

Department of Agriculture
Hingiri Zee University
B. Sc (Hons.) Agriculture
Program Structure
Ist Semester

S. No.	Subject Code	Subject Name	Category	Credits	Number of Hours / Week			Evaluation Component			
			Professional(Core)/Elective/ Non-Gradial/Remedial		L	T	P	I	P	E	Total
1	AGR C101	Fundamentals of Horticulture	Core	2	1	0	2	25	25	50	100
2	AGR C102	Fundamentals of Plant Biochemistry and Biotechnology	Core	3	2	0	2	25	25	50	100
3	AGR C103	Fundamentals of Soil Science	Core	3	2	0	2	25	25	50	100
4	AGR C104	Introduction to Forestry	Core	2	1	0	2	25	25	50	100
5	AGR C105	Communication Skills and Personality Development	Core	2	1	0	2	25	25	50	100
6	AGR C106	Fundamentals of Agronomy	Core	4	3	0	2	25	25	50	100
7	AGR R001	Introductory Biology*	Remedial	2	1	0	2	25	25	50	100
8	AGR R002	Elementary Mathematics*	Remedial	2	2	0	0	50	00	50	100
9	AGR R003	Agricultural Heritage*	Remedial	1	1	0	0	50	00	50	100
10	AGR C107	Rural Sociology & Educational Psychology	Core	2	2	0	0	50	00	50	100
11	AGR N001	Human Values & Ethics**	Non-Gradial	1	1	0	0	50	00	50	100
12	AGR N002	Physical Education**	Non-Gradial	2	0	0	4	00	100	00	100
13	HZU S101	Soft Skill-I**	Non-Gradial	1	1	0	0	50	-	50	100
Total				18+ 05*+ 04**=27	18	0	18	375	275	550	1200

*Remedial course

**Non Gradial Course

Total Credits : 27 Core courses : 18 Remedial : 05 Non Gradial : 04

Value Added Courses will also be offered as per the list offered by the university

II Semester

S. No.	Subject Code	Subject Name	Category	Credits	Number of Hours / Week			Evaluation Component			
			Professional(Core)/Elective/ Non-Gradial/Remedial		L	T	P	I	P	E	Total
1	AGR C108	Fundamentals of Genetics	Core	3	2	0	2	25	25	50	100
2	AGR C109	Agricultural Microbiology	Core	2	1	0	2	25	25	50	100
3	AGR C110	Soil and Water Conservation Engineering	Core	2	1	0	2	25	25	50	100
4	AGR C111	Fundamentals of Crop Physiology	Core	2	1	0	2	25	25	50	100
5	AGR C112	Fundamentals of Agricultural Economics	Core	2	2	0	0	50	0	50	100
6	AGR C113	Fundamentals of Plant Pathology	Core	4	3	0	2	25	25	50	100
7	AGR C114	Fundamentals of Entomology	Core	4	3	0	2	25	25	50	100
8	AGR C115	Fundamentals of Agricultural Extension Education	Core	3	2	0	2	25	25	50	100
9	HZU S102	Soft Skill-II**	Non-Gradial	1	1	0	0	50	-	50	100
Total				22 + 1 (NC)	16	0	14	225	225	350	800

**** Non Gradial**

Total Credits : 23

Core courses : 22

Non Gradial : 01

Value Added Courses will also be offered as per the list offered by the university

III Semester

S. No	Subject Code	Subject Name	Category	Credits	Number of Hours / Week			Evaluation Component			
			Professional(Core)/Elective/ Non-Gradial/Remedial		L	T	P	I	P	E	Total
1	AGR C201	Crop Production Technology – I (Kharif Crops)	Core	2	1	0	2	25	25	50	100
2	AGR C202	Fundamentals of Plant Breeding	Core	3	2	0	2	25	25	50	100
3	AGR C203	Agricultural Finance and Cooperation	Core	3	2	0	2	25	25	50	100
4	AGR C204	Agri- Informatics	Core	2	1	0	2	25	25	50	100
5	AGR C205	Farm Machinery and Power	Core	2	1	0	2	25	25	50	100
6	AGR C206	Production Technology for Vegetables and Spices	Core	2	1	0	2	25	25	50	100
7	AGR C207	Environmental Studies and Disaster Management	Core	3	2	0	2	25	25	50	100
8	AGR C208	Statistical Methods	Core	2	1	0	2	25	25	50	100
9	AGR C209	Livestock and Poultry Management	Core	4	3	0	2	25	25	50	100
10	HZU S201	Soft Skill-III**	Non-Gradial	1	1	0	0	50	-	50	100
Total				23 + 1 (NC)	15	0	18	225	225	450	900

