

SEMESTER WISE COURSE OF AGRICULTURE AS PER 5th DEANS COMMITTEE**FIRST SEMESTER**

No.	Course No.	Title of course	Credit	Total
1.	Agron.1.1	Agricultural Heritage	1+0	1
2.	Ag.Chem.1.1	Fundamental of Soil Science	2+1	3
3.	Ag.Met.1.1	Introductory Agro meteorology & Climate Change	1+1	2
4.	Ag.Micro.1.1	Agricultural Microbiology	1+1	2
5.	Ag.Stat.1.1	Agricultural Informatics	2+1	3
6.	GPB.1.1	Introductory Biology	1+1	2
7.	Hort.1.1	Fundamentals of Horticulture	1+1	2
8.	Pl.Path.1.1	Fundamentals of Plant Pathology	2+1	3
9.	Eng.1.1	Comprehension and Communication Skills in English	1+1	2
10.	Maths.1.1	Elementary Mathematics	2+0	2
11.	PE	NSS/NCC/Physical Education & Yoga Practices (Non-gradial)	-	-
TOTAL			14+8	22

SECOND SEMESTER

No.	Course No.	Title of course	Credit	Total
1.	Agron.2.2	Fundamentals of Agronomy	3+1	4
2.	Ag.Chem.2.2	Manures, Fertilizers and Soil Fertility Management	2+1	3
3.	Ag.Stat.2.2	Statistical Methods	2+1	3
4.	Ag.Econ.2.1	Fundamentals of Agricultural Economics	2+0	2
5.	Ag.Engg.2.1	Introductory Soil and Water Conservation Engineering	1+1	2
6.	Biochem.2.1	Fundamentals of Plant Biochemistry	2+1	3
7.	GPB.2.2	Fundamentals of Genetics	2+1	3
8.	Hort.2.2	Production Technology for Fruit and Plantation Crops	1+1	2
9.	Pl.Path.2.2	Introductory Plant Nematology	1+1	2
10	HVE.2.1*	Human Value & Ethics (Non-gradial)	1+0	1*
11.	PE.2.1*	NSS/NCC/Physical Education & Yoga Practices(Non-gradial)	0+1*	1*
TOTAL			16+8+2*	24+2*

THIRD SEMESTER

No.	Course No.	Title of course	Credit	Total
1.	Agron.3.3	Crop Production Technology-I (<i>Kharif</i> Crops)	1+1	2
2.	Ag.Chem.3.3	Problematic Soils and their Management	2+1	3
3.	Ag.Ento.3.1	Fundamentals of Entomology	2+1	3
4.	Ag.Econ.3.2	Agricultural Finance and Co-operation	2+1	3
5.	Ag.Engg.3.2	Farm Machinery and Power	1+1	2
6.	Ag.Ext.3.1	Fundamentals of Agricultural Extension Education	2+1	3
7.	GPB.3.3	Fundamentals of Plant Breeding	2+1	3
8.	Hort.3.3	Production Technology for Vegetables and Spices	1+1	2
9.	Pl.Phy.3.1	Fundamentals of Crop Physiology	2+1	3
10.	PE	NSS/NCC/Physical Education & Yoga Practices (Non-gradial)	--	-
TOTAL			15+9	24

FOURTH SEMESTER

No.	Course No.	Title of course	Credit	Total
1.	Agron.4.4	Crop Production Technology-II (Rabi Crops)	1+1	2
2.	Agron.4.5	Weed Management	2+1	3
3.	Ag.Ento.4.2	Principles of Integrated Pest Management	1+1	2
4.	Ag.Ento.4.3	Management of Beneficial Insects	1+1	2
5.	Ag.Econ.4.3	Agricultural Marketing, Trade and Prices	2+1	3
6.	Ag.Engg.4.3	Renewable Energy and Green Technology	1+1	2
7.	Ag.Ext.4.2	Rural Sociology and Educational Psychology	2+0	2
8.	Pl.Path.4.3	Principles of Integrated Disease Management	1+1	2
9.	GPB.4.4	Principles of Seed Technology	2+1	3
10.	GPB.4.5	Intellectual Property Rights	1+0	1
11.	Hort.4.4	Production Technology for Ornamental Crops, MAP and Landscaping	1+1	2
12.	PE.4.2*	NSS/NCC/Physical Education & Yoga Practices(Non-gradual)	0+1*	1*
		TOTAL	15+9+1	24+1*

