4	A502807	Insect Ecology & Integrated Pest Management Including Beneficial Insects	T	2	0	0	2	50	50	100	
5	A502809	Agricultural Marketing, Trade and Prices	T	1	0	0	1	50	50	100	
6	A502811	Protected Cultivation and Post Harvest Technology	T	1	0	0	1	50	50	100	
7	A502813	Diseases of Field Crops and Their Management	T	2	0	0	2	50	50	100	
8	A502815	Production Technology of Fruit Crops	T	2	0	0	2	50	50	100	
9	A502802	Lab- Field crops-II (Rabi)	P	0	0	2	1	60	40	100	
10	A502804	Lab. –II Breeding of Field / Horticultural Crops	P	0	0	2	1	60	40	100	
11	A502806	Lab. –III Manures, Fertilizers and Agrochemicals	P	0	0	2	1	60	40	100	
12	A502808	Lab. –IV Insect Ecology & Integrated Pest Management Including Beneficial Insects	P	0	0	2	1	60	40	100	
13	A502810	Lab. –V Agricultural Marketing, Trade and Prices	P	0	0	2	1	60	40	100	
14	A502812	Lab. –V Protected Cultivation and Post Harvest Technology	P	0	0	2	1	60	40	100	
15	A502814	Lab. –VI Diseases of Field Crops and Their Management	P	0	0	2	1	60	40	100	
16	A502816	Lab. -VII Production Technology of Fruit Crops	P	0	0	2	1	60	40	100	
Total No. of Credits							22				

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Study Scheme										
Semester: 9th										
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks
				L	T	P				
1	A502901	Principles of Plant Biotechnology	T	2	0	0	2	50	50	100
2	A502903	Crop Pests and Stored Grain Pests and Their Management	T	2	0	0	2	50	50	100
3	A502905	Fundamentals of Agribusiness Management	T	2	0	0	2	50	50	100
4	A502907	Disease of Horticultural Crops and Their Management	T	2	0	0	2	50	50	100
5	A502909	Post Harvest Management and Value Addition of Fruits and Vegetables	T	1	0	0	1	50	50	100
6	A502911	Production Technology of Spices, Aromatics Medicinal and Plantation crops	T	1	0	0	1	50	50	100
7	A502913	Fundamentals of Rural Sociology and Educational Psychology	T	2	0	0	2	50	50	100
8	A502914	Statistics	T	2	0	0	2	50	50	100
9	A502902	Lab. –Principles of Plant Biotechnology	P	0	0	2	1	60	40	100
10	A502904	Lab. –Crop Pests and Stored Grain Pests and Their Management	P	0	0	2	1	60	40	100
11	A502906	Lab. –Fundamentals of Agribusiness Management	P	0	0	2	1	60	40	100
12	A502908	Lab. –Disease of Horticultural Crops and Their Management	P	0	0	2	1	60	40	100
13	A502910	Lab. –Post Harvest Management and Value Addition of Fruits and Vegetables	P	0	0	2	1	60	40	100
14	A502912	Lab. –Production Technology of Spices, Aromatics Medicinal and Plantation Crops	P	0	0	2	1	60	40	100
15	A502915	Lab. –Crop production (Kharif)	P	0	0	4	2	60	40	100
Total No. of Credits							22			

Semester: 10th										
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks
				L	T	P				
1	A5021001	Weed Management	T	2	0	0	2	50	50	100
2	A5021003	Production Economics & Farm Management	T	2	0	0	2	50	50	100
3	A5021005	Renewable Energy	T	1	0	0	1	50	50	100
4	A5021007	Extension Methodologies for Transfer of Agricultural Technology	T	2	0	0	2	50	50	100
5	A5021009	Entrepreneurship Development and Communication Skill	T	1	0	0	1	50	50	100
6	A5021011	Biochemistry	T	2	0	0	2	50	50	100
7	A5021013	Environmental Science	T	2	0	0	2	50	50	100
8	A5021014	Organic Farming	T	1	0	0	1	50	50	100
9	A5021002	Lab- Weed Management	P	0	0	2	1	60	40	100
10	A5021004	Lab - Production Economics & Farm Management	P	0	0	2	1	60	40	100
11	A5021006	Lab- Renewable Energy	P	0	0	2	1	60	40	100
12	A5021008	Lab- Extension Methodologies for Transfer of Agricultural Technology	P	0	0	2	1	60	40	100
13	A5021010	Lab- Entrepreneurship Development and Communication Skill	P	0	0	2	1	60	40	100
14	A5021012	Lab- Biochemistry	P	0	0	2	1	60	40	100
15	A5021015	Lab. –Crop Production (Rabi)	P	0	0	4	2	60	40	100
Total No. of Credits							21			