**** Non Gradial**

Total Credits :24

Core Courses : 23

Non Gradial : 01

IV Semester

S. No	Subject Code	Subject Name	Category	Credits	Number of Hours / Week			Evaluation Component			
			Professional(Core)/Elective/ Non-Gradial/Remedial		L	T	P	I	P	E	Total
1	AGR C210	Crop Production Technology –II (Rabi Crops)	Core	2	1	0	2	25	25	50	100
2	AGR C211	Production Technology for Ornamental Crops, MAP and Landscaping	Core	2	1	0	2	25	25	50	100
3	AGR C212	Renewable Energy and Green Technology	Core	2	1	0	2	25	25	50	100
4	AGR C213	Problematic Soils and their Management	Core	2	2	0	0	50	00	50	100
5	AGR C214	Production Technology for Fruit and Plantation Crops	Core	2	1	0	2	25	25	50	100
6	AGR C215	Principles of Seed Technology	Core	3	1	0	3	25	25	50	100
7	AGR C216	Farming System & Sustainable Agriculture	Core	1	1	0	0	50	00	50	100
8	AGR C217	Agricultural Marketing Trade & Prices	Core	3	2	0	2	25	25	50	100
9	AGR C218	Introductory Agro-meteorology & Climate Change	Core	2	1	0	2	25	25	50	100
10	-	Elective	Elective	3	2	0	2	25	25	50	100
11	HZU S202	Soft Skill-IV**	Non-Gradial	1	1	0	0	50	-	50	100
Total				22 + 1 (NC)	14	0	17	300	200	500	1000

**** Non Gradial**

Total Credits :23

Core Courses : 22

Non Gradial : 01

In case of elective courses, the course code and the name of the course will be chosen by the student from the list of electives offered during the semester.

**After Completing IV Semester
Summer Term/IP-I/Project (LOP, SOP, COP)**

V Semester

S. No	Subject Code	Subject Name	Category	Credits	Number of Hours / Week			Evaluation Component			
			Professional(Core)/Elective/ Non-Gradial/Remedial		L	T	P	I	P	E	Total
1	AGR C301	Principles of Integrated Pest and Disease Management	Core	3	2	0	2	25	25	50	100
2	AGR C302	Manures, Fertilizers and Soil Fertility Management	Core	3	2	0	2	25	25	50	100
3	AGR C303	Pests of Crops and Stored Grain and their Management	Core	3	2	0	2	25	25	50	100
4	AGR C304	Diseases of Field and Horticultural Crops and their Management –I	Core	3	2	0	2	25	25	50	100
5	AGR C305	Crop Improvement-I (<i>Kharif Crops</i>)	Core	2	1	0	2	25	25	50	100
6	AGR C306	Entrepreneurship Development and Business Communication	Core	2	1	0	2	25	25	50	100
7	AGR C307	Geoinformatics and Nano-technology and Precision Farming	Core	2	1	0	2	25	25	50	100
8	AGR C308	Practical Crop Production-I(Kharif crops)	Core	2	0	0	4	00	100	00	100
9	-	Elective	Elective	3	3	0	0	50	00	50	100
10	-	Elective	Elective	3	2	0	2	25	25	50	100
11	HZU S301	Soft Skill-V**	Non-Gradial	1	1	0	0	50	-	50	100
Total				26 + 1 (NC)	17	0	20	250	300	450	1000

**** Non Gradial**

Total Credits :27

Core Courses : 26

Non Gradial : 01

In case of elective courses, the course code and the name of the course will be chosen by the student from the list of electives offered during the semester.

