

**B.Sc. (Hons) Agriculture - 2022-2026 Batch Onwards
REVISED CURRICULUM**

I Year: Semester I

S.No.	Discipline	Course Code	Name of the Course	Credits
Core Courses				
1	HOR	21HO1251	Fundamentals of Horticulture	3(2+1)
2	BTH	21AG1501	Fundamentals of Plant Biochemistry and Biotechnology	3(2+1)
3	SAC	21AG1301	Fundamentals of Soil Science	3(2+1)
4	AGR	21AG1003	Introduction to Forestry	2(1+1)
5	AEX	20EN2001	Comprehension and Communication Skills in English	2(1+1)
6	AGR	21AG1001	Fundamentals of Agronomy	4(3+1)
7	AEX	21AG2102	Rural Sociology & Educational Psychology	2(2+0)
Core course Credits				19(13+ 6)
Remedial Courses				
8	AGR (Remedial Course)	21AG1002	Agricultural Heritage	1(1+0)*
9	Remedial Course (R)	20MA1007/ 20AG1001	Elementary Mathematics / Introductory Biology	2(2+0)*/ 2(1+1)*
Remedial course Credits				3(3+0 or 2+1)
Non Gradial Courses				
10	Non gradial course (NC)	20AG1010	Human Values & Ethics (Non-Gradial)	1(1+0)**
11	Non gradial course (NC)	20AG1011/ 22AG1012	NSS (Non-Gradial)/ NCC (Non-Gradial)	1(0+1)**
Non-Gradial course Credits				2(1+1)
TOTAL				24(19+3+2)

Remedial Courses (R)*

(Students joining degree program with +2 in medical stream will take Mathematics and those who with +2 in Engineering stream will take Biology as remedial courses. These courses will cover syllabus for +1 & +2 classes. Agricultural Heritage is a common remedial course for all the students.)

Non gradial course (NC) **

(The grades of these courses will not be considered for CGPA calculation. These courses have to be registered with separate flag in the Eduserve)

I Year: Semester II

S.No.	Discipline	Course Code	Name of the Course	Credits
Core Courses				
1	GPB	21AG1201	Fundamentals of Genetics	3(2+1)
2	SAC	21AG1303	Agricultural Microbiology	2(1+1)
3	AEG	21AG1451	Introductory Soil and Water Conservation Engineering	2(1+1)
4	BTH	21AG1503	Fundamentals of Crop Physiology	2(1+1)
5	AEC	21AG1051	Fundamentals of Agricultural Economics	2(2+0)

6	PAT	21AG1351	Fundamentals of Plant Pathology	4(3+1)
7	AEN	21AG1151	Fundamentals of Entomology	4(3+1)
8	AEX	21AG2103	Fundamentals of Agricultural Extension Education	3(2+1)
9	AEX	21AG1101	Communication Skills and Personality Development	2(1+1)
			Core course Credits	24(16+8)
Non Gradial Courses				
10	Non gradial course (NC)	20AG1012	Physical Education (Non-Gradial)	1(0+1)
			Non-Gradial course Credits	1(0+1)
TOTAL				25(24 +1)

**Non gradial course (NC)

II Year: Semester III

S.No.	Discipline	Course Code	Name of the Course	Credits
Core Courses				
1	AGR	21AG2004	Crop Production Technology – I (<i>Kharif Crops</i>)	2(1+1)
2	GPB	21AG2202	Fundamentals of Plant Breeding	3(2+1)
3	AEC	21AG2052	Agricultural Finance and Cooperation	3(2+1)
4	AEC	21AG2551	Agri- Informatics	2(1+1)
5	AEG	21AG2452	Farm Machinery and Power	2(1+1)
6	HOR	21HO2271	Production Technology for Vegetables and Spices	2(1+1)
7	SAC	21AG2304	Environmental Studies and Disaster Management	3(2+1)
8	AEC	22AG2056	Statistical Methods	2(1+1)
9	ANS	21AG2401	Livestock and Poultry Management	4(3+1)
			Core course Credits	23(14+9)
TOTAL				23

