

science & Technology or Table-2 for B.Sc. Honors in Horticulture science & Technology.

TABLE 1: B.Sc. HONORS IN AGRICULTURE SCIENCE & TECHNOLOGY

I Semester Curriculum

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit
I	1	Introductory Agriculture Principles of Agronomy, Soil Management and Major field crops	AGR.101	2+1	4	3
	2	Plant Biochemistry	BCM. 101	1+1	3	2
	3	Agriculture Microbiology	AMB. 101	1+1	3	2
	4	Fundamentals of Entomology, Insect Morphology and systematic	AET. 101	2+1	4	3
	5	Fundamentals of rural sociology, Educational psychology & constitution of India	AEX. 101	0+2	4	2
	6	Introduction to Computers and Application	CSC. 101	1+1	3	2
	7	Comprehension and Communicative skills in English	ENG. 101	1+1	3	2
	8	Surveying, soil, and water conservation Technique	AEG. 101	2+1	4	3
	9	Principles of Food science and Nutrition	FSN. 101	1+0	1	1
	10	Physical Education, Health Education & Recreation-I	PED. 101	0+1	2	Non-credit (NC)
TOTAL				11+10	31	20+1

II Semester Curriculum

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit
II	1	Principles of Agriculture and Resource Economics	AEC. 101	1+1	3	2
	2	Water management including Micro-irrigation	AGR. 102	1+1	3	2
	3	Fundamentals of soil science	SAC. 101	2+1	4	3
	4	Crop Physiology	CPH. 101	2+1	4	3
	5	Principles of Genetics & Cytogenetics	GPB. 101	2+1	4	3
	6	Fundamentals of Horticulture and Production Technology of Fruit crops	HRT. 101	2+1	4	3
	7	Introduction to Forestry	FES. 101	1+1	3	2
	8	Plant Biotechnology	PBT. 201	1+1	3	2
	9	Physical Education, Health Education and Recreation-II	PED. 101	0+1	2	Non-credit (NC)
TOTAL				12+9	30	20+1

III Semester Curriculum

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit
III	1	Farm power, Machinery, and Renewable Energy	AEG. 201	1+1	3	2
	2	Production Technology of Vegetable Crops	HRT. 201	1+1	3	2
	3	Introductory Plant Pathology and Nematology	PAT. 201	1+1	3	2
	4	Introduction to Environmental science	FES. 201	1+0	1	1
	5	Soil Chemistry & Plant Analysis	SAC. 201	1+1	3	2
	6	Soil & Applied Microbiology	AMB. 201	1+1	3	2
	7	Fundamentals of Extension Education and Rural development	AEX. 201	1+1	3	2
	8	Production Technology of Ornamentals and Landscape Gardening	HRT. 202	1+1	3	2
	9	Introduction to Sericulture & Apiculture	AEP. 201	2+1	4	3
	10	Principles of Plant Breeding	GPB. 201	2+1	4	3
	11	National Service Scheme-I	NSS. 101	0+1	2	Non-credit (NC)
TOTAL				12+10	32	21+1

IV Semester Curriculum

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit
IV	1	Farm Management and Production Economics	AEC.201	1+1	3	2
	2	Insect Ecology and Principles of Pest Management	AET. 202	2+1	4	3
	3	Breeding of Field Crops	GPB. 202	2+1	4	3
	4	Principles of Plant Disease Management	PAT. 202	1+1	3	2
	5	Field Crop (Cereals, Pulses and Forage Crops)	AGR. 201	2+1	4	3
	6	Livestock, Poultry, Fish Production and Management	ASC. 201	2+1	4	3
	7	Weed Management	AGR. 103	1+1	3	2
	8	Practical Crop Production (Rain fed crops)	AGR. 202	0+1	2	1
	9	National Service Scheme-II	NSS. 101	0+1	2	Non - credit (NC)
TOTAL				11+9	29	19+1

V Semester Curriculum

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit
V	1	Agricultural statistics	AST. 301	1+1	3	2
	2	Pests of Crops and Stored Products and Management	AET. 301	1+1	3	2
	3	Principles of Seed Science and Technology	SST. 301	2+1	4	3
	4	Production Technology of Plantation, Spice Medicinal and Aromatic Crops	HRT. 301	1+1	3	2
	5	Diseases of Field Crops and Management	PAT. 301	2+1	4	3
	6	Practical Crop Production (Irrigated)	AGR. 203	0+1	2	1
	7	Field crops (Oilseeds, Fiber, Commercial and Bio – fuel crops)	AGR. 204	2+1	4	3
	8	Agriculture and Co-operation	AFC. 301	1+1	3	2
	9	Agriculture Metrology Rain fed Agriculture and water shed management	AGR. 301	1+1	3	2
	10	All India Educational Tour	-	-	-	Non - credit (NC)
TOTAL				11+9	29	20

