

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

### 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	,yf;fpa';fspy; ntshz;ika[k; mwptpay; jkpH; gadhf;fKk;	0+1
11	ENG103	Development Education	0+1
12	NSS/NCC 101	NSS/NCC	0+1*
13	PED 101	Physical Education	0+1*
14	PED102	Yoga for human excellence	0+1*
		Total	<b>12+9=21</b>
		<b>*Non-gradial courses compulsory courses</b>	

### II SEMESTER

S. No	Course code	Course Title	Credit load
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*
		Total	<b>13+8=21</b>
		<b>*Non-gradial courses compulsory courses</b>	

### III SEMESTER

S. No.	Course code	Course Title	Credit load
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*
		<b>Total</b>	<b>15+10=25</b>
		<b>*Non-gradual courses compulsory courses</b>	

### IV SEMESTER

S. No.	Course code	Course Title	Credit load
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	Management of beneficial and harmful insects	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 technology	1+1
12	NSS/NCC 101	NSS/NCC	0+1*
13	PED 101	Physical Education	0+1*
		<b>Total</b>	<b>14+10=24</b>
		<b>*Non-gradual courses compulsory courses</b>	

### V SEMESTER

S. No.	Course code	Course Title	Credit load
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 Management	1+1
6	AGR 301	Practical Crop Production - I ( <i>Kharif</i> crops)	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
11	NCC 101	NCC*	
		<b>Total</b>	<b>13+12=25</b>
		<b>*Non-gradial courses compulsory courses</b>	

### VI SEMESTER

S. No.	Course code	Course Title	Credit load
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 301	Pests of Crops and Stored grain and their Management	2+1
6	AGR 303	Practical Crop Production - II ( <i>Rabi</i> crops)	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	OPT 301	Optional course	1+1
11	NCC 101	NCC*	
		<b>Total</b>	<b>13+11=24</b>
		<b>*Non-gradial courses compulsory courses</b>	

## 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	AGR 401	Project Report Preparation, presentation and Evaluation	0+1
3.	AEX 402	All India Study Tour*	0+1

Non gradial compulsory

## VIII SEMESTER

(Experiential Learning Programme/ HOT)	
Module	Credit Hrs.
1. Module-I	0+10
2. Module-II	0+10
<b>Total</b>	<b>0+20</b>

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

**DEPARTMENT WISE DISTRIBUTION OF COURSES**

Department	ICAR		TNAU	
	No. of courses	Credit Hours	No. of courses	Credit Hours
Agronomy	9	19	9	18
Nano tech & RSGIS	1	2	2	2
Plant Breeding and Genetics	5	13	5	14
Soil Science and Agrl. Chemistry	3	8	4	10
Entomology	3	9	3	9
Nematology	--	--	1	2
Economics	4	10	4	10
Agrl. Engineering	4	8	4	8
Plant Pathology	4	13	4	10
Horticulture	5	10	4	10
Food Science	1	2	1	2
Agrl. Extension	4	9	4	9
Bio chemistry & Bio technology	1	3	2	6
Crop physiology	1	3	1	3
Agrl. microbiology	1	2	2	5
Environmental Science	1	3	2	5
Forestry	1	2	1	2
Statistics	1	2	1	2
Maths	1	2	1	2
Computer Science	1	2	1	2
IPR	1	1	--	--
Animal Husbandry	1	4	1	3
Language	1	2	3	3
NSS/NCC/Yoga/PED	3	Non gradial	3	Non gradial
Tour	2	Non gradial	2	Non gradial
Project	--	--	1	1
RAWE	1	20	1	20
Experiential learning	2	20	2	20
Human values and ethics	1	1	--	--
Elective course	3	9	1	2
	66	180/183	69	180