II Year: Semester IV

S.No.	Discipline	Course Code	Name of the Course	Credits
Core Courses				
1	AGR	21AG2005	Crop Production Technology –II (<i>Rabi Crops</i>)	2(1+1)
2	HOR	21HO2272	Production Technology for Ornamental Crops, MAP and Landscaping	2(1+1)
3	AEG	21AG2305	Renewable Energy and Green Technology	2(1+1)
4	SAC	21AG2307	Problematic Soils and their Management	2(2+0)
5	HOR	21HO1270	Production Technology for Fruit and Plantation Crops	2(1+1)
6	GPB	21AG2203	Principles of Seed Technology	3(1+2)
7	AGR	21AG2006	Farming System & Sustainable Agriculture	1(1+0)
8	AEC	21AG2053	Agricultural Marketing Trade & Prices	3(2+1)
9	AGR	21AG1302	Introductory Agro-meteorology & Climate Change	2(1+1)
			Core course Credits	19(11+8)
Professional Electives (3 credits) * Elective Course 1				
10	HOR	22HO2275	Landscaping -Elective Course 1	3(2+1)
	AGR	23AG2012	System Simulation and Agro Advisory	3(2+1)
	AEC	23AG2057	Agri-Business Management	3(2+1)

	HOR	23HO2276	Food Safety and Standards	3(2+1)
	AEC	24AG2553	Basics of Artificial Intelligence in Agriculture	3(3+0)
*Any one of the above elective courses must be selected to satisfy 3 credits				
			Professional Elective Course credits	3(2+1 or 3+0)
TOTAL				22(19+3)

III Year: Semester V

S.No.	Discipline	Course Code	Name of the Course	Credits
Core Courses				
1	PAT	21AG2354	Principles of Integrated Pest and Disease Management	3(2+1)
2	SAC	21AG2306	Manures, Fertilizers and Soil Fertility Management	3(2+1)
3	AEN	21AG2152	Pests of Crops and Stored Grain and their Management	3(2+1)
4	PAT	21AG2352	Diseases of Field and Horticultural Crops and their Management -I	3(2+1)
5	GPB	21AG2204	Crop Improvement-I (<i>Kharif Crops</i>)	2(1+1)
6	AEX	22AG2108	Entrepreneurship Development and Business Communication	2(1+1)
7	AGR	22AG2013	Geoinformatics, Nano-technology and Precision Farming	2(1+1)
8	AGR	21AG2007	Practical Crop Production – I (<i>Kharif crops</i>)	2(0+2)
9	AEC	21AG2552	Intellectual Property Rights	1(1+0)
			Core Course credits	21(12+9)
Professional Electives (3 credits) * Elective Course 2				
	HOR	23HO2277	Micro propagation Technologies-- Elective Course 2	3(1+2)
	AEX	23AG2126	Agricultural Journalism	3(2+1)
	GPB	23AG2205	Commercial Plant Breeding	3(1+2)
	AGR	21AG2012	Weed Management	3(2+1)
	SAC	24AG2310	Climate- Smart Agriculture	3(2+1)
	AEG	24AG2455	Drones and their Applications in Agriculture.	3(2+1)
*Any one of the above elective courses must be selected to satisfy 3 credits				
			Professional Elective Course credits	3 (2+1 or 1+2)
Non Gradial Courses				
11	AEX Non gradial course (NC)	21AG2104	Educational Tour-I	1(0+1)
			Non Gradial Course credits	1
TOTAL				25 (21+3+1)

III Year: Semester VI

S.No.	Discipline	Course Code	Name of the Course	Credits
Core Courses				
1	AGR	21AG2009	Rainfed Agriculture & Watershed Management	2(1+1)
2	AEG	21AG2453	Protected Cultivation and Secondary	2(1+1)

