

Study & Evaluation Scheme

of

Bachelor of Science (HONS.)
(Agriculture)
[Academic Session 2020-21]
4 Years (8 Semester) Hons. Degree Course



UNITED UNIVERSITY,
PRAYAGRAJ

B.Sc. (Hons.) Agriculture
4 Year (8 Semester) Degree Programme
United University, Prayagraj
2020-2021 Session

Study & Evaluation Scheme

SUMMARY

Sem.	Total No. of Course	L	P	CA	ESE	Total Marks	Credit
I	15 (10+5)	20	10	495	655	1150	25 (20+5)
II	15 (9+6)	20	12	480	620	1100	25 (19+6)
III	15 (9+6)	19	12	500	650	1150	25 (19+6)
IV	20 (11+9)	16	18	515	635	1150	25 (16+9)
V	23 (12+11)	14	22	555	695	1250	25 (14+11)
VI	21 (11+10)	15	20	550	700	1250	25 (15+10)
Total upto VI Sem.	109 (62 +47)	104	94	3095	3955	7050	150 (103+47)
VII	Training Programme 20 Weeks			450	-	450	20 (0+20)
VIII	Training Programme 24 Weeks			500	-	500	20 (0+20)
Total				4045	3955	8000	190 (103 + 87)

L- Lecture, P- Practical, CA- Continuous Assessment, ESE- End Sem. Exam

B.Sc. (Hons.) Agriculture
4 Year (8 Semester) Degree Programme
United University, Prayagraj
2020-2021 Session

Guidelines on Continuous Assessment (CA)

(upto first six semester courses)

Continuous Assessment (CA). of a course with weightage 40% comprises of two components (a) **Class Tests** (b) **Teacher Assessment**.

- (a) **Class Tests (20 % marks)** : There should be 2-3 class tests of at least one hour in each paper. First test normally covers upto 40% of the course.
- (b) **Teacher Assessment (20 % marks)** : is normally based on Viva, Practical and field work, Live mini projects and its presentation and or Presentation on topics of the subject which may also be related to relevant real life examples of different agricultural areas.

Guidelines on Evaluation and Assessment Scheme of **Training Programme of VII & VII Sem.** are available separately.

B. Sc. Ag. (Hons.) 4 year (8 Semester) Degree Programme
Ist Year - Ist Semester (2020-21)
United University

Sr. No	Course Code	Course Title	Teaching		Evaluation Scheme			Credit
			L	P	CA	ESE	Total	
1		Fundamental of Agronomy	2	-	40	60	100	2
2		Fundamentals of Soil Science	2	-	40	60	100	2
3		fundamentals of Horticulture	2	-	40	60	100	2
4		Introduction to Forestry	1	-	20	30	50	1
5		fundamentals of Plant Biochemistry and Biotechnology	2	-	40	60	100	2
6		Rural Sociology & Educational Psychology	2	-	40	60	100	2
7		Introductory Biology	2	-	40	60	100	2
8		Elementary Mathematics	2	-	40	60	100	2
9		Agricultural Heritage	1	-	20	30	50	1
10		Professional Proficiency	4	-	50	50	100	4
11		Fundamentals of Agronomy Practical	-	2	25	25	50	1
12		Fundamentals of Soil science Practical	-	2	25	25	50	1
13		Fundamentals of Horticulture Practical	-	2	25	25	50	1
14		Introduction to Forestry Practical	-	2	25	25	50	1
15		Fundamentals of Plant Biochemistry and Biotechnology Practical	-	2	25	25	100	1
Total			20	10	495	655	1150	25

C A : Continuous Assessment, L - Lecture
ESE : End Sem. Exam P - Practical

B. Sc. Ag. (Hons.) 4 year (8 Semester) Degree Programme
Ist Year - IInd Semester (2020-21)
United University

Sr. No.	Course Code	Course Title	Teaching		Evaluation Scheme			Credit
			L	P	CA	ESE	Total	
1		Fundamentals of Genetics	2	-	40	60	100	2
2		Fundamentals of Plant Pathology and Agricultural Microbiology	2	-	40	60	100	2
3		Soil and Water Conservation	1	-	20	30	50	1
4		Fundamentals of Crop Physiology	1	-	20	30	50	1
5		Fundamentals of Entomology	2	-	40	60	100	2
6		Fundamentals of Agricultural Extension Education	2	-	40	60	100	2
7		Fundamentals of Agricultural Economics	2	-	40	60	100	2
8		Computer Applications	4	-	40	60	100	3
9		Professional Proficiency	4		50	50	100	4
10		Fundamentals of Genetics Practical	-	2	25	25	50	1
11		Fundamentals of Plant Pathology and Agricultural Microbiology Practical	-	2	25	25	50	1
12		Soil and Water conservation Practical	-	2	25	25	50	1
13		Fundamentals of Crop Physiology Practical	-	2	25	25	50	1
14		Fundamentals of Entomology Practical	-	2	25	25	50	1
15		Fundamentals of Agricultural Extension Education Practical	-	2	25	25	50	1
Total			20	12	480	620	1100	25

