



School of Agricultural Sciences
B.Sc (Hons.) Horticulture

I Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	BSHC 7110	Fundamentals of Soil Science	2	0	1	5	3
2	BSHC 7111	Economics and Marketing	2	0	1	5	3
3	BSHC 7112	Elementary Plant Biochemistry	1	0	1	4	2
4	BSHC 7113	Introductory Crop Physiology	1	0	1	4	2
5	BSHC 7114	Fundamentals of Horticulture	2	0	1	5	3
6	BSHC 7115	Principles of Genetics and Cytogenetics	2	0	1	5	3
7	BSHC 7116	Introductory Microbiology	1	0	1	4	2
8	BSHC 7117	Fundamentals of Food Technology	1	0	1	4	2
9	BSHC 4110	NCC/ NSS	0	0	1	1	1
10	BSHC 4111	Physical Education	0	0	1	1	1
		TOTAL	12	0	10	38	22

II Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	BSHC 7120	Tropical and Subtropical Fruits	2	0	1	5	3
2	BSHC 7121	Tropical and Subtropical Vegetables	2	0	1	5	3
3	BSHC 7122	Principles of Plant Breeding	2	0	1	5	3
4	BSHC 7123	Soil Fertility and Nutrient Management	1	0	1	4	2
5	BSHC 7124	Water Management in Horticultural Crops	2	0	1	5	3
6	BSHC 7125	Plant Propagation and Nursery Management	1	0	1	4	2
7	BSHC 7126	Environmental Studies and Disaster Management	2	0	1	5	3
8	BSHC 7127	Growth and Development of Horticultural Crops	1	0	1	4	2
9	BSHC 7128	Elementary Statistics and Computer Application	2	0	1	5	3
10	BSHC 4128	Information and Communication technology	1	0	1	4	2
		TOTAL	16	0	10	46	26

III Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	BSHC 7210	Fundamentals of Plant Pathology	2	0	1	5	3
2	BSHC 7211	Fundamentals of Entomology	2	0	1	5	3
3	BSHC 7212	Temperate Vegetable Crops	1	0	1	4	2
4	BSHC 7213	Nematode pests of horticultural crops and their Management	1	0	1	4	2
5	BSHC 7214	Diseases of fruit. Plantation, Medicinal and Aromatic Crops	2	0	1	5	3
6	BSHC 7215	Temperate Fruit Crops	1	0	1	4	2

7	BSHC 7216	Weed Management in Horticultural Crops	1	0	1	4	2
8	BSHC 7217	Commercial Floriculture	2	0	1	5	3
9	BSHC 7218	Elementary Plant Biotechnology	1	0	1	4	2
		TOTAL	13	0	9	40	22

IV Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	BSHC 7220	Soil, Water and plant Analysis	1	0	1	4	2
2	BSHC 7221	Spices and Condiments	2	0	1	5	3
3	BSHC 7222	Ornamental Horticulture	1	0	1	4	2
4	BSHC 7223	Plantation Crops	1	0	1	4	2
5	BSHC 7224	Breeding of Fruit and Plantation Crops	2	0	1	5	3
6	BSHC 7225	Farm Power and Machinery	1	0	1	4	2
7	BSHC 7226	Medicinal and Aromatic crops	2	0	1	5	3
8	BSHC 7227	Precision Farming and Protected Cultivation	2	0	1	5	3
9	BSHC 7228	Dry land Horticulture	1	0	1	4	2
		TOTAL	13	0	9	40	22

V Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	BSHC 7310	Organic Farming	2	0	1	5	3
2	BSHC 7311	Introduction to Major Field Crops	1	0	1	4	2

3	BSHC 7312	Insect Pests of Fruit, Plantation, Medicinal & Aromatic Crops	2	0	1	5	3
4	BSHC 7313	Introductory Agroforestry	1	0	1	4	2
5	BSHC 7314	Breeding of Vegetable, Tuber and Spice Crops	2	0	1	5	3
6	BSHC 7315	Diseases of Vegetables, Ornamentals and Spice Crops	2	0	1	5	3
7	BSHC 7316	Orchard and Estate Management	1	0	1	4	2
8	BSHC 7317	Agro-meteorology and Climate Change	1	0	1	4	2
9	BSHC 7318	Potato and tuber crops	1	0	1	4	2
		TOTAL	13	0	9	40	22

VI Semester

Sl · N o	Course Code	Course Title	L	T	P	Contac t Hrs/W k	Credits
1	BSHC 7320	Apiculture, Sericulture and Lac culture	1	0	1	4	2
2	BSHC 7321	Insect Pests of Vegetable, Ornamental and Spice Crops	2	0	1	5	3
3	BSHC 7322	Postharvest Management of Horticultural Crops	2	0	1	5	3
4	BSHC 7323	Seed production of Vegetable, Tuber and Spice Crops	2	0	1	5	3
5	BSHC 7324	Breeding and Seed Production of Flower and Ornamental Plants	2	0	1	5	3
6	BSHC 7325	Processing of Horticultural Crops	1	0	2	7	3
7	BSHC 1326	Horti-Business Management	2	0	0	2	2
8	BSHC 7327	Entrepreneurship Development and Business Management	1	0	1	4	2
9	BSHC 7328	Fundamentals of Extension Education	1	0	1	4	2

