

2017 Syllabus – B.Sc (Hons.)Agri

I SEMESTER

S. No	Course code	Course Title	Credit load
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/ ENG103	இலக்கியங்களில் வேளாண்மையும் அறிவியல் தமிழ் பயனாக்கமும் / Development Education	0+1
11	NSS/NCC 101	NSS/NCC	0+1*
12	PED 101	Physical Education	0+1*
13	PED102	Yoga for human excellence	0+1*
		*Non-gradual courses compulsory courses	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
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*
		*Non-gradual courses compulsory courses	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
4	AGR 201	Crop Production Technology – I (<i>Kharif</i> crops)	1+1
5	HOR 211	Production Technology for Vegetables and Spices	1+1
6	ENS 201	Environmental Studies & Disaster Management	2+1
7	AMP 201	Livestock and Poultry Management	2+1
8	AEC 201	Farm Management, Production & Resource Economics	1+1
9	SAC 201	Soil Resource Inventory	1+1
10	FMP 211	Farm Machinery and Power	1+1
11	AGR 202	Study tour	0+1*
12	NSS/NCC 101	NSS/NCC	0+1*
13	PED 101	Physical Education	0+1*
		*Non-gradial courses compulsory courses	Total 15+10=25

IV Semester

1	PBG 201	Fundamentals of Genetics	2+1
2	AEX 201	Communication Skills and Personality Development	1+1
3	STA 211	Statistical Methods	1+1
4	PAT 201	Principles of plant disease management	1+1
5	AEN 202	Beneficial insects and Principles of Insect pest management	2+1
6	AGR 203	Crop Production Technology – II (<i>Rabi</i> crops)	1+1
7	AGR 204	Farming System & Sustainable Agriculture	1+1
8	SAC 202	Problematic soils and their management	2+0
9	HOR 212	Production Technology for Ornamental Crops, MAP and Landscaping	1+1
10	ANM 201	Introductory Nematology	0+1
11	NST 201	Fundamentals and Applications of nanotechnology	1+0
12	ERG 211	Renewable Energy and Green Technologu	1+1
13	NSS/NCC 101	NSS/NCC	0+1*
	PED 101	Physical Education	0+1*
		*Non-gradial courses compulsory courses	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
4	PAT 301	Diseases of Field and Horticultural crops and their management - I	1+1
5	ARM 301	Entrepreneurship Development and Business Communication	1+1
6	AGR 301	Practical Crop Production - I (<i>Kharif crops</i>)	0+2
7	HOR 311	Post harvest management and value addition of fruits and vegetable crops	1+1
8	SAC 301	Manures, Fertilizers and Soil Fertility Management	2+1
9	APE 311	Protected cultivation and secondary Agriculture	1+1
10	AGR 302	Rainfed Agriculture & Watershed Management	1+1
11	AEN 301	Pests of Field Crops and Stored produces and their Management	1+1
12	NCC 101	NCC*	
		*Non-gradial courses compulsory courses	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
4	ENS 301	Environmental Pollution and Management	1+1
5	AEN 302	Pests of Horticultural Crops and Stored produces and their Management	1+1
6	AGR 303	Practical Crop Production - II (<i>Rabi crops</i>)	0+2
7	AGR 304	Principles of organic Farming	1+1
8	ABT 301	Plant Bio technology	2+1
9	PBG 302	Crop Improvement	2+1
10		Optional course	1+1
11	NCC 101	NCC*	
		*Non-gradial courses compulsory courses	Total 13+11=24

Optional courses for 2 credits			
S.N.	Code No.	Courses	Credit Hours
1.	CRP 351	Physiological Techniques in crop production	2 (1+1)
2.	SAC351	Designer fertilizer Production	2 (1+1)
3.	SAC352	Rejuvenation of Deteriorated lands	2 (1+1)
4.	SAC353	Soilless crop production	2 (1+1)
5.	SAC354	Instrumental methods of analysis	2 (1+1)
6.	SST 351	Seed entrepreneurship skill development and management	2 (1+1)
7.	AGR 351	Weed and water management	2 (1+1)
8.	PGP 351	Plant Genetic Resources Collection, Conservation and Utilization	2 (1+1)
9.	NEM 351	Commercial Production of Nematode Antagonistic bio-agents	2 (1+1)
10.	AGM351	Downstream Processing for Industrially Important Microbial Products	2 (1+1)
11.	AGM 352	Microbial Enzymes	2 (1+1)
12.	AGM 353	Microbial Quality and Safety of Foods	2 (1+1)
13.	AGM 354	Plant –Microbe Interaction	2 (1+1)
14.	AGM 355	Quality Control of Bio-inoculants	2 (1+1)
15.	SAC 355	Crop and Pesticide Chemistry	2 (1+1)

