

**ACADEMIC PROGRAMME**  
**Semester wise course and credits Allocation**

Sl. No.	Course Title	Credit hours	Total credit hours
<b>First year</b>			
<b>I Semester</b>			
1	Deeksharambh (Induction cum Foundation course)	1 week (NG) Non-gradial	
2	Skill Enhancement course-I*	2(0+2)	
3	Skill Enhancement course-II*	2(0+2)	
4	Communication Skills	2(1+1)	
5	Farming based livelihood systems	3(2+1)	
6	Rural Sociology and Educational Psychology	2(2+0)	
7	Fundamentals of Agronomy	3(2+1)	
8	Fundamentals of Soil Science	3(2+1)	
9	Fundamentals of Horticulture	3(2+1)	
10	National Service Scheme (NSS-I)/ National Cadet Corps (NCC-I)	1(0+1)	
11	Introductory mathematics (need based)	1(1+0) Non-gradial	
<b>II Semester</b>			
1	Skill Enhancement course-III*	2(0+2)	
2	Skill Enhancement course-IV*	2(0+2)	
3	Personality Development	2(1+1)	
4	Environmental Studies and Disaster Management	3(2+1)	
5	Soil Fertility Management	3(2+1)	
6	Fundamentals of Entomology	3(2+1)	
7	Livestock and Poultry Management	2(1+1)	
8	Fundamentals of Plant Pathology	3(2+1)	
9	NCC-II/NSS-II	1(0+1)	
<b>Second year</b>			
<b>III Semester</b>			
1	Skill Enhancement course-V*	2(0+2)	
2	Entrepreneurship Development and Business Communication	3(2+1)	
3	Physical Education, First Aid, Yoga Practices and Meditation	2(0+2)	
4	Principles of Genetics	3(2+1)	
5	Crop Production Technology-I (Kharif crops)	3(1+2)	
6	Production Technology of Fruit and Plantation Crops	2(1+1)	
7	Fundamentals of Extension Education	2(1+1)	
8	Fundamentals of Nematology	2(1+1)	
9	Principles and Practices of Natural Farming	2(1+1)	

<b>IV Semester</b>		
1	Skill Enhancement course-VI*	2(0+2)
2	Agricultural Informatics and Artificial Intelligence	3(2+1)
3	Production Technology of Vegetables and Spices	2(1+1)
4	Principles of Agricultural Economics and Farm Management	2(2+0)
5	Crop Production Technology-II (Rabi Crops)	3(1+2)
6	Farm Machinery and Power	2(1+1)
7	Water Management	2(1+1)
8	Problematic Soils and their management	2(1+1)
9	Basics of Plant Breeding	3(2+1)
<b>Third year</b>		
<b>V Semester</b>		
1	Agricultural Marketing and Trade	3(2+1)
2	Introduction to Agro-meteorology	2(1+1)
3	Fundamentals of Crop Physiology	3(2+1)
4	Pest management in Crops and Stored Grains	3(2+1)
5	Diseases of Field & Horticultural Crops & their Management	3(2+1)
6	Crop Improvement (kharif crops) - I	2(1+1)
7	Weed Management	2(1+1)
8	Ornamental Crops, MAPs and Landscaping	2(1+1)
9	Introductory Agro forestry	2(1+1)
<b>VI Semester</b>		
1	Fundamentals of Agri Biotechnology	3(2+1)
2	Basic and Applied Agril Statistics	3(2+1)
3	Crop Improvement (Rabi crops) - II	2(1+1)
4	Renewable energy in Agriculture and Allied Sector	2(1+1)
5	Dryland agriculture/Rainfed agriculture and watershed management	2(1+1)
6	Agricultural Microbiology and Phyto - remediation	2(1+1)
7	Agricultural Finance & Cooperation	2(1+1)
8	Essentials of Plant Biochemistry	3(2+1)
9	Fundamentals of Seed Science & Technology	2(1+1)
<b>Fourth year</b>		
<b>VII Semester</b>		
1	5 Elective Courses (major or minor) each of 4 (3+1) credits for B.Sc. (Hons) Agriculture degree	<b>20(15+5)</b>
<b>VII Semester</b>		

1	For B.Sc. (Hons) Agriculture Degree Student READY: RAWE/ Industrial Attachment /Experiential Learning / Hands-on Training/ Project Work / Internship		<b>20 credits</b>
		<b>Total</b>	<b>167</b>
	<b>*Online courses</b>	<b>10</b>	<b>10</b>
		<b>Grand Total</b>	<b>167+10*</b>

