

1st Semester

S No	Course Title	Credit hours
1	Fundamentals of Horticulture	2 (1+1)
2	Fundamentals of Genetics	3 (2+1)
3	Fundamentals of Soil Science	3 (2+1)
4	Introduction to Forestry	2 (1+1)
5	Comprehension & Communication Skills in English	2 (1+1)
6	Fundamentals of Agronomy	3 (2+1)
7	Introductory Biology*/Elementary Mathematics*	2 (1+1)/ 2(2+0)*
8	Agricultural Heritage*	1(1+0)*
9	Rural Sociology & Educational Psychology	2 (2+0)
10	Human Values & Ethics (non-gradual)	1(1+0)**
11	NSS/NCC/Physical Education & Yoga Practices**	2 (0+2)**
Total 17+04*/03*+03**		

***Remedial, **Optional**

2nd Semester

S No	Course Title	Credit hours
1	Fundamentals of Plant Biochemistry and Biotechnology	3 (2+1)
2	Agricultural Microbiology	2 (1+1)

S No	Course Title	Credit hours
3	Soil and Water Conservation Engineering	2 (1+1)
4	Fundamentals of Crop Physiology	2 (1+1)
5	Fundamentals of Agricultural Economics	2 (2+0)
6	Fundamentals of Plant Pathology	4 (3+1)
7	Fundamentals of Entomology	4 (3+1)
8	Fundamentals of Agricultural Extension Education	3 (2+1)
9	Communication Skills and Personality Development	2 (1+1)
10	Irrigation Water Management	2 (1+1)
Total 26 (17+9)		

3rd Semester

S No	Course Title	Credit hours
1	Crop Production Technology – I (Kharif Crops)	2 (1+1)
2	Fundamentals of Plant Breeding	3 (2+1)
3	Agricultural Finance and Cooperation	3 (2+1)
4	Agri- Informatics	2 (1+1)
5	Farm Machinery and Power	2 (1+1)
6	Production Technology for Vegetables and Spices	2 (1+1)

S No	Course Title	Credit hours
7	Environmental Studies and Disaster Management	3 (2+1)
8	Statistical Methods	2 (1+1)
9	Livestock and Poultry Management	4 (3+1)
Total 23 (14+9)		

4th Semester

S No	Course Title	Credit hours
1	Crop Production Technology –II (Rabi Crops)	2 (1+1)
2	Production Technology for Ornamental Crops, MAP and Landscaping	2 (1+1)
3	Renewable Energy and Green Technology	2 (1+1)
4	Problematic Soils and their Management	2 (2+0)
5	Production Technology for Fruit and Plantation Crops	2 (1+1)
6	Principles of Seed Technology	3 (1+2)
7	Farming System & Sustainable Agriculture	1 (1+0)
8	Agricultural Marketing Trade & Prices	3 (2+1)
9	Introductory Agro-meteorology & Climate Change	2 (1+1)
10	Elective courses	3 credits
Total 19 (11+8) + 3 Credit Hours		

5th Semester

S No	Course Title	Credit hours
1	Principles of Integrated Pest and Disease Management	3(2+1)
2	Manures, Fertilizers and Soil Fertility Management	3(2+1)
3	Pests of Crops and Stored Grain and their Management	3(2+1)
4	Diseases of Field and Horticultural Crops and their Management -I	3(2+1)
5	Crop Improvement-I (Kharif Crops)	2 (1+1)
6	Entrepreneurship Development and Business Communication	2 (1+1)
7	Geo-informatics and Nano-technology and Precision Farming	2 (1+1)
8	Practical Crop Production – I (Kharif crops)	2 (0+2)
9	Intellectual Property Rights	1(1+0)
10	Elective Course	3 credits
Total 21 (12+9) + 3 Credit Hours		

6th Semester

S No	Course Title	Credit hours
1	Rainfed Agriculture & Watershed Management	
2	Protected Cultivation and Secondary Agriculture	2 (1+1)
3	Diseases of Field and Horticultural Crops and their Management-II	3(2+1)
4	Post-harvest Management and Value Addition of Fruits and vegetables	2 (1+1)

S No	Course Title	Credit hours
5	Management of Beneficial Insects	2 (1+1)
6	Crop Improvement-II (Rabi crops)	2 (1+1)
7	Practical Crop Production –II (Rabi crops)	2 (0+2)
8	Principles of Organic Farming	2 (1+1)
9	Farm Management, Production & Resource Economics	2 (1+1)
10	Principles of Food Science and Nutrition	2 (2+0)
11	Elective Course	3 Credits
Total 21 (11+10) + 3 credits Hours		

7th Semester

S No	Course Title	Credit hours
Rural Agricultural Work Experience (RAWEx) and Agro Industrial Attachment (AIA)		
1	Crop Production	5 (0+5)
2	Crop Protection	4 (0+4)
3	Rural Economics	3 (0+3)
4	Extension Programme	4 (0+4)
5	Research Station / KVK /DAATT Centre activities and attachment to Agro based industries	4 (0+4)

S No	Course Title	Credit hours
		20(0+20)

Rural Awareness Works Experience (RAWE) and Agro-Industrial Attachment (AIA)

The programme will be undertaken by the students during the VII semester for a total duration of 20 weeks with a weightage of 0+20 credit hours in two parts viz., RAWE and AIA. It will consist of general orientation and on campus training by different faculties followed by village attachment/unit attachment in University/College/KVK or a Research station. The students will be attached with the agro-industries to get an experience of the industrial environment and working. Weightage in terms of credit hours will be given depending upon the duration of stay of students in villages/agro-industries. At the end of RAWE/AIA, the students will be given one week for project report preparation, presentation and evaluation. The students would be required to record their observations in field and agro-industries on daily basis and will prepare their project report based on these observations.

8th Semester

S No	Course Title	Credit hours
1	Experiential Learning Programme (ELP)	20 (0+20)

Experiential Learning Programme (ELP)

This programme will be undertaken by the students preferably during the VIII semester for a total duration of 24 weeks with a weightage of 0+20 credit hours. The students will register for any of two modules (of 0+10 credit hours each) listed below :

- **1. Production Technology for Bio-agents and Bio-fertilizers**
- **2. Seed Production and Technology**
- **3. Mushroom Cultivation Technology**
- **4. Soil, Plant, Water and Seed Testing**
- **5. Poultry Production Technology**
- **6. Hybrid Seed Production Technologies**
- **7. Floriculture and Landscaping**
- **8. Food Processing**
- **9. Commercial Horticulture**
- **10. Agriculture Waste Management**
- **11. Organic Production Technology**
- **12. Commercial Sericulture**