			Agriculture	
3	PAT	21AG2353	Diseases of Field and Horticultural Crops and their management-II	3(2+1)
4	HOR	21HO2273	Post-harvest Management and Value Addition of Fruits and Vegetables	2(1+1)
5	AEN	21AG2153	Management of Beneficial Insects	2(1+1)
6	GPB	21AG2205	Crop Improvement-II (<i>Rabi crops</i>)	2(1+1)
7	AGR	21AG2010	Practical Crop Production –II (<i>Rabi crops</i>)	2(0+2)
8	AGR	21AG2011	Principles of Organic Farming	2(1+1)
9	AEC	21AG2055	Farm Management, Production & Resource Economics	2(1+1)
10	HOR	21HO2274	Principles of Food Science and Nutrition	2(2+0)
			Core Course credits	21(11+10)
Non Gradial Courses				
11	AEX Non gradial course (NC)	21AG2105	Educational tour-II	1(0+1)
			Non-Gradial course Credits	1
Professional Electives (3 credits) * Elective Course 3				
12	SAC	22AG2308	Agrochemicals - Elective Course 3	3(2+1)
	SAC	23AG2309	Biopesticides & Biofertilizers	3(2+1)
	AEG	23AG2454	Protected Cultivation	3(2+1)
	HOR	23HO2278	Hi-tech. Horticulture	3(2+1)
	AEC	23MS2001	Concepts and Applications in Entrepreneurship	3(3+0)
	AGR	24AG2014	RS, GIS & GPS in Precision Farming	3(2+1)
*Any one of the above elective courses must be selected to satisfy 3 credits				
			Professional Elective Course credits	3 (2+1 or 3+0)
TOTAL				25 (21+1+3)

IV Year Semester: VII

Rural Agricultural Work Experience and Agro-Industrial Attachment (RAWE & AIA)

S.No.	Discipline	Course Code	Name of the Course	Credits
Core Course				
1	AEX	21AG2106	Rural Agricultural Work Experience (RAWE) and Agro-Industrial Attachment (AIA)	20(0+20)
			Core Course credits	20(0+20)
			TOTAL	20

IV Year Semester: VIII

S.No.	Discipline	Course Code	Name of the Course	Credits
Core Courses				
1.	AEX	23AG2109	Experiential Learning Program-Seed Production Technology	0+10
2.	AEX	23AG2110	Experiential Learning Program-Soil, Plant, and Water testing Services	0+10
3.	AEX	23AG2111	Experiential Learning Program-Organic Production Technology	0+10
4.	AEX	23AG2112	Experiential Learning Program-Commercial	0+10

			Floriculture and Landscaping	
5.	AEX	23AG2113	Experiential Learning Program-Commercial Nursery Management and Protected Cultivation	0+10
6.	AEX	23AG2114	Experiential Learning Program-Production Technology of Biofertilizer	0+10
7.	AEX	23AG2115	Experiential Learning Program-Mushroom Cultivation Technology	0+10
8.	AEX	23AG2116	Experiential Learning Program-Commercial Beekeeping	0+10
9.	AEX	23AG2117	Experiential Learning Program-Agribusiness Management	0+10
10.	AEX	23AG2118	Experiential Learning Program-Agricultural Information Support Services	0+10
11.	AEX	23AG2119	Experiential Learning Program-Broiler Production Technology	0+10
12.	AEX	23AG2120	Experiential Learning Program-Food Processing	0+10
13.	AEX	23AG2121	Experiential Learning Program-Production Technology of Biocontrol Agents	0+10
14.	AEX	23AG2122	Experiential Learning Program-Commercial Sericulture	0+10
15.	AEX	23AG2123	Experiential Learning Program-Crop Production and Processing of Turmeric	0+10
16.	AEX	23AG2124	Experiential Learning Program-Crop Production and Storage of Small Onion	0+10
17.	AEX	23AG2125	Experiential Learning Program-Quail Production Technology	0+10
Each student must select any 2 of the above ELP courses (0+10) each, accounting to 0+20 credits.				
TOTAL				20

ABSTRACT

Revised Semester wise distribution of courses for B.Sc. (Hons.) Agriculture - 2022-2026 batch onwards

Semester	Number of Course	Credits
1	11	24 (13+6) Core + 3 Remedial + 2 Non Gradial
2	10	25 (16+8) Core +1 Non Gradial
3	9	23 (14+9) Core
4	10	22 (11+8) Core + 3 Electives
5	11	25 (12+9) Core +3 Electives + 1 Non Gradial
6	12	25 (11+10) Core +3 Electives + 1 Non Gradial
7	1	20 (0+20) Core
8	2	20 { 2 x (0+10) Core }
	66	184 (77+90 Core + 3 R+ 5 NC + 9 Electives)
Total		184

(*Educational Tour I & Educational Tour II in semesters V and VI are converted to Non-Gradual-NCcourses accounting to 5 NC courses. This revision is made in accordance with ICAR fifth Dean's Committee Report)