B. Sc. Ag. (Hons.) 4 year (8 Semester) Degree Programme
2nd Year - IIIrd Semester (2020-21)
United University

Sr. No.	Course Code	Course Title	Teaching		Evaluation Scheme			Credit
			L	P	CA	ESE	Total	
1		Crop Production Technology - I (<i>Kharif Crops</i>)	2	-	40	60	100	2
2		Fundamentals of Plant Breeding	2	-	40	60	100	2
3		Agricultural Finance, Cooperation and Agri- Informatics	2	-	40	60	100	2
4		Principles of Seed Technology	2	-	40	60	100	2
5		Production Technology for Vegetables and Spices	2	-	40	60	100	2
6		Environmental Studies and Disaster Management	2	-	40	60	100	2
7		Statistical Methods	2	-	40	30	100	2
8		Livestock and Poultry Management	1	-	20	30	50	1
9		Professional Proficiency	4	-	50	50	100	4
10		Crop Production Technology - I (<i>Kharif Crops</i>) Practical	-	2	25	25	50	1
11		Fundamentals of Plant Breeding Practical	-	2	25	25	50	1
12		Agricultural Finance, Cooperation and Agri-Informatics Practical	-	2	25	25	50	1
13		Principles of Seed Technology Practical	-	2	25	25	50	1
14		Production Technology for Vegetables and Spices Practical	-	2	25	25	50	1
15		Livestock and Poultry Management Practical	-	2	25	25	50	1
Total			19	12	500	650	1150	25

B. Sc. Ag. (Hons.) 4 year (8 Semester) Degree Programme
2nd Year - IVth Semester (2020-21)
United University

Sr. No.	Course Code	Course Title	Teaching		Evaluation Scheme			Credit
			L	P	CA	ESE	Total	
1		Crop Production Technology -II (<i>Rabi Crops</i>)	2	-	40	60	100	2
2		Production Technology for Ornamental Crops, Fruit crops, Plantation crops, MAP and Landscaping	2	-	40	60	100	2
3		Farm Machinery and Power	1	-	20	30	50	1
4		Agricultural Marketing Trade & Prices	1	-	20	30	50	1
5		Introductory Agro meteorology & Climate Change	1	-	20	30	50	1
6		Farming System & Sustainable Agriculture	1	-	20	30	50	1
7		Professional Proficiency	4	-	50	50	100	4
8		Renewable Energy and Green Technology	1	-	20	30	50	1
9		Elective -1	1	-	20	30	50	1
10		Elective -2	1	-	20	30	50	1
11		Elective -3	1	-	20	30	50	1
12		Crop Production Technology -II (<i>Rabi Crops</i>) Practical	-	2	25	25	50	1
13		Production Technology for Ornamental Crops, Fruit Plantation Crops MAPs and Landscaping Practical	-	2	25	25	50	1
14		Farm Machinery and Power Practical	-	2	25	25	50	1
15		Agricultural Marketing Trade & Price Practical	-	2	25	25	50	1

16		Introductory agro Meteorology & Climate Change Practical	-	2	25	25	50	1
17		Renewable Energy and Green Technology	-	2	25	25	50	1
18		Elective -1 (Practical)	-	2	25	25	50	1
19		Elective -2 (Practical)	-	2	25	25	50	1
20		Elective -3 (Practical)	-	2	25	25	50	1
		Total	16	18	515	635	1150	25
Elective Courses of IV Semester A student has to register 3 elective courses in the IV semester								
1		Agribusiness Management	1	-	20	30	50	1
2		Agrochemicals	1	-	20	30	50	1
3		Commercial Plant Breeding	1	-	20	30	50	1
4		Landscaping	1	-	20	30	50	1
5		Agribusiness Management Practical	-	2	25	25	50	1
6		Agrochemicals Practical	-	2	25	25	50	1
7		Commercial Plant Breeding Practical	-	2	25	25	50	1
8		Landscaping Practical	-	2	25	25	50	1

