

## B.SC. (HONS.) AGRICULTURE COURSE STRUCTURE

4 years; 192 credits

### Semester I

No.	Course Code	Course Title	L-T-P	Credits
1		Agricultural Heritage	1-0-0	1(1+0)
2		Fundamentals of Agronomy I	1-0-2	2(1+1)
3		Fundamentals of Soil Science I	1-0-2	2(1+1)
4		Fundamentals of Agricultural Entomology I	1-0-2	2(1+1)
5		Fundamentals of Plant Pathology I	1-0-2	2(1+1)
6		Fundamentals of Plant Biochemistry and Analytical Techniques	2-0-2	3(2+1)
7		Fundamentals of Horticulture	1-0-2	2(1+1)
8		Introduction to Forestry	1-0-2	2(1+1)
9		Rural Sociology and Educational Psychology	2-0-0	2(2+0)
10		Fundamentals of Crop Physiology	1-0-2	2(1+1)
11		Comprehension and Communication Skills in English	1-0-2	2(1+1)
12		Elementary Mathematics and fundamentals of Statistics	2-0-0	2(2+0)
13		Design Thinking	2-0-0	2(2+0)
		<b>Total</b>	<b>17-0-18</b>	<b>26(17+9)</b>

### Semester II

No.	Course Code	Course Title	L-T-P	Credits
1		Fundamentals of Agronomy II	1-0-2	2(1+1)
2		Crop Production Technology I	1-0-2	2(1+1)
3		Fundamentals of Soil Science II	1-0-2	2(1+1)
4		Fundamentals of Agricultural Entomology II	1-0-2	2(1+1)
5		Fundamentals of Plant Pathology II	2-0-0	2(2+0)
6		Fundamentals of Genetics & Molecular Biology	2-0-2	3(2+1)
7		Fundamentals of Agricultural Economics	2-0-0	2(2+0)
8		Fundamentals of Agricultural Extension Education	1-0-2	2(1+1)
9		Soil and Water Conservation	1-0-2	2(1+1)
10		Livestock and Poultry Management	1-0-2	2(1+1)
11		Advanced Statistical Analysis	2-0-0	2(2+0)
12		Interdisciplinary Project	0-0-4	3(0+3)
		<b>Total</b>	<b>15-0-20</b>	<b>26(15+11)</b>

### Semester III

No.	Course Code	Course Title	L-T-P	Credits
1		Crop Production Technology II	1-0-2	2(1+1)
2		Fundamentals of Plant Breeding	2-0-2	3(2+1)
3		Agricultural Microbiology	1-0-2	2(1+1)
4		Pests of Crops and Storage and their Management	2-0-2	3(2+1)
5		Diseases of Field and Horticultural Crops and their Management I	1-0-2	2(1+1)
6		Agricultural Finance and Co-operation	2-0-2	3(2+1)
7		Communication Skills and Personality Development	1-0-2	2(1+1)
8		Crop Protection Chemicals and their applications	1-0-2	2(1+1)
9		Production Technology for Vegetables and Spices	1-0-2	2(1+1)
10		Farm Machinery and Power	1-0-2	2(1+1)
11		Community Service	0-0-0	1(0+1)
12		Venture Ideation	2-0-0	2(2+0)
		<b>Total</b>	<b>15-0-20</b>	<b>26(15+11)</b>

### Semester IV

No.	Course Code	Course Title	L-T-P	Credits
1		Agricultural Chemistry & Toxicology	1-0-2	2(1+1)
2		Agro-meteorology and Climate Change	1-0-2	2(1+1)
3		Principles of Seed Technology	2-0-2	3(2+1)
4		Crop Improvement I	1-0-2	2(1+1)
5		Manures, Fertilizers and Soil Fertility Management	1-0-2	2(1+1)
6		Diseases of Field and Horticultural Crops and their Management II	1-0-2	2(1+1)
7		Agricultural Marketing, Trade and Prices	2-0-2	3(2+1)
8		Vertical Farming	2-0-2	3(2+1)
9		Production Technology of Fruit and Plantation Crops	1-0-2	2(1+1)
10		Human Values and Professional Ethics	2-0-0	2(2+0)
11		Elective I	1-0-2	2(1+1)
		<b>Total</b>	<b>15-0-20</b>	<b>25(15+10)</b>