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Study Scheme										
Semester: 11th (Group-I Crop Production)										
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks
				L	T	P				
1	A5021101	Seed Production Technology	T	2	0	0	2	50	50	100
2	A5021103	Integrated Farming System and Sustainable Agriculture	T	2	0	0	2	50	50	100
3	A5021105	Production of Commercial Crops	T	2	0	0	2	50	50	100
4	A5021107	Soil Fertility and Nutrient Management	T	2	0	0	2	50	50	100
5	A5021109	Management of 'Problem Soils and Water'	T	2	0	0	2	50	50	100
6	A5021112	Production Technology of Economic Forest Trees	T	2	0	0	2	50	50	100
7	A5021102	Lab- Seed Production Technology	P	0	0	2	1	60	40	100
8	A5021104	Lab-Integrated Farming System and Sustainable Agriculture	P	0	0	2	1	60	40	100
9	A5021106	Lab-Production of Commercial Crops	P	0	0	2	1	60	40	100
10	A5021108	Lab-Soil Fertility and Nutrient Management	P	0	0	2	1	60	40	100
11	A5021110	Lab-Management of 'Problem Soils and Water'	P	0	0	2	1	60	40	100
12	A5021111	Lab-Analytical Techniques in Soil, Plant, Fertilizer and Water analysis	P	0	0	4	2	60	40	100
13	A5021113	Lab- Production Technology of Economic Forest Trees	P	0	0	2	1	60	40	100
Total No. of Credits							20			

Semester: 11th (Group-II Crop Protection)										
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks
				L	T	P				
1	A5021114	Apiculture	T	1	0	0	1	50	50	100
2	A5021116	Biocontrol and Integrated Pest Management	T	2	0	0	2	50	50	100
3	A5021118	Pesticides and Plant Protection Equipment	T	2	0	0	2	50	50	100
4	A5021121	Biocontrol and Integrated Disease Management	T	2	0	0	2	50	50	100
5	A5021123	Post Harvest Diseases and their Management	T	2	0	0	2	50	50	100
6	A5021115	Lab- Apiculture	P	0	0	4	2	60	40	100
7	A5021117	Lab- Biocontrol and Integrated Pest Management	P	0	0	2	1	60	40	100
8	A5021119	Lab- Pesticides and Plant Protection Equipment	P	0	0	2	1	60	40	100
9	A5021120	Lab- Plant Disease Diagnosis	P	0	0	4	2	60	40	100
10	A5021122	Lab- Biocontrol and Integrated Disease Management	P	0	0	2	1	60	40	100
11	A5021124	Lab- Post Harvest Diseases and their Management	P	0	0	2	1	60	40	100
12	A5021125	Lab- Mushroom Cultivation	P	0	0	6	3	60	40	100
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Study Scheme										
Semester: 11th (Group-III Horticulture)										
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks
				L	T	P				
1	A5021126	Nursery Management of Horticultural Crops	T	2	0	0	2	50	50	100
2	A5021128	Commercial Fruit Production	T	2	0	0	2	50	50	100
3	A5021130	Processing and Value Addition of Fruits and Vegetables	T	3	0	0	3	50	50	100
4	A5021132	Commercial Vegetable Production	T	2	0	0	2	50	50	100
5	A5021134	Vegetable Breeding and Seed Production	T	2	0	0	2	50	50	100
6	A5021136	Forcing Techniques in Vegetable Production	T	1	0	0	1	50	50	100
7	A5021138	Commercial Floriculture and Landscaping	T	1	0	0	1	50	50	100
8	A5021127	Lab-Nursery Management of Horticultural Crops	P	0	0	2	1	60	40	100
9	A5021129	Lab- Commercial Fruit Production	P	0	0	2	1	60	40	100
10	A5021131	Lab- Processing and Value Addition of Fruits and Vegetables	P	0	0	2	1	60	40	100
11	A5021133	Lab- Commercial Vegetable Production	P	0	0	2	1	60	40	100
12	A5021135	Lab- Vegetable Breeding and Seed Production	P	0	0	2	1	60	40	100
13	A5021137	Lab- Forcing Techniques in Vegetable Production	P	0	0	2	1	60	40	100
14	A5021139	Lab- Commercial Floriculture and Landscaping	P	0	0	2	1	60	40	100
Total No. of Credits							20			