VI Semester Curriculum

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit
VI	1	Agricultural Marketing Business Management and Trade	AEC. 302	2+1	4	3
	2	Protected Cultivation Structures and Post-Harvest Technology	AEG. 301	1+1	3	2
	3	Communication and Extension Methodologies for transfer of Technology	AEX. 301	1+1	3	2
	4	Experimental Techniques in Agricultural Research	AGR. 302	0+1	2	1
	5	Farming Systems, Organic Farming and Precision Agriculture	AGR. 303	2+1	4	3
	6	Manures, Fertilizers and Agro- chemicals	SAC. 301	1+1	3	2
	7	Post-harvest Management and Value Addition of Horticulture crops	HRT. 302	1+1	3	2
	8	Soil Fertility & Nutrient Management	SAC 302	1+1	3	2
	9	Diseases of Horticulture crops and Management	PAT. 302	2+1	4	3
TOTAL				11+9	29	20

VII Semester Curriculum

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit.
VII	1	Crop production	RAWE. 401	0+5	10	5
	2	Plant science	RAWE. 402	0+3	6	3
	3	Crop Protection	RAWE. 403	0+3	6	3
	4	Rural Economics	RAWE. 404	0+2	4	2
	5	Practical Extension Work in Villages	RAWE. 405	0+4	8	4
	6	Agro- based Institution	RAWE- ABI. 406	0+3	6	3
	7	State Educational Tour	-	-	-	Non- Credit (NC)
TOTAL				0+20	40	20

VIII Semester Curriculum

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit
VIII	1	Plant Protection	CPT. 401	0+5	10	5
	2	Nursery Management of Horticulture Crops	HRT. 402	0+5	10	5
	3	Commercial Mushroom Production	CMA. 403	0+5	10	5
	4	Agriculture Journalism	SSC. 404	0+5	10	5
TOTAL				0+20	40	20

TOTAL CREDITS: -

Semester	Credits
I	20
II	20
III	21
IV	19
V	20
VI	20
VII	20
VIII	20
TOTAL	160

TABLE 2: B.Sc. HONORS IN HORTICULTURAL SCIENCE & TECHNOLOGY**I Semester Curriculum**

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit
I	1	Introductory Agriculture Principles of Agronomy, Soil Management and Major field crops	AGR .101	2+1	4	3
	2	Plant Biochemistry	BCM. 101	1+1	3	2
	3	Agriculture Microbiology	AMB. 101	1+1	3	2
	4	Fundamentals of Entomology, Insect Morphology and systematic	AET. 101	2+1	4	3
	5	Fundamentals of rural sociology, Educational psychology & constitution of India	AEX. 101	0+2	4	2
	6	Introduction to Computers and Application	CSC. 101	1+1	3	2
	7	Comprehension and Communicative skills in English	ENG. 101	1+1	3	2
	8	Surveying, Soil, and water conservation technique	AEG. 101	2+1	4	3
	9	Principles of Food science and Nutrition	FSN. 101	1+0	1	1
	10	Physical Education, Health Education & Recreation-I	PED. 101	0+1	2	Non-Credit (NC)
TOTAL				11+10	31	20+1

II Semester Curriculum

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit
II	1	Principles of Agriculture and Resource Economics	AEC. 101	1+1	3	2
	2	Water management including Micro-irrigation	AGR. 102	1+1	3	2
	3	Fundamentals of soil science	SAC. 101	2+1	4	3
	4	Crop Physiology	CPH. 101	2+1	4	3
	5	Principles of Genetics & Cytogenetics	GPB. 101	2+1	4	3
	6	Fundamentals of Horticulture and Production Technology of Fruit crops	HRT. 101	2+1	4	3
	7	Introduction to Forestry	FES. 101	1+1	3	2
	8	Plant Biotechnology	PBT. 201	1+1	3	2
	9	Physical Education, Health Education and Recreation-II	PED. 101	0+1	2	Non - Credit (NC)
TOTAL				12+9	30	20+1