FIFTH SEMESTER

No.	Course No.	Title of course	Credit	Total
1.	Agron.5.6	Farming System and Sustainable Agriculture	1+0	1
2.	Agron.5.7	Geo-informatics and Precision Farming	1+1	2
3.	Agron.5.8	Practical Crop Production-I (<i>Kharif</i> Crops)	0+1	1
4.	Biotech.5.1	Introductory Biotechnology	1+1	2
5.	Ag.Ento.5.4	Pest of Crops and Stored Grains and their Management	2+1	3
6.	Ag.Engg.5.4	Protected Cultivation and Secondary Agriculture	1+1	2
7.	Ag.Ext.5.3	Communication Skills and Personality Development	1+1	2
8.	Pl.Path.5.4	Diseases of Field and Horticultural Crops and Their Management-I	2+1	3
9.	GPB.5.6	Crop Improvement-I	1+1	2
10.	LPM.5.1	Ruminant Production and Management	2+1	3
11.	Hort.5.5	Landscaping	2+1	3
		TOTAL	14+10	24

SIXTH SEMESTER

No.	Course No.	Title of course	Credit	Total
1.	Agron.6.9	Principles of Organic Farming	1+1	2
2.	Agron.6.10	Rainfed Agriculture and Watershed Management	1+1	2
3.	Agron.6.11	Practical Crop Production-II (Rabi Crops)	0+1	1
4.	Ag.Econ.6.4	Farm Management, Production and Resource Economics	2+1	3
5.	Ag.Ext.6.4	Entrepreneurship Studies and Business Communication	1+1	2
6.	Pl.Path.6.5	Disease of Field and Horticultural Crops and their Management-II	2+1	3
7.	GPB.6.7	Crop Improvement -II	1+1	2
8.	Hort.6.6	Post-harvest Management and Value Addition of Fruits and Vegetables	1+1	2
9.	LPM.6.2	Poultry Production and Management	1+1	2
10.	Env.6.1	Environmental studies and Disaster Management	2+1	3
11.	Ag.Micro.6.2	Bio-pesticides & Bio-fertilizers	2+1	3
		TOTAL	14+11	25

The Student READY programme is to be implemented in fourth year of under graduation. It consists of **Rural Awareness Works Experience (RAWE)** and **Agro-Industrial Attachment (AIA)** during **seventh semester** and **Experiential Learning Programme (ELP)** during **eighth semester**. The semester wise detail of the programme is as under.

Semester VII

Rural Awareness Works Experience(RAWE) and Agro-Industrial Attachment(AIA) is to be under taken by the students in this semester for a total duration of 20 weeks with weightage of 0+20 credit hours. Credit hours are allotted on the basis of duration of each phase of the program. RAWE and AIA program consists of six phases. The detail is as under

PHASE-WISE DISTRIBUTION OF WORKING DAYS IN RAWE

SN	Course No.	Credit	P1	P2	P3	P4	P5	P6	Total
1	Agron.7.12	0+2	1	4	4	2	-	2	13
2	Ag.Chem.7.5	0+2	1	4	4	2	-	2	13
3	GPB.7.9	0+2	1	4	4	2	-	2	13
4	Pl.Path.7.6	0+2	1	4	4	2	-	2	13
5	Ag.Ento.7.6	0+2	1	4	4	2	-	2	13
6	Hort.7.7	0+2	1	3	3	4	-	2	13
7	Ag.Econ.7.5	0+1	1	1	1	1	-	1	5
8	Ag.Extn.7.5	0+2	1	1	1	1	-	1	5
9	Ag.Stat.7.3	0+1	0.5	1	1	0.5	-	1	4
10	Ag.Engg.7.5	0+1	1	1	1	4	-	1	8
11	LPM.7.3	0+1	0.5	1	1	0.5	-	1	4
12	ET.7.1*	0+2	-	-	-	-	21	-	21
Total working days		0+20	10	28	28	21	21	17	125
Total Saturday for missed & Extra work			2	5	5	4	-	4	20
Holiday			1	4	4	3	-	3	15
Total Days			13	37	37	28	21	24	160

