

B. Sc (Hons.) Agriculture (2017 Syllabus)

I SEMESTER			
1	AGR 101	Fundamentals of Agronomy and Agricultural Heritage	1+1
2	BIC 101	Fundamentals of Plant Biochemistry	2+1
3	SAC 101	Fundamentals of Soil Science	2+1
4	FOR 111	Introduction to Forestry	1+1
5	ENG 101	Comprehension & Communication Skills in English	1+1
6	HOR 111	Fundamentals of Horticulture	1+1
7	MAT 111	Elementary Mathematics	1+1
8	PBG 101	Introduction to Agricultural Botany	1+1
9	AEX101	Rural Sociology & Educational Psychology	2+0
10	TAM101	Ilakkiyathil Velanmaiyum Ariviyal Tamil Payanakkamum	0+1
	ENG103	Development Education	

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11	NSS/NCC 101	NSS/NCC	0+1*
12	PED 101	Physical Education	0+1*
13	PED102	Yoga for human excellence	0+1*
Total			12+9=21
II SEMESTER			
1	SWE 112	Soil and Water Conservation Engineering	1+1
2	CRP 101	Fundamentals of crop Physiology	2+1
3	AEC 102	Fundamentals of Agricultural Economics	1+1
4	AGM 101	Fundamentals of Microbiology	2+1
5	AEX 102	Fundamentals of Agricultural Extension Education	2+1
6	FSN 111	Principles of Food Science and Nutrition	1+1

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7	AGR 102	Introductory Agro-meteorology & Climate Change	1+1
8	HOR 112	Production Technology for Fruit and Plantation Crops	1+1
9	RSG 101	Geo- informatics for Precision Farming	1+0
10	NSS/NCC 101	NSS/NCC	0+1*
11	PED 101	Physical Education	0+1*
Total			12+8=20
III SEMESTER			
1	PAT 201	Fundamentals of Plant Pathology	2+1
2	AEN 201	Fundamentals of Entomology	2+1
3	SST 201	Principles of Seed Technology	2+1
5	AGR 201	Crop Production Technology – I (Kharif crops)	1+1
6	HOR 211	Production Technology for Vegetables and Spices	1+1

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7	ENS 201	Environmental Studies & Disaster Management	2+1
8	AMP 201	Livestock and Poultry Management	2+1
9	AEC 201	Farm Management, Production & Resource Economics	1+1
10	SAC 201	Soil Resource Inventory	1+1
11	FMP 211	Farm Machinery and Power	1+1
12	AGR 202	Study tour	0+1*
13	NSS/NCC 101	NSS/NCC	0+1*
14	PED 101	Physical Education	0+1*
Total			15+10=25
IV SEMESTER			
1	PBG 201	Fundamentals of Genetics	2+1
2	AEX 201	Communication Skills and Personality Development	1+1

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3	STA 211	Statistical Methods	1+1
5	PAT 202	Principles of integrated plant disease management	1+1
6	AEN 202	Management of beneficial and harmful insects	2+1
7	AGR 203	Crop Production Technology – II (Rabi crops)	1+1
8	AGR 204	Farming System & Sustainable Agriculture	1+1
9	SAC 202	Problematic soils and their management	2+0
10	HOR 212	Production Technology for Ornamental Crops, MAP and Landscaping	1+1
11	ANM 201	Introductory Nematology	0+1
12	NST 201	Fundamentals and Applications of nanotechnology	1+0
13	ERG 211	Renewable Energy and green technology	1+1
14	NSS/NCC101	NSS/NCC	0+1*

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15	PED 101	Physical Education	0+1*
Total			14+10=24
V SEMESTER			
1	PBG 301	Fundamentals of Plant Breeding	2+1
2	AEC 301	Agricultural Marketing Trade & Prices	2+1
3	AGM 301	Agricultural Microbiology	1+1
5	PAT 301	Diseases of Field and Horticultural crops and their management – I	1+1
6	ARM 301	Entrepreneurship Development and Business Management	1+1
7	AGR 301	Practical Crop Production – I (Kharif crops)	0+2
8	HOR 311	Post harvest management and value addition of fruits and vegetable crops	1+1
9	SAC 301	Manures, Fertilizers and Soil Fertility Management	2+1

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10	APE 311	Protected Cultivation and Secondary Agriculture	1+1
11	AGR 302	Rainfed Agriculture & Watershed Management	1+1
12	AEN 301	Pests of Field crops and stored produces and their management	1+1
13	NCC 101	NCC*	0+1
		Total	13+12=25
VI SEMESTER			
1	AEC 302	Agricultural Finance and Co-Operation	2+1
2	PAT 302	Diseases of Field and Horticultural crops and their management -II	2+1
3	COM 311	Agro Informatics	1+1
5	ENS 301	Environmental Pollution and Management	1+1
6	AEN 302	Pests of Crops and Stored grain and their Management	1+1

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7	AGR 303	Practical Crop Production – II (Rabi crops)	0+2
8	AGR 304	Principles of organic Farming	1+1
9	ABT 301	Plant Bio technology	2+1
10	PBG 302	Crop Improvement	2+1
11	NCC 101	NCC*	0+1
12	OPT 301	Optional course	1+1
	CRP 351	Physiological Techniques in crop production	
	SAC351	Designer fertilizer Production	
	SAC352	Rejuvenation of Deteriorated lands	
	SAC353	Soilless crop production	
	SAC354	Instrumental methods of analysis	
	SST 351	Seed entrepreneurship skill development and management	

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	AGR 351	Weed and water management	
	PGP 351	Plant Genetic Resources Collection, Conservation and Utilization	
	NEM 351	Commercial Production of Nematode Antagonistic bio-agents	
	AGM351	Downstream Processing for Industrially Important Microbial Products	
	AGM 352	Microbial Enzymes	
	AGM 353	Microbial Quality and Safety of Foods	
	AGM 354	Plant –Microbe Interaction	
	AGM 355	Quality Control of Bio-inoculants	
	SAC 355	Crop and Pesticide Chemistry	
			Total
			13+11=24
VII SEMESTER			

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1	AEX 401	Student READY programme (Rural Agricultural Work Experience and Agro-industrial Attachment)	0+20
2	PRJ 401	Project Report Preparation, presentation and Evaluation	0+1
3	AEX 402	All India Study Tour*	0+1
Total			0+22=22
VIII SEMESTER (Experiential Learning Programme/ HOT)			
1	Module-I		0+10
2	Module-II		0+10
Total			0+20=20
List of Modules			
	AGM 451	Bio-inoculant production technology	
	HOR 451	Hybrid Seed Production in Vegetable Crops	

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	SAC 451	On Farm Advisory for Soil Health, Water Quality & Plant Nutrition	
	AEN 451	Commercial Beekeeping	
	SER 451	Commercial Cocoon Production	
	ABT 451	Commercial Plant Tissue Culture	
	HOR452	Commercial Nursery Technology of Horticultural Crops	
	HOR 453	Commercial Landscape Gardening	
	PAT 451	Commercial production of Bio-control agents	
	PAT 452	Commercial mushroom production	
	AMP 451	Commercial broiler and layer production	
	SST 451	Commercial seed production	
	PBG 451	Hybrid pearl millet seed production	

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	PBG 452	Hybrid rice parental line seed production	
	ARM 451	Managerial skills for Agribusiness	
	AGR 451	Development of Integrated Farming system Model	
	HOR 454	Protected cultivation of Vegetable crops	
	ENS 451	Composting technology	
	AGR 452	Organic Agriculture	
*Non-gradual courses compulsory courses			