

**School of Agriculture  
Galgotias University**

**Revised Course Structure and detailed syllabus for B.Sc. (Hons.) Agriculture as per 6<sup>th</sup>  
Deans Committee Report, ICAR**

S.No.	Course Title	L	T	P	C
1	Deeksharambh (Induction cum Foundation course)	1 Week (NG)	0	0	0
2	Skill Enhancement course-I*	0	0	4	2
3	Skill Enhancement course-II*	0	0	4	2
4	Communication Skills	1	0	2	2
5	Farming-based livelihood systems	2	0	2	3
6	Rural Sociology and Educational Psychology	2	0	0	2
7	Fundamentals of Agronomy	2	0	2	3
8	Fundamentals of Soil Science	2	0	2	3
9	Fundamentals of Horticulture	2	0	2	3
10	NSS-I / NCC-I	0	0	2	1
11	Introductory Mathematics (Need-based)	1	0	0	0

S.No.	Course Title	L	T	P	C
1	Skill Enhancement course-V*	0	0	4	2
2	Entrepreneurship Development and Business Communication	2	0	2	3
3	Physical Education, First	0	0	4	2

	Aid, Yoga & Meditation				
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4	Principles of Genetics	2	0	2	3
5	Crop Production Technology-I (Kharif crops)	2	0	2	3
6	Production Tech. of Fruit & Plantation Crops	1	0	2	2
7	Fundamentals of Extension Education	1	0	2	2
8	Fundamentals of Nematology	1	0	2	2
9	Principles and Practices of Natural Farming	1	0	2	2

S.No.	Course Title	L	T	P	C
1	Skill Enhancement course-VI*	1	0	2	2
2	Agricultural Informatics and AI	2	0	2	3
3	Production Tech. of Vegetables and Spices	1	0	2	2
4	Agri Economics & Farm Management	2	0	0	2
5	Crop Production Technology-II (Rabi crops)	1	0	4	3
6	Farm Machinery and Power	1	0	2	2
7	Water Management	1	0	2	2
8	Problematic Soils and Their Management	1	0	2	2
9	Basics of Plant Breeding	2	0	1	3

S.No.	Course Title	L	T	P	C
1	Agricultural Marketing and Trade	2	0	1	3

2	Introduction to Agro-meteorology	1	0	2	1
3	Fundamentals of Crop Physiology	2	0	1	3
4	Pest Mgmt. in Crops and Stored Grains	2	0	1	3
5	Diseases of Field & Hort. Crops & Their Mgmt.	2	0	1	3
6	Crop Improvement (Kharif)	1	0	2	2
7	Weed Management	1	0	2	2
8	Ornamental Crops, MAPs and Landscaping	1	0	2	2
9	Introductory Agroforestry	1	0	2	2

S.No.	Course Title	L	T	P	C
1	Fundamentals of Agri Biotechnology	2	0	2	3
2	Basic and Applied Agri Statistics	2	0	2	3
3	Crop Improvement (Rabi)	1	0	2	2
4	Renewable Energy in Agri and Allied Sectors	1	0	2	2
5	Dryland / Rainfed Agri & Watershed Mgmt	1	0	2	2

6	Agricultural Microbiology & Phytoremediation	1	0	2	2
7	Agricultural Finance & Cooperation	1	0	2	2

8	Essentials of Plant Biochemistry	2	0	2	3
9	Fundamentals of Seed Science & Technology	1	0	2	2

S.No.	Course Title	L	T	P	C
1	Elective Course (Major/Minor)	0	0	4	8
2	Elective Course (Major/Minor)	0	0	4	8
3	Elective Course (Major/Minor)	0	0	4	8
4	Elective Course (Major/Minor)	0	0	4	8
5	Elective Course (Major/Minor)	0	0	4	8
S.No.	Course Title	L	T	P	C
1	0	0	40	20	1

### Summary

Component	Credits
Total Academic Credits	167
Online Skill Enhancement Courses (SEC)* 10 (Online)	
<b>Grand Total</b>	<b>177</b>

### Online Courses

The students will have to take a minimum of 10 credits of online courses (as per UGC guidelines for online courses) as a partial requirement for the B.Sc. (Hons) Agriculture. The online courses can be from any field such as Basic Sciences, Humanities, Commerce, Business Management, Languages including foreign language, Communication skills, Music, etc. and

can be taken from SWAYAM, Diksha, NPTEL, mooKIT, edX, Coursera, or any other portal. The objective is to allow the students to groom their passion or strengthen their knowledge and competency in any field beyond prescribed courses. The students will take prior approval of the courses they opt from the concerned Dean/Assoc. Dean/Principal of the Faculty/College/Institute. The courses will be non-gradual as separate certificates would be issued by the Institute/ University offering the courses. However, the University/ institute will keep a record of such courses registered and completed by each student and will indicate the title of the (successfully completed) courses in final transcript issued to the student.