VI Semester

S. No.	Subject Code	Subject Name	Category	Credits	Number of Hours / Week			Evaluation Component			
			Professional(Core)/Elective /Non-Gradial/Remedial		L	T	P	I	P	E	Total
1	AGR C309	Rainfed Agriculture & Watershed Management	Core	2	1	0	2	25	25	50	100
2	AGR C310	Protected Cultivation and Secondary Agriculture	Core	2	1	0	2	25	25	50	100
3	AGR C311	Diseases of Field and Horticultural Crops and their Management-II	Core	3	2	0	2	25	25	50	100
4	AGR C312	Post-harvest Management and Value Addition of Fruits and Vegetables	Core	2	1	0	2	25	25	50	100
5	AGR C313	Management of Beneficial Insects	Core	2	1	0	2	25	25	50	100
6	AGR C314	Crop Improvement-II (<i>Rabi crops</i>)	Core	2	1	0	2	25	25	50	100
7	AGR C315	Practical Crop Production –II (<i>Rabi crops</i>)	Core	2	0	0	4	0	100	00	100
8	AGR C316	Principles of Organic Farming	Core	2	1	0	2	25	25	50	100
9	AGR C317	Farm Management, Production & Resource Economics	Core	2	1	0	2	25	25	50	100
10		Elective	Elective	3	3	0	0	50	00	50	100
11		Elective	Elective	3	1	0	4	25	25	50	100
12	HZU S302	Soft Skill-VI**	Non-Gradial	1	1	0	0	50	-	50	100
Total				26	14	0	24	275	325	500	1100

**** Non Gradial**

Total Credits :27

Core Courses : 26

Non Gradial : 01

After Completing VI Semester
Summer Term/IP-I/Project (LOP, SOP, COP)

VII Semester

S.No.	Subject Code	Subject Name	Category	Credits	Number of Hours / Week			Evaluation Component			
			Professional(Core)/Elective/ Non-Gradial/Remedial		L	T	P	I	P	E	Total
1	AGR C401	Internship Program / [RAWE (Rural Agricultural Work Experience)]	Core	20	0	0	40	-	600	-	600
Total				20	0	0	40		600	-	600

VIII Semester

S.No.	Subject Code	Subject Name	Category	Credits	Number of Hours / Week			Evaluation Component			
			Professional(Core)/Elective/ Non-Gradial/Remedial		L	T	P	I	P	E	Total
1	AGR C402	Internship Program/ Experiential Learning	Core	20	0	0	40	-	600	-	600
2		Elective-1		3	3	0	2	25	25	50	100
3		Elective-2		3	2	0	2	25	25	50	100
Total				26	05	0	44	50	650	100	800

In case of elective courses, the course code and the name of the course will be chosen by the student from the list of electives offered during the semester.

List of Discipline Electives Courses:

S. No.	Course Code	Courses	Credit Hours
1	AGR E001	Landscaping	3(2+1)
2	AGR E002	Principles of Food Science and Nutrition	3(3+0)
3	AGR E003	Food safety and Standards	3(2+1)
4	AGR E004	Mushroom Cultivation Technology	3(2+1)
5	AGR E005	Micro-propagation	3(2+1)
6	AGR E006	Intellectual Property Rights	3(2+1)
7	AGR E007	Biopesticides and Biofertilizer	3(2+1)
8	AGR E008	Hi-Tech Horticulture	3(2+1)
9	AGR E009	Commercial Plant Breeding	3(2+1)
10	AGR E010	Protected Cultivation	3(2+1)
11	AGR E011	Emerging Food Processing Technology	3(2+1)
12	AGR E012	Plastic in Agriculture	3(2+1)
13	AGR E013	Introductory Nanotechnology	3(2+1)
14	AGR E014	Hill Agriculture	3(2+1)
15	AGR E015	Conservation Agriculture	3(2+1)
16	AGR E016	Applications of Drones in Agriculture	3(3+0)

List of University Electives

1. IPR
2. Organic Farming
3. Agribusiness Management
4. Food Safety and Standard