* Non-gradual courses

P1= Orientation Phase

P2= On Campus Training and Research Station Phase

P3= Village and KVK Attachment Phase

P4= Agro Industrial Attachment (AIA)

P5= Exposure Tour

P6 =Project Report Preparation / Presentation Phase

Based on the facilities and feasibility at the respective SAUs exposure under different phases may be changed provided that total weeks remains 20 and accordingly, the distribution of 100 marks will be as under for above all the phases periodically / end of the phase.

Marks distributions of RAWE as per students READY programme :

No.	Marks distribution	Marks
A.	Internal Evaluation	
A1	Work Diary	05
A2	Attendance and diligence	05
A3	Performance during placement	20
A4	Group discussion / Presentation	20
	Sub Total	50
B.	External Evaluation (Semester End Exam)	30
C.	Project Work	20
	Sub Total	50
	Grand Total	100

SEMESTER VIII

Experiential Learning Programme (ELP) is to be under taken by the students in this semester for a total duration of 24 weeks with weightage of 0+20 credit hours.

Sr. No.	Title of module	Credit
1	ELP module - 1	0+10
2	ELP module - 2	0+10
	Total	0+20

The students has to register for any two modules of 0+10 credit hours each listed below.

No.	Title of the module	Credits
1	Production Technology for Bio-agents and Bio-fertilizer	0+10
2	Seed Production and Technology/ Plant Tissue Culture Technology	0+10
3	Mushroom Cultivation Technology	0+10
4	Soil, Plant, Water and Seed Testing	0+10
5	Commercial Beekeeping	0+10
6	Poultry Production Technology	0+10
7	Commercial Horticulture	0+10
8	Floriculture and Landscaping	0+10
9	Food Processing	0+10
10	Agriculture Waste Management	0+10
11	Organic Production Technology	0+10
12	Commercial Sericulture	0+10

At present the facility available at the College of Agriculture, JAU, Junagadh the following six modules has been implemented from the academic year - 2016-17. On the basis of merit in each module equal number of students is to be allotted.

No.	Title of the module	Module Code	Credits
1	Quality Seed Production of Field Crops	ELP.8.1	0+10
2	Soil, Water, Plant & Seed Testing	ELP.8.2	0+10
3	Commercial Bio-Agent Production	ELP.8.3	0+10
4	Production Technology for Bio-Fertilizer & Bio-Agent.	ELP.8.4	0+10
5	Plant Tissue Culture Technology	ELP.8.5	0+10
6	Nursery Management & Protected Cultivation	ELP.8.6	0+10

The SAU is free to select the module based on the availability of the facilities at respective University in future. The distribution of 100 marks is as under for each of the two modules end of the ELP module.

Marks distributions of ELP as per students READY programme :

The HoD will form a committee of three members of the discipline and will evaluate the enrolled students by considering the following aspects.

No.	Aspects of Evaluation	Marks
1.	Project Planning & Writing	10 Marks
2.	Initial Presentation	10 Marks
3.	Regularity	10 Marks
4.	Monthly Assessment	10 Marks
5.	Output Delivery	10 Marks
6.	Technical Skill Development	10 Marks
7.	Entrepreneurship Skill	10 Marks
8.	Business Networking Skill	10 Marks
9.	Report Writing Skill	10 Marks
10.	Final Presentation	10 Marks
	TOTAL	100 Marks