Semester: 11th (Group-IV Plant Breeding,Genetics and Biotechnology)										
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks
				L	T	P				
1	A5021140	Genetics of Crop Plants	T	2	0	0	2	50	50	100
2	A5021142	Cytogenetics of Crop Plants	T	2	0	0	2	50	50	100
3	A5021144	Theory and Practice of Plant Breeding	T	2	0	0	2	50	50	100
4	A5021146	Introduction to Breeding of Field Crops	T	3	0	0	3	50	50	100
5	A5021147	Crop Experimentation	T	1	0	0	1	50	50	100
6	A5021149	Principles and Procedures of Plant Tissue Culture and Transformation	T	2	0	0	2	50	50	100
7	A5021151	Principles and Procedures of Molecular Biotechnology and Genomics	T	2	0	0	2	50	50	100
8	A5021141	Lab- Genetics of Crop Plants	P	0	0	2	1	60	40	100
9	A5021143	Lab- Cytogenetics of Crop Plants	P	0	0	2	1	60	40	100
10	A5021145	Lab- Theory and Practice of Plant Breeding	P	0	0	2	1	60	40	100
11	A5021148	Lab- Crop Experimentation	P	0	0	2	1	60	40	100
12	A5021150	Lab- Principles and Procedures of Plant Tissue Culture and Transformation	P	0	0	2	1	60	40	100
13	A5021152	Lab- Principles and Procedures of Molecular Biotechnology and Genomics	P	0	0	2	1	60	40	100
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Study Scheme										
Semester: 11th (Group-V Post Harvest Technology and Value Addition)										
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks
				L	T	P				
1	A5021153	Fruits and Vegetables Technology	T	2	0	0	2	50	50	100
2	A5021155	Dairy Technology	T	2	0	0	2	50	50	100
3	A5021157	Cereal Technology	T	2	0	0	2	50	50	100
4	A5021159	Egg and Meat Technology	T	2	0	0	2	50	50	100
5	A5021161	Fundamentals of Food Biochemistry	T	2	0	0	2	50	50	100
6	A5021162	Fundamentals of Food Microbiology	T	2	0	0	2	50	50	100
7	A5021164	Engineering Principles in Food Processing	T	2	0	0	2	50	50	100
8	A5021154	Lab-Fruits and Vegetables Technology	P	0	0	2	1	60	40	100
9	A5021156	Lab-Dairy Technology	P	0	0	2	1	60	40	100
10	A5021158	Lab-Cereal Technology	P	0	0	2	1	60	40	100
11	A5021160	Lab-Egg and Meat Technology	P	0	0	2	1	60	40	100
12	A5021163	Lab-Fundamentals of Food Microbiology	P	0	0	2	1	60	40	100
13	A5021165	Lab-Engineering Principles in Food Processing	P	0	0	2	1	60	40	100
Total No. of Credits							20			

Semester: 11th (Group-VI Agri-Business and Extension Management)										
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks
				L	T	P				
1	A5021166	Financial and Project Management	T	3	0	0	3	50	50	100
2	A5021168	Retailing and Supply Chain Management	T	3	0	0	3	50	50	100
3	A5021169	Micro Economic Analysis	T	3	0	0	3	50	50	100
4	A5021170	Macro Economic Analysis	T	3	0	0	3	50	50	100
5	A5021171	Administration of Agricultural Extension Programmes	T	2	0	0	2	50	50	100
6	A5021172	Communication and extension teaching methods	T	3	0	0	3	50	50	100
7	A5021173	Behavioural Skills for Human Resource Development	T	2	0	0	2	50	50	100
8	A5021167	Lab- Financial and Project Management	P	0	0	2	1	60	40	100
Total No. of Credits							20			