**Course Category:**

<b>Course Category</b>	<b>Course Title</b>	<b>Credit Hours</b>
Common Courses	Farming based livelihood systems	3 (2+1)
Common Courses	Communication skill	2 (1+1)
Common Courses	Personality development	2 (1+1)
Common Courses	Environmental studies and disaster management	3 (2+1)
Common Courses	Agricultural Informatics and Artificial Intelligence	3 (2+1)
Common Courses	Entrepreneurship Development and Business Management	3 (2+1)
Common Courses	Agricultural Marketing & Trade	3 (2+1)
Common Courses	NSS/NCC-I (2 courses)	2 (0+1 each)
Common Courses	Physical Education, First Aid and Yoga Practices	2
Core Courses	Fundamentals of Agronomy	3 (2+1)
Core Courses	Crop Production Technology-I (Kharif Crops)	3 (1+2)
Core Courses	Crop Production Technology-II (Rabi Crops)	3 (1+2)
Core Courses	Water Management	2 (1+1)
Core Courses	Weed Management	2 (1+1)
Core Courses	Introductory Agro forestry	2 (1+1)
Core Courses	Dryland agriculture/ Rainfed agriculture and watershed management	2 (1+1)
Core Courses	Principles and Practices of Natural Farming	2 (1+1)
Core Courses	Fundamentals of Soil Science	3 (2+1)
Core Courses	Soil Fertility Management	3 (2+1)
Core Courses	Problematic Soils and their management	2 (1+1)
Core Courses	Fundamentals of Horticulture	3 (2+1)
Core Courses	Production Technology of Fruit and Plantation Crops	2 (1+1)
Core Courses	Production Technology of Vegetables and Spices	2 (1+1)
Core Courses	Ornamental Crops, MAPs, and Landscaping	2 (2+1)
Core Courses	Principles of Genetics	3 (2+1)
Core Courses	Basics of Plant Breeding	3 (2+1)
Core Courses	Crop Improvement (kharif crops)- I	2 (1+1)
Core Courses	Crop Improvement (Rabi crops)- II	2 (1+1)

Core Courses	Fundamentals of Extension Education	2 (1+1)
Core Courses	Introduction to Agro-meteorology	2 (1+1)
Core Courses	Principles of Agricultural Economics and Farm Management	2 (2+0)
Core Courses	Agricultural Finance & Cooperation	2 (1+1)
Core Courses	Basic and Applied Agril. Statistics	3 (2+1)
Core courses	Farm Machinery and Power	2 (1+1)
Core Courses	Renewable energy in Agriculture and Allied Sector	2 (1+1)
Core Courses	Fundamentals of Nematology	2 (1+1)
Core Courses	Essentials of Plant Biochemistry	3 (2+1)
Core Courses	Fundamentals of Crop Physiology	3 (2+1)
Core Courses	Livestock and poultry Management	2 (1+1)
Core Courses	Fundamentals of Agri Biotechnology	3 (2+1)
Skill Enhancement Courses	Biofertilizer and biopesticide production	2 (0+2)
Skill Enhancement Courses	Mushroom production technology	2 (0+2)
Skill Enhancement Courses	Seed Production Technology	2 (0+2)
Skill Enhancement Courses	Post harvest processing technology	2 (0+2)
Skill Enhancement Courses	Beneficial insect farming	2 (0+2)
Skill Enhancement Courses	Horticulture nursery management	2 (0+2)
Skill Enhancement Courses	Plantation crops production and management	2 (0+2)
Internship/READY	Student READY (Experiential Learning + RAWE)	20 (10+10)
Other Courses	Remedial Mathematics	1 (1+0) Non-gradual

Other Courses	Study tour (2 weeks in 5th semester)	2 (0+2) Non-gradual
Other Courses	Online courses (MOOCs/SWAYAM)	10 Non-gradual

**Elective Courses:**

<b>Course Category</b>	<b>Course Title</b>	<b>Credit Hours</b>
Elective Courses	Agri-Business Management	4 (0+4)
Elective Courses	Management of natural resources	4 (0+4)
Elective Courses	Agrochemicals	4 (0+4)
Elective Courses	Agricultural Journalism	4 (0+4)
Elective Courses	Landscaping	4 (0+4)
Elective Courses	Commercial Plant breeding	4 (0+4)
Elective Courses	Food safety and standards	4 (0+4)
Elective Courses	Bioformulation and Nano formulation	4 (0+4)
Elective Courses	Biopesticides and Biofertilizers	4 (0+4)
Elective Courses	System Simulation and Agro advisory	4 (0+4)
Elective Courses	Hi-tech Horticulture	4 (0+4)
Elective Courses	Protected cultivation	4 (0+4)
Elective Courses	Climate Resilient Agriculture	4 (0+4)
Elective Courses	Biotechnology of Crop Improvement	4 (0+4)
Elective Courses	Geoinformatics and Remote Sensing, precision farming	4 (0+4)
Elective Courses	Micro-propagation Technologies	4 (0+4)
Elective Courses	Commercial Seed Production	4 (0+4)
Elective Courses	Principles and Practices of Organic Farming/ Conservation Agriculture	4 (0+4)

Elective Courses	Food Science and Nutrition	4 (0+4)
Elective Courses	Post-Harvest Technology and Value Addition	4 (0+4)