\*From the bouquet of Skill Enhancement Course (SEC) modules

**Department/section wise course breakup**

Sl. No.	Course title	Credit Hours	Total
<b>Agronomy</b>			
1	Fundamentals of Agronomy	3 (2+1)	<b>22(11+11)</b>
2	Farming based livelihood systems	3 (2+1)	
3	Crop Production Technology-I (Kharif Crops)	3 (1+2)	
4	Crop Production Technology-II (Rabi Crops)	3 (1+2)	
5	Water Management	2 (1+1)	
6	Weed Management	2 (1+1)	
7	Introductory Agro forestry	2 (1+1)	
8	Dryland agriculture/ Rainfed agriculture and watershed management	2 (1+1)	
9	Principles and Practices of Natural Farming	2 (1+1)	
<b>Soil Science</b>			
1	Fundamentals of Soil Science	3 (2+1)	<b>8(5+3)</b>
2	Soil Fertility Management	3 (2+1)	
3	Problematic Soils and their management	2 (1+1)	
<b>Horticulture</b>			
1	Fundamentals of Horticulture	3 (2+1)	<b>9(5+4)</b>
2	Production Technology of Fruit and Plantation Crops	2 (1+1)	
3	Production Technology of Vegetables and Spices	2 (1+1)	
4	Ornamental Crops, MAPs, and Landscaping	2 (1+1)	
<b>Genetics and Plant Breeding</b>			
1	Principles of Genetics	3 (2+1)	<b>12(7+5)</b>
2	Basics of Plant Breeding	3 (2+1)	
3	Crop Improvement (Kharif crops) - I	2 (1+1)	
4	Crop Improvement (Rabi crops)- II	2 (1+1)	
5	Fundamentals of Seed Science and Technology	2 (1+1)	
<b>Entomology</b>			
1	Fundamentals of Entomology	3 (2+1)	<b>6(4+2)</b>
2	Pest management in Crops and Stored Grains	3 (2+1)	
<b>Plant Pathology</b>			
1	Fundamentals of Plant Pathology	3 (2+1)	

2	Diseases of Field & Horticultural Crops & their Management	3 (2+1)	<b>8(5+3)</b>
3	Agricultural Microbiology and Phyto-remediation	2 (1+1)	
<b>Extension Education</b>			
1	Rural Sociology and Educational Psychology	2 (2+0)	<b>8(5+3)</b>
2	Fundamentals of Extension Education	2 (1+1)	
3	Communication skills	2 (1+1)	
4	Personality development	2 (1+1)	
<b>Agricultural Meteorology</b>			
1	Environmental Studies and Disaster mgt.	3 (2+1)	<b>5 (3+2)</b>
2	Introduction to Agro-meteorology	2 (1+1)	
<b>Agricultural Economics</b>			
1	Principles of Agricultural Economics and Farm Management	2 (2+0)	<b>9(6+3)</b>
2	Entrepreneurship Development and Business Communication	3 (2+1)	
3	Agricultural Marketing and Trade	2 (1+1)	
4	Agricultural Finance & Cooperation	2 (1+1)	
<b>Agricultural Statistics</b>			
1	Agricultural Informatics and Artificial Intelligence	3 (2+1)	<b>6(4+2)</b>
2	Basic and Applied Agril Statistics	3 (2+1)	
3	Introductory Mathematics	1 (1+0)	<b>Non gradial</b>
<b>Agricultural Engineering</b>			
1	Farm Machinery and Power	2 (1+1)	<b>4 (2+2)</b>
2	Renewable energy in Agriculture and Allied Sector	2 (1+1)	
<b>Nematology</b>			
1	Fundamentals of Nematology	2 (1+1)	<b>2 (1+1)</b>
<b>Biochemistry</b>			
1	Essentials of Plant Biochemistry	3 (2+1)	<b>3 (2+1)</b>
<b>Crop Physiology</b>			
1	Fundamentals of Crop Physiology	3 (2+1)	<b>3 (2+1)</b>
<b>Animal Husbandry</b>			
1	Livestock and poultry Management	2 (1+1)	<b>2 (1+1)</b>
<b>Agricultural Bio-technology</b>			
1	Fundamentals of Agri Biotechnology	3 (2+1)	<b>3 (2+1)</b>
<b>Students' Welfare</b>			
1	NCC/NSS	1 (0+1)	<b>1 (0+1)</b>
2	NCC/NSS	1 (0+1)	<b>1 (0+1)</b>
3	Physical Education, First Aid and Yoga Practices	2 (0+2)	<b>2 (0+2)</b>
4	Study Tour	2 (0+2)	<b>2 (0+2)</b> <b>Non gradial</b>

<b>*Elective Courses (Indicative)</b>		
1	Agri-Business Management	4 (3+1)
2	Management of natural resources	4 (3+1)
3	Agrochemicals	4 (3+1)
4	Agricultural Journalism	4 (3+1)
5	Landscaping	4 (3+1)
6	Commercial Plant breeding	4 (3+1)
7	Food safety and standards	4 (3+1)
8	Bioformulation and Nano formulation	4 (3+1)
9	Biopesticides and Biofertilizers	4 (3+1)
10	System Simulation and Agro advisory	4 (3+1)
11	Hi-tech Horticulture	4 (3+1)
12	Protected cultivation	4 (3+1)
13	Climate Resilient Agriculture	4 (3+1)
14	Biotechnology of Crop Improvement	4 (3+1)
15	Geoinformatics and Remote Sensing, precision farming	4 (3+1)
16	Micro-propagation Technologies	4 (3+1)
17	Commercial Seed Production	4 (3+1)
18	Principles and Practices of Organic Farming/ Conservation Agriculture	4 (3+1)
19	Food Science and Nutrition	4 (3+1)
20	Post-Harvest Technology and Value Addition	4 (3+1)
<b>**Skill enhancement courses (SECs)</b>		
1	SEC-I	2 (0+2)
2	SEC-II	2 (0+2)
3	SEC-III	2 (0+2)
4	SEC-IV	2 (0+2)
5	SEC-V	2 (0+2)
6	SEC-VI	2 (0+2)

**20\*(15+5)  
5\*Elective  
Courses**

**12 (0+12)**

**\*Host institution may add more courses into this list**

**\*\* SEC will be decided by host institution depending on strength**