VII Semester

S No.	Course code	Course Title	Credit Load
1	AEX 401	Student READY programme (Rural Agricultural Work Experience and Agro-industrial Attachment)	0+20
2	APW 401	Project Report Preparation, presentation and Evaluation	0+1
3.	AEX 402	All India Study Tour*	0+1

- Non gradial compulsory

IV Year VIII Semester

S No.	Course code	Course Title	Credit Load	
1	EXP 401	Module –I	0+10	VIII
2	EXP 402	Module –II	0+10	VIII
		Total	0+20	

S.No	Course code	Titles of the module	Credits
1.	AGM 451	Bio-inoculant production technology	0+10
2.	HOR 451	Hybrid Seed Production in Vegetable Crops	0+10
3.	SAC 451	On Farm Advisory for Soil Health, Water Quality & Plant Nutrition	0+10
4.	AEN 451	Commercial Beekeeping	0+10
5.	SER 451	Commercial Cocoon Production	0+10
6.	ABT 451	Commercial Plant Tissue Culture	0+10
7.	HOR452	Commercial Nursery Technology of Horticultural Crops	0+10
8.	HOR 453	Commercial Landscape Gardening	0+10
9.	PAT 451	Commercial production of Bio-control agents	0+10
10.	PAT 452	Commercial mushroom production	0+10
11.	AMP 451	Commercial broiler and layer production	0+10
12.	SST 451	Commercial seed production	0+10
13.	PBG 451	Hybrid pearl millet seed production	0+10
14.	PBG 452	Hybrid rice parental line seed production	0+10
15.	ARM 451	Managerial skills for Agribusiness	0+10
16.	AGR 451	Development of Integrated Farming system Model	0+10
17.	HOR 454	Protected cultivation of Vegetable crops	0+10
18.	ENS 451	Composting technology	0+10
19.	AGR 452	Organic Agriculture	0+10
20.	AEX451	Advanced digital tools for skill development	0+10
21.	RSG 451	Drone application	0+10
22.	ARM 453	Agricultural Export and import management	0+10
23.	ARM 452	Digital Marketing	0+10

Module 1

1.	AEN 451 Commercial Beekeeping 0+10
2.	ENS 451 Composting technology 0+10
3.	AGM 451 Bio-inoculant production technology 0+10
4.	AGR 452 Organic Agriculture 0+10
5.	ARM 452 Digital Marketing 0+10
6.	ARM 451 Managerial skills for Agribusiness (0+10)
7.	PAT 451 Commercial production of Bio-control agents (0+10)
8.	HOR 451 Hybrid Seed Production in Vegetable Crops (0+10)
9.	HOR 452 Commercial Nursery Technology of Horticultural Crops
10.	AMP 451 Commercial broiler and layer production
11.	PBG 451 Hybrid pearl millet seed production
12.	SER 451 Commercial Cocoon Production 0+10

Module -2

1	AEX451 Advanced digital tools for skill development 0+10
2	SST 451 Commercial seed Production(0+10)
3	SAC 451 On Farm Advisory for Soil Health, Water Quality & Plant Nutrition 0+10
4	HOR 454 Protected Cultivation of Vegetable Crops (0+10)
5	AGR 451 Development of Integrated Farming System (0+10)
6	PAT 452 Commercial mushroom production 0+10
7	ARM 453 Agricultural Export and import management (0+10)
8	RSG 451 Drone application (0+10)
9	HOR 453 Commercial Landscape Gardening
10	PBG 452 Hybrid rice parental line seed production
11	ABT 451 Commercial plant Tissue culture 0+10