Semester: 12th										
Sr.	Subject Code	Subject Name	Type of Subject T/P	(Hours Per Week)			No. of Credits	Internal Marks	External Marks	Total Marks
				L	T	P				
1	A5021201	RAWEP I: Village Attachment	P	NA	NA	NA	3	50	50	100
2	A5021202	ELP II. Specialized Experiential Learning Programme (On-Campus)	P	NA	NA	NA	12	50	50	100
3	A5021203	ELP III. Industrial Attachment /Internship (Off-Campus)	P	NA	NA	NA	4	50	50	100
4	A5021204	ELP IV. Project Documentation and Report Preparation, Presentation (On-Campus)	P	NA	NA	NA	1	50	50	100
Total No. of Credits							20			

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Semester -12th RAWE-cum-Experiential Learning Programme (20 weeks period, 20 credit hours:0+20)			
	Period	Activity	Remarks
1	3 weeks	RAWEP I: Village Attachment (0+3)	All final year students of B.Sc. Agri.(Hons) 4-year and 6-year programmes will be divided into groups of 5-10 students each. Formulation and implementation of selected projects for study of rural situation. Planning and implementation of projects for dissemination of agricultural innovations to ameliorate site specific
2	12 weeks	ELP II. Specialized Experiential Learning Programme (On-Campus) (0+12) Elective-wise 'Experimental Learning Programme (ELP)': 1. Elective: Crop Production (i) Module for evaluating soil health and irrigation water quality (ii) Practical seed production (iii) Nursery production of important agro-forestry tree species 2. Elective: Crop Protection (i) Production of bioagents against plant pathogens (ii) Production of important parasitoids and arthropod predators as bioagents against insect pests of important field crops (iii) Handling of pesticides and plant protection equipment (iv) Commercial apiculture (v) Mushroom Production 3. Elective: Horticulture (i) Protected cultivation of vegetables and nursery	Students opting for a particular elective programme will opt for any one activity (ELP) within the elective
3	4 weeks	ELP III. Industrial Attachment (Off-Campus) (0+4)	Students will attend 4 weeks off-campus activities (elective wise). Student will opt for only one of the listed activities within his/ her elective
4	1 week	ELP IV. Project Documentation and Report Preparation, Presentation (On-Campus) (0+1) -	

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Semester -12th Elective-wise Off-campus RAWE-cum-Experiential Learning Activities(ELP Industrial Attachment, 4 weeks period, 4 credit hours: 0+4)		
S. No	Elective	Industrial attachment
1	Crop Production	(i) Seed production and marketing organisations (ii) Fertilizer industries in public, private and cooperative sectors (iii) Vermicompost units (iv) Mineral mines (v) Mentha distillation plants (vi) Units for production and marketing of agrochemicals (vii) Soybean processing units (viii) Plywood manufacturing industries (ix) Hi-tech industry (tree planting stock production) (x) Biofertilizers (xi) Farm School
2	Crop Protection	(i) Pesticide and biopesticide industries (ii) Sericulture units (iii) Biocontrol agents production units (iv) Plant Quarantine Station (v) Potato seed production unit (vi) Commercial honey production, hive and other apicultural equipment and honey processing plants manufacturing units (vii) Mushroom production units
3	Horticulture	(i) Commercial nurseries – Fruits, flowers and vegetable crops (ii) Flower seed production and landscaping units (iii) Flower marketing firms (iv) Waxing and package house
4	Plant Breeding, Genetics and Biotechnology	(i) Biotechnological industries and tissue culture labs (ii) Seed production units, seed Farms
5	Post Harvest Technology and Value Addition	(i) Agriculture & Food processing and packaging units (ii) Mushroom production units (iii) Biofertilizer units
6	Agri-Business and Extension Management	(i) Attachment with various public, private and cooperative organisations engaged in agricultural development. (CAO, Deputy Director(Horticulture), Soil Conservation, PAMETI, ATMA,IFFCO, KRIBHCO, MARKFED, DRDA, Zila Parishad, Refinery, Thermal plant units for sulphur marketing etc.) (ii) Agricultural Financial Institutions / branches of Commercial Banks / Co-operative Banks, Co-operative Agricultural Service Societies (CASS), market committees (iii) Agri-business industry in Public/ Private sector to study Agri-business Management practices/ processes Student will opt for only one of the above listed activities within his/her elective