

FIFTH DEANS' COMMITTEE REPORT

Syllabus and Lecture

Schedule for

B.Sc. (Hons) Agriculture



AGRICULTURE UNIVERSITY, KOTA

RAJASTHAN- 324 001

Semester wise course distribution of B.Sc. (Hons) Agriculture

S.No.	Course Code	Title of the Course	Credit Hours
SEMESTER – I			
1.	HORT-111	Fundamentals of Horticulture	2(1+1)
2.	BIOCHEM-111	Fundamentals of Plant Biochemistry and Biotechnology	3(2+1)
3.	SSAC-111	Fundamentals of Soil Science	3(2+1)
4.	HORT-112	Introduction to Forestry	2(1+1)
5.	ENG-111	Comprehension & Communication Skills in English	2(1+1)
6.	AGRON-111	Fundamentals of Agronomy	4(3+1)
7.	BIO-111/ MATHS-111	Introductory Biology* / Elementary Mathematics*	2(1+1)/ 2(2+0)*
8.	AGHR-111	Agricultural Heritage*	1(1+0)*
9.	EXCOM-111	Rural Sociology & Educational Psychology	2(2+0)
10.	EXCOM-112	Human Values & Ethics (non gradial)	1(1+0)**
11.	NSS / NCC / PEYP	NSS /NCC/ Physical Education & Yoga Practices**	2(0+2)**
		Total	18+04*/03*+03 **
* R: Remedial Course ** NC:Non-gradial course			
SEMESTER – II			
1.	GPB-121	Fundamentals of Genetics	3(2+1)
2.	SSAC-121	Agricultural Microbiology	2(1+1)
3.	AGENGG-121	Soil and Water Conservation Engineering	2(1+1)
4.	CPHYS-121	Fundamentals of Crop Physiology	2(1+1)
5.	AGECON-121	Fundamentals of Agricultural Economics	2(2+0)
6.	PPATH-121	Fundamentals of Plant Pathology	4(3+1)
7.	ENTO-121	Fundamentals of Entomology	4(3+1)
8.	EXCOM-121	Fundamentals of Agricultural Extension Education	3(2+1)
9.	EXCOM-122	Communication Skills and Personality Development	2(1+1)
10.	AGRON-121	Introductory Agro-meteorology & Climate Change	—2(1+1)
	NSS/NCC/PEYP	NSS/NCC/Physical Education & Yoga Practices**	To be continued
		Total	24(16+08)
SEMESTER – III			
1.	AGRON-211	Crop Production Technology – I (<i>Kharif</i> Crops)	3(2+1)
2.	GPB-211	Fundamentals of Plant Breeding	3(2+1)
3.	AGECON-211	Agricultural Finance and Cooperation	3(2+1)

4.	AGRINFO-211	Agri- Informatics	2(1+1)
5.	AGENGG-211	Farm Machinery and Power	2(1+1)
6.	HORT-211	Production Technology for Vegetables and Spices	2(1+1)
7.	ESDM-211	Environmental Studies and Disaster Management	3(2+1)
8.	STAT-211	Statistical Methods	2(1+1)
9.	ANISC-211	Livestock and Poultry Management	4(3+1)
	NSS	NSS**	To be continued
		Total	23(14+09)

AGRINFO-211 is to be revised by adding 25% content of ICT with equal deletion from the existing contents of the existing course.