III Semester Curriculum

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit
III	1	Farm power, Machinery, and Renewable Energy	AEG. 201	1+1	3	2
	2	Production Technology of Vegetable Crops	HRT. 201	1+1	3	2
	3	Introductory Plant Pathology and Nematology	PAT. 201	1+1	3	2
	4	Introduction to Environmental science	FES. 201	1+0	1	1
	5	Soil Chemistry & Plant Analysis	SAC. 201	1+1	3	2
	6	Soil & Applied Microbiology	AMB. 201	1+1	3	2
	7	Fundamentals of Extension Education and Rural development	AEX. 201	1+1	3	2
	8	Production Technology of Ornamentals and Landscape Gardening	HRT. 202	1+1	3	2
	9	Introduction to Sericulture & Apiculture	AEP. 201	2+1	4	3
	10	Principles of Plant Breeding	GPB. 201	2+1	4	3
	11	National Service Scheme-I	NSS. 101	0+1	2	Non - Credit (NC)
TOTAL				12+10	32	21+1

IV Semester Curriculum

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit
IV	1	Ornamental Horticulture	FLA. 101	1+1	3	2
	2	Plantation and Beverage Crops	PMA. 101	1+1	3	2
	3	Principles of Pest Management and Bee Keeping	HET. 201	1+1	3	2
	4	Plant Propagation and Nursing Management	HCT. 201	1+1	3	2
	5	Diseases of Fruits, Plantation, Spice	HPP. 201	2+1	4	3
	6	Commercial Floriculture	FLA. 202	2+1	4	3
	7	Tropical and Sub Tropical Fruits	FSC. 201	2+1	4	3
	8	Temperate, Arid and Minor Fruits	FSC. 202	1+1	3	2
	9	National Service Scheme-II	NSS. 101	0+1	2	Non-Credit (NC)
TOTAL				11+9	29	19+1

V Semester Curriculum

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit
V	1	Temperate Vegetables and Tuber crops	VSC. 201	2+1	4	3
	2	Growth and Development of Horticulture crops	CPH. 201	1+1	3	2
	3	Experimental Techniques in Horticulture	HTL. 301	0+1	2	1
	4	Medicinal Crops	PMA. 202	2+1	4	3
	5	Principles of seed production in Horticulture Crops	CIB. 301	1+1	3	2
	6	Breeding of Fruit crops	FSC. 301	1+1	3	2
	7	Breeding and seed production of Vegetable crops	VSC. 301	1+1	3	2
	8	Breeding and seed production of Ornamental crops	FLA. 301	1+1	3	2
	9	Post-Harvest Management of Horticulture produce	PHT. 201	2+1	4	3
	10	All India Educational Tour	-	-	-	Non-credit (NC)
TOTAL				11+9	29	20

VI Semester Curriculum

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit
VI	1	Breeding of Spices, Condiments and Horticulture crops	PMA. 301	1+1	3	2
	2	Aromatic Crops	PMA. 302	2+1	4	3
	3	Organic Farming of Horticulture crops	AHR. 202	1+1	3	2
	4	Pests of Fruits, Plantation, Medicinal and Aromatic crops	HET. 301	2+1	4	3
	5	Pests of Vegetables, ornamental and spice crops	HET. 302	1+1	3	2
	6	Diseases of vegetables, ornamental, medicinal and aromatic crops	HPP. 301	2+1	4	3
	7	Processing of Horticulture Produce	PHT. 301	2+1	4	3
	8	Horticulture Business Management	AEC. 301	1+1	3	2
TOTAL				12+8	28	20

VII Semester Curriculum

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit
VII	1	Vegetable Science, Fruit Science, Post-Harvest Technology, Floriculture and Landscape	RHWE. 401	0+5	10	5
	2	Medicinal and aromatic crops, plant improvement and Biotechnology, spices and plantation crops,	RHWE. 402	0+5	10	5
	3	Horticulture Entomology, Pathology, soil science agronomy crop physiology	RHWE. 403	0+5	10	5
	4	Agriculture and Economics, seed science and technology, agriculture engineering and Agriculture microbiology	RHWE. 404	0+5	10	5
TOTAL				0+20	40	20

VIII Semester Curriculum

Semester	Sl. No	Course Title	Course Code	L+P	Contact hrs.	Credit
VIII	1	Processing of Fruits and Vegetables for value addition or Commercial Horticulture or Protected cultivation of high value horticulture crops	HEL. 401	0+20	40	20
TOTAL				0+20	40	20

TOTAL CREDITS: -

Semester	Credits
I	20
II	20
III	21
IV	19
V	20
VI	20
VII	20
VIII	20
TOTAL	160

TABLE-3: SYALLABUS FOR BRIDGE COURSE

Bridge Course					
SI. NO.	COURSE CODE	COURSE TITLE	L+P	Contact. Hrs.	Credit
I	EB101	Elementary Biology	3+1	3+2	3+1