

**B.Sc. (Hons.) AGRICULTURE CURRICULUM
(I – VIII SEMESTERS)**

I SEMESTER

S.No	Course code	Course Title	Credit hours
1	U18CAGR 101	Fundamentals of Agronomy and Agricultural Heritage	1+1
2	U18CBIC 101	Fundamentals of Plant Biochemistry	2+1
3	U18CSAC 101	Fundamentals of Soil Science	2+1
4	U18CFOR 111	Introduction to Forestry	1+1
5	U18HENG 101	Comprehension & Communication Skills in English	1+1
6	U18CHOR 111	Fundamentals of Horticulture	1+1
7	U18BMAT 111	Elementary Mathematics	1+1
8	U18CPBG 101	Introduction to Agricultural Botany	1+1
9	U18AAEX101	Rural Sociology & Educational Psychology	2+0
10	U18HTAM101/ U18HENG103	□□□□□□□□□□□□ □□□□□□□□□□ □□□□□□□□ □□□□ □□□□□□□□□□ / Development Education Development Education	0+1 0+1
11	U18HNSS/NCC 101	NSS/NCC	0+1*
12	U18HPED 101	Physical Education	0+1*
13	U18HPED102	Yoga for human excellence	0+1*
		Total	12+9=21
		*Non-gradual compulsory courses	

II SEMESTER

S.No	Course code	Course Title	Credit hours
1	U18CSWE 112	Soil and Water Conservation Engineering	1+1
2	U18CCRP 101	Fundamentals of crop Physiology	2+1
3	U18AAEC 102	Fundamentals of Agricultural Economics	1+1
4	U18CAGM 101	Fundamentals of Microbiology	2+1
5	U18AAEX 102	Fundamentals of Agricultural Extension Education	2+1
6	U18AFSN 111	Principles of Food Science and Nutrition	1+1
7	U18CAGR 102	Introductory Agro-meteorology & Climate Change	1+1
8	U18CHOR 112	Production Technology for Fruit and Plantation Crops	1+1
9	U18ARSG 101	Geo- informatics for Precision Farming	1+0
10	U18HNSS/NCC 101	NSS/NCC	0+1*
11	U18HPED 101	Physical Education	0+1*
		Total	13+8=21
		*Non-gradual compulsory courses	

III SEMESTER

S.No	Course code	Course Title	Credit hours
1	U18CPAT 201	Fundamentals of Plant Pathology	2+1
2	U18CAEN 201	Fundamentals of Entomology	2+1
3	U18CSST 201	Principles of Seed Technology	2+1
4	U18CAGR 201	Crop Production Technology – I (<i>Kharif</i> crops)	1+1
5	U18CHOR 211	Production Technology for Vegetables and Spices	1+1
6	U18AENS 201	Environmental Studies & Disaster Management	2+1
7	U18AAMP 201	Livestock and Poultry Management	2+1
8	U18AAEC 201	Farm Management, Production & Resource Economics	1+1
9	U18CSAC 201	Soil Resource Inventory	1+1
10	U18AFMP 211	Farm Machinery and Power	1+1
11	U18AAGR 202	Study tour	0+1*
12	U18HNSS/NCC 101	NSS/NCC	0+1*
13	U18HPED 101	Physical Education	0+1*
		Total	15+10=25
		*Non-gradial compulsory courses	

IV SEMESTER

S.No	Course code	Course Title	Credit hours
1	U18CPBG 201	Fundamentals of Genetics	2+1
2	U18AAEX 201	Communication Skills and Personality Development	1+1
3	U18BSTA 211	Statistical Methods	1+1
4	U18CPAT 201	Principles of plant disease management	1+1
5	U18CAEN 202	Management of beneficial and harmful insects	2+1
6	U18CAGR 203	Crop Production Technology – II (<i>Rabi</i> crops)	1+1
7	U18CAGR 204	Farming System & Sustainable Agriculture	1+1
8	U18CSAC 202	Problematic soils and their management	2+0
9	U18CHOR 212	Production Technology for Ornamental Crops, MAP and Landscaping	1+1
10	U18CANM 201	Introductory Nematology	0+1
11	U18ANST 201	Fundamentals and Applications of nanotechnology	1+0
12	U18AERG 211	Renewable Energy and green technology	1+1
12	U18HNSS/NCC 101	NSS/NCC	0+1*
13	U18HPED 101	Physical Education	0+1*
		Total	14+10=24
		*Non-gradial compulsory courses	

V SEMESTER

S.No	Course code	Course Title	Credit hours
1	U18CPBG 301	Fundamentals of Plant Breeding	2+1
2	U18AAEC 301	Agricultural Marketing Trade & Prices	2+1
3	U18CAGM 301	Agricultural Microbiology	1+1
4	U18CPAT 301	Diseases of Field and Horticultural crops and their management - I	1+1
5	U18AARM 301	Entrepreneurship Development and Business Management	1+1
6	U18CAGR 301	Practical Crop Production - I (<i>Kharif</i> crops)	0+2
7	U18CHOR 311	Post harvest management and value addition of fruits and vegetable crops	1+1
8	U18CSAC 301	Manures, Fertilizers and Soil Fertility Management	2+1
9	U18AAPE 311	Protected Cultivation and Secondary Agriculture	1+1
10	U18CAGR 302	Rainfed Agriculture & Watershed Management	1+1
11	U18CAEN 301	Pests of Field crops and stored produces and their management	1+1
11	U18HNCC 101	NCC*	
		Total	13+12=25
		*Non-gradial compulsory courses	