Action – HOH , Department of Statistics, Mathematics & computer Science

SEMESTER – IV

1.	AGRON-221	Crop Production Technology – II (<i>Rabi</i> Crops)	3(2+1)
2.	HORT-221	Production Technology for Ornamental Crops, MAP and Landscaping	2(1+1)
3.	AGENGG-221	Renewable Energy and Green Technology	2(1+1)
4.	SSAC-221	Problematic Soils and their Management	2(2+0)
5.	HORT-222	Production Technology for Fruit and Plantation Crops	2(1+1)
6.	GPB-221	Principles of Seed Technology	3(1+2)
7.	AGRON222	Farming System & Sustainable Agriculture	1(1+0)
8.	AGECON-221	Agricultural Marketing, Trade & Prices	3(2+1)
9.	AGRON-121	Introductory Agro-meteorology & Climate Change	2(1+1)
10.	ENTO-222	Bio-Pesticides and Bio-fertilizers (Elective Course)	3(2+1)
	NSS	NSS**	To be continued
		Total	19(11+8) +3

ENTO-221 is designed as a new course

SEMESTER – V

1.	ENTO-311	Principles of Integrated Pest and Disease Management	3(2+1)
2.	SSAC-311	Manures, Fertilizers and Soil Fertility Management	3(2+1)
3.	ENTO-312	Pests of Crops and Stored Grains and their management	3(3+1)
4.	PPATH-311	Epidemiology And Integrated Disease Management	2(1+1)
5.	PPATH-312	Diseases of Field and Horticultural Crops and their management - I	3(2+1))
6.	GPB-311	Crop Improvement-I (<i>Kharif</i> Crops)	2(1+1)
7.	EXCOM-311	Entrepreneurship Development and Business Communication	2(1+1)
8.	AGRON-311	Geoinformatics and Nano-technology and	2(1+1)

		Precision Farming	
9.	AGRON-312	Practical Crop Production-I (<i>Kharif</i> crops)	2(0+2)
10.	GPB-312	Intellectual Property Rights	1(1+0)
11.	HORT-311	(Elective Course)	3(2+1)
		Total	21(12+09) +3
SEMESTER – VI			
1.	AGRON-321	Rainfed Agriculture & Watershed Management	2(1+1)
2.	AGENGG-321	Protected Cultivation and Secondary Agriculture	2(1+1)
3.	PPATH-321	Diseases of Field and Horticultural Crops and their Management-II	3(2+1)
4.	HORT-321	Post-harvest Management and Value Addition of Fruits and Vegetables	2(1+1)
5.	ENTO-321	Management of Beneficial Insects	2(1+1)
6.	GPB-321	Crop Improvement-II (<i>Rabi</i> crops)	2(1+1)
7.	AGRON-322	Practical Crop Production-II (<i>Rabi</i> crops)	2(0+2)
8.	AGRON-323	Principles of Organic Farming	2(1+1)
9.	AGECON-321	Farm Management, Production & Resource Economics	2(1+1)
10.	HORT-322	Principles of Food Science and Nutrition	2(2+0)
11.	GPB-322	Elective Course	3(2+1)
		Total	21(11+10)+3
SEMESTER – VII			
Rural Agricultural Work Experience and Agri-industrial Attachment (RAWE&AIA)			
S. No.	Activities	No. of weeks	Credit Hours
1.	General orientation & On campus training by different faculties	1	14
2.	(a) Village attachment	8	
	(b) Unit attachment in- University/ College/KVK/ Research Station Attachment	5	
	(c) Plant clinic	2	02
3.	Agro-Industrial Attachment	3	04
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 03 weeks to get an experience of the industrial environment and working.

Educational tour will be conducted in break between IV and V Semester or VI and VII semester.

RAWE:**Component-I****Village Attachment Training Programme**

S. 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 and Storage interventions	1 week
7	Animal Production Interventions	1 week
8	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 03 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

S. No.	Activities and Tasks during Agro-Industrial Attachment Programme
1.	Acquaintance with industry and staff
2.	Study of structure, functioning, objective and mandates of the industry
3.	Study of various processing units and hands-on trainings under supervision of industry staff
4.	Ethics of industry
5.	Employment generated by the industry
6.	Contribution of the industry promoting environment
7.	Learning business network including outlets of the industry Skill development in all crucial tasks of the industry
8.	Documentation of the activities and task performed by the students
9.	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:

ACTIVITY	Max. Marks
1. Village attachment training	