



GLOCAL SCHOOL OF AGRICULTURAL SCIENCES
SEMESTER WISE COURSE CODES OF B. Sc (Hons.) AGRICULTURE

I-Semester	CODES	CREDITS	
	Elementary Agriculture	AEA-101	3(2+1)
	Fundamentals of Soil Science	AFS-102	3(2+1)
	Introductory Biology	AIB-103	3(2+1)
	Elementary Mathematics	AEM-107	3(2+1)
	Basic of English Language	ABE-105	1(1+1)
	Agricultural Economics	AGE-108	2 (1+1)
	Computer Applications	ACA-106	2 (1+1)
	Agricultural Microbiology	AMB-104	2(1+1)
	Work Programme	AWP-109	1(0+1)
TOTAL		19(12+8)	
	II-Semester		
	Fundamentals of Horticulture	AFH-210	2 (1+1)
	Silviculture and Forestry	ASF-211	2 (1+1)
	Elements of Genetics	AEG-212	3(2+1)
	Introduction to Environmental Sciences	AIS-213	2 (1+1)
	Plant Biochemistry and Biotechnology	ABT-214	3(2+1)
	Elementary Statistics	AES-215	2 (1+1)
	Elementary English	AEE-216	2 (1+1)
	Fundamentals of Agronomy	AFA-217	3(2+1)
	Farm Machinery and Power	AMP-218	3(2+1)

Total		22(13+9)	
	III-Semester		
	Fundamentals of Entomology	AFE-319	4(3+1)
	Crop Production Technology – I (<i>Kharif</i> Crops)	ACT-320	2 (1+1)
	Fundamentals of Plant Breeding	APB-321	3 (2+1)
	Fundamentals of Crop Physiology	ACP-322	2(1+1)
	Principles of Seed Technology	AST-323	3 (2+1)
	Fundamentals of Plant Pathology	APP-324	4(3+1)
	Rural Sociology & Educational Psychology	ASE-325	2 (2+0)
	Manures, Fertilizers and Soil Fertility Management	ASM-326	3(2+1)
	Communication Skills and Personality Development	CSP-327	2(1+1)
Total		23(16+8)	
	IV-Semester		
	Crop Production Technology –II (<i>Rabi</i> Crops)	ACT-428	2(1+1)
	Production Technology for Ornamental Crops, MAP and Landscaping	AOL-429	2(1+1)
	Fundamentals of Agricultural Extension Education	AEX-430	2(1+1)
	Livestock and Poultry Management	ALM-431	4 (3+1)
	Pests of Crops and Stored Grain and their Management	APM-432	3 (2+1)
	Production Technology for Vegetables and Spices	AVS-433	2 (1+1)
	Farming System & Sustainable Agriculture	AFS-434	1(1+0)
	Agricultural Finance and Cooperation	AFC-435	3 (2+1)

	Introductory Agro-meteorology & Climate Change	AMC-436	2(1+1)
	Elective Course	AEC-437	3 (2+1)
Total		21(12+8) + 3cr.	
	V-Semester		
	Principles of Integrated Pest and Disease Management	APM-537-8	3(2+1)
	Problematic Soils and their Management	ASM-539	3 (2+1)
	Production Technology for Fruit and Plantation Crops	AFP-540	3 (2+1)
	Diseases of Field and Horticultural Crops and their Management -I	ADM-541	3 (2+1)
	Crop Improvement - I (<i>Kharif</i> Crops)	ACI-542	2 (1+1)
	Rainfed Agriculture & Watershed Management	ARW-543	3 (2+1)
	Management of Beneficial Insects	AMB-544	2 (1+1)
	Practical Crop Production – I (<i>Kharif</i> crops)	ACP-545	2 (0+2)
	Intellectual Property Rights	AIP-546	1(1+0)
	Elective Course	AEC-547	3 credit
Total		26(13+10)+ 3 Credit	
	VI-Semester		
	Entrepreneurship Development and Business Communication	AEB-648	2 (1+1)
	Diseases of Field and Horticultural Crops and their Management-II	ADM-649	3 (2+1)
	Post-harvest Management and Value Addition of Fruits and Vegetables	APH-650	2 (1+1)

	Geoinformatics and Nano-technology for Precision Farming	AGN-651	2 (1+1)
	Crop Improvement-II (<i>Rabi</i> crops)	ACI-652	2 (1+1)
	Practical Crop Production –II (<i>Rabi</i> crops)	ACP-653	2 (0+2)
	Principles of Organic Farming	AOF-654	2 (1+1)
	Farm Management, Production & Resource Economics	AFM-655	2 (1+1)
	Agricultural Marketing Trade & Prices	AMT-656	3(2+1)
	Elective Course (Commercial Plant Breeding)	AEC-657	3 credits
Total		18 (9 + 9)+ 3 cr.	