VI SEMESTER

S.No	Course code	Course Title	Credit hours
1	U18AAEC 302	Agricultural Finance and Co-Operation	2+1
2	U18CPAT 302	Diseases of Field and Horticultural crops and their management -II	2+1
3	U18HCOM 311	Agro Informatics	1+1
4	U18AENS 301	Environmental Pollution and Management	1+1
5	U18CAEN 301	Pests of Crops and Stored grain and their Management	2+1
6	U18CAGR 303	Practical Crop Production - II (<i>Rabi</i> crops)	0+2
7	U18CAGR 304	Principles of organic Farming	1+1
8	U18CABT 301	Plant Bio technology	2+1
9	U18CPBG 302	Crop Improvement	2+1
10	U18OOPT 301	Optional course**	1+1
11	U18HNCC 101	NCC*	
		Total	13+11=24
*Non-gradial compulsory courses			
** List of Optional courses has been attached in Page No.5			

VII SEMESTER

S.No	Course code	Course Title	Credit hours
1	U18AAEX 401	Student RAWE & AIA programme (Rural Agricultural Work Experience and Agro-industrial Attachment)	0+20
2	U18CAGR 401	Project Report Preparation, presentation and Evaluation	0+1
3	U18AAEX 402	All India Study Tour*	0+1
		Total	22

VIII SEMESTER

S.No	Course code	Course Title		Credit hours
1	U18AELPXXX	Experiential Learning Programme/	Module I	0+10
2	U18AELPYYY	Hands on training (HOT)	Module II	0+10
			Total	20
* List of Experiential courses has been attached in Page No.5				

Total Credit Hours - 181

***LIST OF EXPERIENTIAL COURSES (EC)- (For 8th Semester)**

S.No	Course code	Course Title	Credit hours
1	U18AELP001	Bio-agents and Bio-fertilizer production	0+10
2	U18AELP002	Hybrid Seed Production in Vegetables Crops	0+10
3	U18AELP003	On Farm Advisory for Soil Health, Water Quality & Plant Nutrition	0+10
4	U18AELP004	Commercial Beekeeping	0+10
5	U18AELP005	Commercial Cocoon Production	0+10
6	U18AELP006	Commercial Plant Tissue Culture	0+10
7	U18AELP007	Commercial Nursery Technology of Horticultural Crops	0+10
8	U18AELP008	Commercial Landscape Gardening	0+10
9	U18AELP009	Commercial production of Bio-control agents	0+10
10	U18AELP010	Commercial mushroom production	0+10
11	U18AELP011	Commercial broiler and layer production	0+10
12	U18AELP012	Commercial seed production	0+10
13	U18AELP013	Hybrid pearl millet seed production	0+10
14	U18AELP014	Hybrid rice parental line seed production	0+10
15	U18AELP015	Managerial skill for Agribusiness	0+10
16	U18AELP016	Export Import and Protection of Property Rights in Agriculture	0+10
17	U18AELP017	Development of Integrated Farming system Model	0+10
18	U18AELP018	Protected cultivation of Vegetable crops	0+10
19	U18AELP019	Composting technology	0+10
20	U18AELP020	Utilization of Rearing Bed Refuse, Pupae and Unreliable Cocoons	0+10
21	U18AELP021	Agri-business management	0+10

****LIST OF OPTIONAL COURSES (OC) – (For 6th Semester)**

S.No	Course code	Course Title	Credit hours
1	U18OCAG001	Applied Crop Physiology	1+1
2	U18OCAG002	Designer fertilizer Production	1+1
3	U18OCAG003	Rejuvenation of Deteriorated lands	1+1
4	U18OCAG004	Soilless crop production	1+1
5	U18OCAG005	Instrumental methods of analysis	1+1
6	U18OCAG006	Seed entrepreneurship skill development and management	1+1
7	U18OCAG007	Production Technology of Field Crops	1+1
8	U18OCAG008	Environmental Pollution and Management	1+1
9	U18OCAG009	Plant Genetic Resources Collection, Conservation and Utilization	1+1
10	U18OCAG010	Commercial Production of Nematode Antagonistic bio-agents	1+1
11	U18OCAG011	Downstream Processing for Industrially Important Microbial products	1+1
12	U18OCAG012	Microbial Enzymes	1+1
13	U18OCAG013	Microbial Quality and Safety of Foods	1+1
14	U18OCAG014	Plant –Microbe Interaction	1+1
15	U18OCAG015	Quality Control of Bio-inoculants	1+1
16	U18OCAG016	Crop and Pesticide chemistry	1+1