		TOTAL	14	0	9	41	23
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VII Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits
1	BSHC 2410	STUDENT READY- Placement in Villages 1. General Orientation and on campus Training by different faculties. 2. Village attachment	0	0	10	20	10
2	BSHC 2411	STUDENT READY - Placement in Industries 1. Agro Industrial tie up 2. Plantation Internship	0	0	10	20	10
3	BSHC 4410	Educational tour	0	0	2	6	2
		TOTAL	0	0	22	46	22

VIII Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	BSHC 242#	Modules for Experiential Learning programme-I	0	0	10	30	10
2	BSHC 242#	Modules for Experiential Learning programme-II	0	0	10	30	10
		TOTAL	0	0	20	60	20

Module course

Modules for Experiential Learning programme: A student has to register 20 credits opting for two modules of (0+10) credits each (total 20 credits) from the package of modules in the VIII semester.

Sl. No	Course Code	Title of the module	L	T	P	Contact Hrs / Wk	Credits
1.	BSHC 2421	Commercial Horticulture	0	0	10	30	10

2.	BSHC 2422	Processing of Fruits and Vegetables for Value Addition	0	0	10	30	10
3.	BSHC 2423	Floriculture and Landscape Architecture	0	0	10	30	10
4.	BSHC 2424	Mushroom culture	0	0	10	30	10
5.	BSHC 2425	Bee keeping	0	0	10	30	10

SEMESTER WISE CREDIT LOAD

S. No.	SEMESTER	L	T	P	C
1.	SEMESTER I	12	0	10	22
2.	SEMESTER II	16	0	10	26
3.	SEMESTER III	13	0	9	22
4.	SEMESTER IV	13	0	9	22
5.	SEMESTER V	13	0	9	22
6.	SEMESTER VI	14	0	9	23
7.	SEMESTER VII	0	0	22	22
8.	SEMESTER VIII	0	0	20	20
	TOTAL	81	0	98	179

**Total credits with Non-Credit courses (6 credits) as recommended by ICAR =
173+6* =179**

II Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	BSAG 7120	Fundamentals of Genetics	2	0	1	5	3
2	BSAG 7121	Agricultural Microbiology	1	0	1	4	2
3	BSAG 7122	Soil and Water Conservation Engineering	1	0	1	4	2
4	BSAG 7123	Fundamentals of Crop Physiology	1	0	1	4	2
5	BSAG 1124	Fundamentals of Agricultural Economics	2	0	0	2	2
6	BSAG 7125	Fundamentals of Plant Pathology	3	0	1	6	4
7	BSAG 7126	Fundamentals of Entomology	3	0	1	6	4
8	BSAG 7127	Fundamentals of Agricultural Extension Education	2	0	1	5	3
9	BSAG 7128	Communication Skills and Personality Development	1	0	1	4	2
		TOTAL	16	0	8	40	24

III Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	BSAG 7210	Crop Production Technology – I (Kharif Crops)	1	0	1	4	2
2	BSAG 7211	Fundamentals of Plant Breeding	2	0	1	5	3
3	BSAG 7212	Agricultural Finance and Cooperation	2	0	1	5	3
4	BSAG 7213	Principles of Food Science and Nutrition	2	0	0	2	2
5	BSAG 7214	Farm Machinery and Power	1	0	1	4	2
6	BSAG 7215	Production Technology for Vegetables and Spices	1	0	1	4	2
7	BSAG 7216	Environmental Studies and Disaster Management	2	0	1	5	3
8	BSAG 7217	Livestock and Poultry Management	3	0	1	6	4
9	BSAG 7218	Statistical Methods and Designs	1	0	1	4	2
		TOTAL	15	0	8	39	23

IV Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	BSAG 7220	Crop Production Technology – II (Rabi Crops)	1	0	1	4	2
2	BSAG 7221	Production Technology for Ornamental Crops, MAPs and Landscaping	1	0	1	4	2
3	BSAG 7222	Renewable Energy and Green Technology	1	0	1	4	2
4	BSAG 1223	Problematic Soils and their Management	2	0	0	2	2
5	BSAG 7224	Production Technology for Fruits and Plantation Crops	1	0	1	4	2
6	BSAG 7225	Principles of Seed Technology	1	0	2	7	3
7	BSAG 1226	Farming System and Sustainable Agriculture	1	0	0	1	1
8	BSAG 7227	Agricultural Marketing Trade and Prices	2	0	1	5	3
9	BSAG 7228	Introductory Agro-Meteorology and Climate Change	1	0	1	4	2
10	BSAG 7229	Agri-Informatics	1	0	1	4	2
11	PEAG 722#	Elective Course	2	0	1	5	3
		TOTAL	14	0	10	44	24

Elective Course

V Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	BSAG 7310	Principles of Integrated Pest and Disease Management	2	0	1	5	3