VII-Semester			
SN.	Rural Agricultural Work Experience and Agro-industrial Attachment (RAWE & AIA)		
	Activities	No. of weeks	Credit Hours
1	General orientation & On campus training by different faculties	1	14
2	Village attachment/ Unit attachment in Univ./ College. KVK/ Res. Stn.	8	
3	Agro-Industrial Attachment	10	06
4	Project Report Preparation, Presentation and Evaluation	1	
Total weeks for RAWE & AIA		20	20

Agro- Industrial Attachment: The students would be attached with the agro-industries for a period of 10 weeks to get an experience of the industrial environment and working.

RAWE Component-I

Village Attachment Training Programme:

Sl. 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	Animal Production Interventions	1 week
7	Extension and Transfer of Technology activities	1 week

RAWE Component –II

Agro Industrial Attachment:

- Students shall be placed in Agro-and Cottage industries and Commodities Boards for 10 weeks.
- 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

Evaluation of RAWE Programme

Attendance: Minimum attendance – 85%.

Records:

Students would complete the record work/ report writing/ presentations, etc. based on daily field observations recorded in notebooks and weekly diaries maintained by them.

Evaluation Procedure:

Students shall be evaluated component-wise under village attachment and agro-industrial attachment. The respective component In-Charge Instructor(s), agro-industrial official and Course Coordinator will evaluate the students as under:

Assessment Parameters (RAW & AIA):

ACTIVITY		Max. Marks
1. Village attachment training:		
a.	KVK/ARS/NGO scientist	50
b.	Report Preparation	10
c.	University Committee (Presentation & Viva-voce)	40
2. Industrial attachment training:		
a.	Industry officials	50
b.	Report Preparation	10
c.	University Committee (Presentation & Viva-voce)	40
	Parameters	Marks (%)
A	Village Attachment:	
	Regularity	10
	Initiative & creativity	10
	General conduct & discipline	10
	Work performance	20
B.	Industrial Attachment:	
	Initiative & compliance	10
	General conduct and discipline	10
	Project planning & implementation	10
	Work performance	20
VIII Semester(Experiential Learning Programme/ HOT)		
	Module	Credit Hr.
	1. Module-I	0+10
	2. Module-II	0+10
	Total	20 (0+20)

Modules for Skill Development and

Entrepreneurship: A student has to register 20

credits opting for two modules of (0+10) credits each (total 20 credits) from the package of modules in the VIII semester.

S. No.	Title of the module	Credits
1.	Bio-agents and Bio-fertilizer production	0+10
2.	Seed Production and Technology	0+10
3.	Mushroom Cultivation	0+10
4.	Soil, plant , water and seed Testing services	0+10
5.	Beekeeping	0+10
6.	Poultry Production	0+10
7.	Applied Hi-Tech Horticulture	0+10
8.	Agri-business management	0+10
9.	Hybrid Seed Production Technologies	0+10
10.	Floriculture and Landscaping	0+10
11.	Food Processing and Food safety standards	0+10
12.	Commercial vegetable production	0+10
13.	Tissue-culture Technologies	0+10
14.	Agriculture Waste Management	0+10
15.	Organic Production Technology	0+10
16.	Agro-advisory Services	0+10
17.	Nursery Management	0+10
18.	Sericulture	0+10
19.	Practicing Protected Horticulture	0+10



Evaluation of Experiential Learning

Programme/ HOT

S. No.	Parameters	Max. Marks
1.	Project Planning and Writing	10
2.	Presentation	10
3.	Regularity	10
4.	Monthly Assessment	10
5.	Output delivery	10
6.	Technical Skill Development	10
7.	Entrepreneurship Skills	10
8.	Business networking skills	10
9.	Report Writing Skills	10
10.	Final Presentation	10
	Total	100

Elective Courses: A student can select three elective courses out of the following and offer during 4th, 5th and 6th semesters.

S.N.	Courses	Credit Hours
1.	Agribusiness Management	3(2+1)
2.	Agrochemicals	3(2+1)
3.	Commercial Plant Breeding	3(1+2)
4.	Soil, Plant, Water and Seed Testing	3(1+2)
5.	Landscaping	3(2+1)
6.	Agricultural Waste Management	3(2+1)
7.	Food Safety Issues	3(2+1)
8.	Bio-pesticides & Bio-fertilizers	3(2+1)
9.	Protected Cultivation	3(2+1)
10.	Micro propagation Technologies	3(1+2)
11.	Hi-tech. Horticulture	3(2+1)