### Semester V

No.	Course Code	Course Title	L-T-P	Credits
1		Crop Production Technology III	1-0-2	2(1+1)
2		Rainfed Agriculture and Watershed Management	1-0-2	2(1+1)
3		Crop Improvement II	1-0-2	2(1+1)
4		Principles and Practices of Agricultural Biotechnology	1-0-2	2(1+1)
5		Problematic Soils and their Management	1-0-2	2(1+1)
6		Principles of Integrated Pest and Disease Management	1-0-2	2(1+1)
7		Farm Management, Production and Resource Economics	1-0-2	2(1+1)
8		Entrepreneurship Development and Business Communication	2-0-0	2(2+0)
9		Production Technology of Ornamental Crops, MAP and Landscaping	1-0-2	2(1+1)
10		Protected Cultivation and Secondary Agriculture	1-0-2	2(1+1)
11		Remote Sensing, Drones and Applications	1-0-2	2(1+1)
12		Elective II	1-0-2	2(1+1)
		<b>Total</b>	<b>13-0-22</b>	<b>24(13+11)</b>

### Semester VI

No.	Course Code	Course Title	L-T-P	Credits
1		Principles of Organic Farming	1-0-2	2(1+1)
2		Farming System and Sustainable Agriculture	1-0-2	2(1+1)
3		Robotics, AI & ML in Agriculture	2-0-2	3(2+1)
4		Intellectual Property Rights	1-0-0	1(1+0)
5		Management of Beneficial Insects	1-0-2	2(1+1)
6		Geo-informatics and Nanotechnology for Precision Farming	1-0-2	2(1+1)
7		Computer Applications and Agriculture Informatics	1-0-2	2(1+1)
8		Post-harvest Management and Value-addition of Fruits and Vegetables	1-0-2	2(1+1)
9		Renewable Energy and Green Technology	1-0-2	2(1+1)
10		Principles of Food Science and Nutrition	2-0-0	2(2+0)
11		Environmental Studies and Disaster Management	1-0-2	2(1+1)
12		Supply Chain Management in Agriculture	1-0-0	1(1+0)
13		Elective III	1-0-2	2(1+1)
		<b>Total</b>	<b>15-0-20</b>	<b>25(15+10)</b>

### Semester VII

No.	Course Code	Course Title	L-T-P	Credits
1		Rural Agricultural Work Experience and Agro Industrial Attachment	0-0-20	20(0+20)
		<b>Total</b>	<b>0-0-20</b>	<b>20(0+20)</b>

### Semester VIII

No.	Course Code	Course Title (choose any 2)	L-T-P	Credits
1		Production of Bio-agents and Botanical pesticides	0-0-10	10(0+10)
2		Commercial Seed Production	0-0-10	10(0+10)
3		Mushroom Cultivation	0-0-10	10(0+10)
4		Soil, Plant and Water Testing	0-0-10	10(0+10)
5		Commercial Beekeeping	0-0-10	10(0+10)
6		Organic Production	0-0-10	10(0+10)
7		Commercial Sericulture	0-0-10	10(0+10)
8		Plant Tissue Culture	0-0-10	10(0+10)
		<b>Total</b>	<b>0-0-20</b>	<b>20(0+20)</b>

### Elective I

No.	Course Code	Course Title (choose any 1)	L-T-P	Credits
1		Agribusiness Management	1-0-2	2(1+1)
2		Agrochemicals	1-0-2	2(1+1)
3		Commercial Plant Breeding	1-0-2	2(1+1)
4		Landscaping	1-0-2	2(1+1)

### Elective II

No.	Course Code	Course Title (choose any 1)	L-T-P	Credits
1		Food Safety and Standards	1-0-2	2(1+1)
2		Biopesticides & Biofertilizers	1-0-2	2(1+1)
3		Protected Cultivation	1-0-2	2(1+1)
4		Hi-tech. Horticulture	1-0-2	2(1+1)

### Elective III

No.	Course Code	Course Title (choose any 1)	L-T-P	Credits
1		Weed Management	1-0-2	2(1+1)
2		System Simulation and Agro-advisory	1-0-2	2(1+1)
3		Agricultural Journalism	1-0-2	2(1+1)
4		Composition cum Duck/ (and) Quail/ (and) Rabbit culture	1-0-2	2(1+1)