B. Sc. Ag. (Hons.) 4 year (8 Semester) Degree Programme
3rd Year - Vth Semester (2020-21)
United University

Sr. No.	Course Code	Course Title	Teaching		Evaluation Scheme			Credit
			L	P	CA	ESE	Total	
1		Principles of Integrated Pest and Disease Management	2	-	40	60	100	2
2		Manures, Fertilizers and Soil Fertility Management	1	-	20	30	50	1
3		Pests of Crops and Stored Grain and their Management and Management of Beneficial insects	2	-	40	60	100	2
4		Diseases of Field and Horticultural Crops and their Management-I	1	-	20	30	50	1
5		Crop Improvement -I (<i>Kharif Crops</i>)	1	-	20	30	50	1
6		Entrepreneurship Development and Business Communication	1	-	20	30	50	1
7		Geoinformatics and Nano-technology and Precision Farming	1	-	20	30	50	1
8		Intellectual Property Rights	1	-	20	30	50	1
9		Values and Professional Ethic	1	-	20	30	50	1
10		Elective -1	1	-	20	30	50	1
11		Elective -2	1	-	20	30	50	1
12		Elective -3	1	-	20	30	50	1
13		Principles of Integrated Pest and Disease Management Practical	-	2	25	25	50	1
14		Manures, Fertilizers and Soil Fertility Management Practical	-	2	25	25	50	1
15		Pests of Crops and Stored Grain and their Management and Management of Beneficial insects Practical	-	2	25	25	50	1
16		Diseases of Field and Horticultural Crops and their Management -I Practical	-	2	25	25	50	1

17		Crop Improvement - I (Kharif Crops) Practical	-	2	25	25	50	1
18		Entrepreneurship Development and Business Communication Practical	-	2	25	25	50	1
19		Geo informatics and Nano technology and Precision farming Practical	-	2	25	25	50	1
20		Practical Crop Production - I (Kharif Crops)	-	2	25	25	50	1
21		Elective -1 (Practical)	-	2	25	25	50	1
22		Elective -2 (Practical)	-	2	25	25	50	1
23		Elective -3 (Practical)	-	2	25	25	50	1
		Total	14	22	555	695	1250	25
Elective Courses of Vth Semester A student has to register 3 elective courses in the V semester								
1		Food Safety and Standards	1	-	20	30	50	1
2		Biopesticides and Biofertilizers	1	-	20	30	50	1
3		Protected Cultivation	1	-	20	30	50	1
4		Micro propogation and Technologies	1	-	20	30	50	1
5		Food Safety and Standards Practical	-	2	25	25	50	1
6		Biopesticides and Biofertilizers Practical	-	2	25	25	50	1
7		Protected Cultivation Practical	-	2	25	25	50	1
8		Micro propogation and Technologies Practical	-	2	25	25	50	1

B.Sc. Ag. (Hons.) 4 year (8 Semester) Degree Programme
3rd Year - VIth Semester (2020-21)
United University

Sr. No.	Course Code	Course Title	Teaching		Evaluation Scheme			Credit
			L	P	CA	ESE	Total	
1		Rainfed Agriculture, Watershed Management and Organic Farming	2	-	40	60	100	2
2		Protected Cultivation and Secondary Agriculture	2	-	40	60	100	2
3		Diseases of Field and Horticultural Crops and their Management - II	2	-	40	60	100	2
4		POst-harvest Management and Value Addition of Fruits and Vegetables	1	-	20	30	50	1
5		Crop Improvement - II (<i>Rabi Crops</i>)	1	-	20	30	50	1
6		Farm Management, Production & Resource Economics	2	-	40	60	100	2
7		Problematic Soils and their Management	1	-	20	30	50	1
8		Principles of Food Science and Nutrition	1	-	20	30	50	1
9		Elective -1	1	-	25	25	50	1
10		Elective -2	1	-	25	25	50	1
11		Elective -3	1	-	25	25	50	1
12		Rainfed Agriculture and Watershed Management and Organic Farming Practical	-	2	25	25	50	1
13		Protected Cultivation and Secondary Agriculture Practical	-	2	25	25	50	1
14		Diseases of Field and Horticultural Crops and their Management - II Practical	-	2	25	25	50	1
15		Post- harvest Management and Value Addition of Fruits and Vegetables Practical	-	2	25	25	50	1