2	BSAG 7311	Manures, Fertilizers and Soil Fertility Management	2	0	1	5	3
3	BSAG 7312	Pests of Crops and Stored Grain and their Management	2	0	1	5	3
4	BSAG 7313	Diseases of Field and Horticultural Crops and their Management-I	2	0	1	5	3
5	BSAG 7314	Crop Improvement-I (Kharif crops)	1	0	1	4	2
6	BSAG 7315	Entrepreneurship Development and Business Communication	1	0	1	4	2
7	BSAG 7316	Geoinformatics and Nano–technology and Precision Farming	1	0	1	4	2
8	BSAG 2317	Practical Crop Production - I (Kharif crops)	0	0	2	2	2
9	BSAG 1318	Intellectual Property Rights	1	0	0	1	1
10	PEAG 731#	Elective course	2	0	1	5	3
		TOTAL	14	0	10	44	24

Elective Course

VI Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	BSAG 7320	Rainfed Agriculture and Watershed Management	1	0	1	4	2
2	BSAG 7321	Protected Cultivation and Secondary Agriculture	1	0	1	4	2
3	BSAG 7322	Diseases of Field and Horticultural Crops and their Management-II	2	0	1	5	3
4	BSAG 7323	Post-harvest Management and Value Addition of Fruits and Vegetables	1	0	1	4	2
5	BSAG 7324	Management of Beneficial Insects	1	0	1	4	2
6	BSAG 7325	Crop Improvement - II (Rabi crops)	1	0	1	4	2
7	BSAG 7326	Practical Crop Production - II (Rabi crops)	0	0	2	6	2
8	BSAG 7327	Principles of Organic Farming	1	0	1	4	2
9	BSAG 7328	Farm Management, Production and Resource Economics	1	0	1	4	2
10	PEAG 732#	Elective Course	2	0	1	5	3
		TOTAL	11	0	11	44	22

Elective Course

VII Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	BSAG 2410	Rural Agricultural Work Experience and Agro- industrial Attachment (RAWE &AIA)					
		Activities					
		General orientation & On campus training by different faculties	0	0	1	1	1
		Village attachment	0	0	8	8	8
		Unit attachment in University / College / KVKs / Research Stations	0	0	5	5	5
		Plant Clinic	0	0	2	2	2
		Agro-Industrial Attachment	0	0	3	3	3
		Project Report Preparation, Presentation and Evaluation	0	0	1	1	1
		Total for RAWE & AIA	0	0	20	20	20
2	BSAG 4410	Educational Tour**	0	0	2	2	2
		TOTAL	0	0	20+2**	22	20+2**

VIII Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	BSAG 242X	Modules for Skill Development Entrepreneurship-I	0	0	10	30	10
2	BSAG 242X	Modules for Skill Development Entrepreneurship-II	0	0	10	30	10
		TOTAL	0	0	20	60	20

X Module course

Modules for Skill Development and Entrepreneurship: A student has to register 20 credits opting for two modules of (0+10) credits each (total 20 credits) from the package of modules in the VIII semester.

Sl. No	Course Code	Title of the module	L	T	P	Contact Hrs / Wk	Credits
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1.	BSAG 2422	Mushroom Cultivation Technology	0	0	10	30	10
2.	BSAG 2424	Poultry Production Technology	0	0	10	30	10
3.	BSAG 2427	Food Processing	0	0	10	30	10
4.	BSAG 242A	Commercial Sericulture	0	0	10	30	10
5.	BSAG 242B	Commercial Bee Keeping	0	0	10	30	10
		TOTAL	0	0	20	60	20

ELECTIVE COURSES

S. No.	Course Code	Courses	L	T	P	C
1.	PEAG 7220	Agri-Business Management	2	0	1	3
2.	PEAG 7221	Landscaping	2	0	1	3
3.	PEAG 7222	Agricultural Journalism	2	0	1	3
4.	PEAG 7223	Agrochemicals	2	0	1	3
5.	PEAG 7310	Commercial Plant Breeding	2	0	1	3
6.	PEAG 7311	Protected Cultivation	2	0	1	3
7.	PEAG 7312	Hi-tech Horticulture	2	0	1	3
8.	PEAG 7313	Bio-pesticides and Bio-fertilizers	2	0	1	3
9.	PEAG 7320	Micro Propagation Technologies	2	0	1	3
10.	PEAG 7321	Weed Management	2	0	1	3
11.	PEAG 7322	System Simulation and Agro-Advisory	2	0	1	3
12.	PEAG 7323	Food Safety and Standards	2	0	1	3

SEMESTER WISE CREDIT LOAD

S. No.	SEMESTER	L	T	P	C
1.	SEMESTER I	15+1**	0	6+2**	21+3**
2.	SEMESTER II	16	0	8	24
3.	SEMESTER III	15	0	8	23
4.	SEMESTER IV	14	0	10	24
5.	SEMESTER V	14	0	10	24
6.	SEMESTER VI	13	0	11	24
7.	SEMESTER VII	0	0	20+2**	20+2**
8.	SEMESTER VIII	0	0	20	20
	TOTAL	87+1**	0	93+4**	180+5**

Total credits with Non-Credit courses (5 credits) as recommended by ICAR = 180+5* =185