16		Crop Improvement - II (Rabi Crops) Practical	-	2	25	25	50	1
17		Farm Management, Production & Resource Economics Practical	-	2	25	25	50	1
18		Practical Crop Production -II (Rabi Crops)	-	2	25	25	50	1
19		Elective Practical	-	2	25	25	50	1
20		Elective Practical	-	2	25	25	50	1
21		Elective Practical	-	2	25	25	50	1
			15	20	550	700	1250	25
<p style="text-align: center;">Elective Courses of VIth Semester A student has to register 3 elective courses in the VI semester</p>								
1		Hi-tech. Horticulture	1	-	20	30	50	1
2		Weed Management	1	-	20	30	50	1
3		System Simulation and Agro- advisory	1	-	20	30	50	1
4		Agricultural Journalism	1	-	20	30	50	1
5		Hi-tech. Horticulture Practical	-	2	25	25	50	1
6		Weed Management Practical	-	2	25	25	50	1
7		System Simulation and Agro- advisory Practical	-	2	25	25	100	1
8		Agricultural Journalism Practical	-	2	25	25	50	1

**B.Sc. Ag. (Hons.) Agriculture
VIIth Semester
United University**

Sr. No.	Course Coe	Course Title	Credit	Duration	Mark
1		Rural Agricultural Work Experience and Agro- Industrial Attachment (RAWE -AIA)	20 (0+20)	20 Weeks	450

Sr. No.	Activities	No. of weeks	Credit Hours
1	General Orientation & On campus training by different faculties	1	14
2	Village attachment	8	
3	Unit Attachment in Univ./College. KVK/Res. Station Attachment	5	
4	Plant Clinic	2	02
5	Agro-Industrial Attachment	3	04
6	Project Report Preparation & Presentation and Evaluation	1	
	Total Weeks for RAWE & AIA	20	20

COMPONENTS

RAWE - AIA Components

Component -I Village Attachment Training Programme (8 Weeks)

Sr. No.	Activity	Duration
1	Orientation and Survey of Village	1 Week
2	Agronomical Interventions	1 Week
3	Plant Protection Interventions	1 Week
4	Soil Improvement Interventions (Soil sampling and testing)	1 Week
5	Fruit and Vegetable production interventions	1 Week
6	Food Processing & Storage Interventions	1 Week
7	Animal Production Interventions	1 Week
8	Extension and Transfer of Technology activities	1 Week

- **Component- II Agro- Industrial Attachment (3weeks)**

The students would be attached with the agro industries to get an experience of the industrial environment and working (3weeks)

Industries include: Seed/Sapling production, Pesticides-insecticides, Post harvest-processing value addition, Agri-finance institutions, etc.

Activities and Tasks during Agro-Industrial Attachment Programme:

- Acquaintance with industry and staff
- Study of structure, functioning, objective and mandates of the industry
- Study of various processing units and hands-on trainings under supervision of industry staff
- Ethics of industry
- Employment generated by the industry
- Contribution of the industry promoting environment
- Learning business network including outlets of the industry
- Skill development in all crucial tasks of the industry
- Documentation of the activities and task performed by the students
- Performance evaluation, appraisal and ranking of students

B.Sc. Ag. (Hons.) Agriculture
VIIIth Semester
United University

Sr. No.	Course Code	Course Title	Credit	Duration	Marks
1		Skill Development & Entrepreneurship	20	24 Weeks	500

Modules

A students has to register 20 credits opting for two modules of 10 credits each (total 20 credits) from the package of modules in the final semester (VIII semester).

List of Modules:

Sr. No.	Title of the module	Credit	Duration	Evaluation
1	Production technology for Bioagents and Biofertilizer	10 (0+10)	24 weeks	250
2	Seed Production and Technology	10 (0+10)		250
3	Mushroom Cultivation Technology	10 (0+10)		250
4	Soil, Plant, Water and Seed testing services	10 (0+10)		250
5	Commercial Horticulture	10 (0+10)		250
6	Floriculture and Landscaping	10 (0+10)		250
7	Poultry Production Technology	10 (0+10)		250
8	Commercial Beekeeping	10 (0+10)		250
9	Food Processing	10 (0+10)		250
10	Agriculture Waste Management	10 (0+10)		250
11	Commercial Sericulture	10 (0+10)		250
12	Organic Production Technology	10 (0+10)		250
	Total	20		500