		Semester wise Courses in B.Sc.(Ho Semester I	ons.) A	gricultu	ire	
	Course Code	Course Title	Credit Distribution			MM
			Т	Р	Total	100
	BSAC-101	Fundamentals of Horticulture	1	1	2	100
1.	BSAC-102	Fundamentals of Plant Biochemistry and Biotechnology	2	1	3	100
2.	BSAC-103	Fundamentals of Soil Science	2	1	3	100
3.	BSAC-104	04 Introduction to Forestry		1	2	100
4.	BSAC-105	BSAC-105Comprehension & Communication Skills in English112				100
5.	BSAC-106	Fundamentals of Agronomy	3	1	4	100
6.	BSAR-107	Introductory Biology*/Elementary	1/2	1/0	2/2	100
	BSAR-108	Mathematics*				
7.	BSAR-109	Agricultural Heritage*	1	0	1	100
8.	BSAC-110	Rural Sociology & Educational Psychology			2	100
9.	BSAN-111	Human Values & Ethics (non gradial)	1	0	1	100
10.	BSAN-112/	NSS/NCC/Physical Education &	0	2	2	100
	BSAN-113/	Yoga Practices**				
	BSAN-114					
		of Courses C:Core Courses(07) Course(02);**N:Non gradial course(02)			se wise Tota R:03, N:03	
		Semester-II				
	Course	Course Title			Credit	MM
	Code				Distribution	
			1	T P	P Tot	t <b>al</b> 100

1.	BSAC-201	Fundamentals of Genetics		2	1	3	100
2.	BSAC-202	Agricultural Microbiology		1	1	2	100
3.	BSAC-203	Soil and Water Conservation Engine	eering	1	1	2	100
4.	BSAC-204	Fundamentals of Crop Physiology		1	1	2	100
5.	BSAC-205	Fundamentals of Agricultural Econo	mics	2	0	2	100
6.	BSAC-206	Fundamentals of Plant Pathology		3	1	4	100
7.	BSAC-207	Fundamentals of Entomology		3	1	4	100
8.	BSAC-208	Fundamentals of Agricultural Exten Education	sion	2	1	3	100
9.	BSAC-209	Communication Skills and Personal Development	Communication Skills and Personality 1 Development		1	2	100
	BSAN-110/	NSS/NCC/Physical Education & Yo	oga	0	2	2	100
	BSAN-111/	Practices**					
		of Courses C:Core Courses(09) *R:Reme N:Non gradial course(Nil)	edial				Total credits N:Nil=26
	Total Number		edial	Cre	C:24		N:Nil=26
	Total Number Course(Nil);** Semester -III	N:Non gradial course(Nil)	edial	Cre	C:24	, <b>R:02</b> , ∃	N:Nil=26
1.	Total Number Course(Nil);** Semester -III Course	N:Non gradial course(Nil)			C:24	, R:02, 1 stributio Total	N:Nil=26
	Total Number Course(Nil);** Semester -III Course Code	N:Non gradial course(Nil) Course Title Crop Production Technology – I	T		C:24	, R:02, 1 stributio Total	N:Nil=26
2.	Total Number Course(Nil);** Semester -III Course Code BSAC-301	N:Non gradial course(Nil) Course Title Crop Production Technology – I <i>(Kharif Crops)</i>	<b>T</b>	<b>P</b> 1	C:24	, R:02, 1 stributio Total	N:Nil=26
2. 3.	Total Number Course(Nil);**         Semester -III         Course Code       Course         BSAC-301       BSAC-302	N:Non gradial course(Nil) Course Title Crop Production Technology – I <i>(Kharif Crops)</i> Fundamentals of Plant Breeding Agricultural Finance and	<b>T</b> 1 2	P 1 1	C:24	, <b>R:02</b> , 1 stributio Total	N:Nil=26
1. 2. 3. 4. 5.	Total Number Course(Nil);**         Semester -III         Course Code         BSAC-301         BSAC-302         BSAC-303	N:Non gradial course(Nil) Course Title Crop Production Technology – I <i>(Kharif Crops)</i> Fundamentals of Plant Breeding Agricultural Finance and Cooperation	<b>T</b> 1 2 2	P 1 1 1	C:24	, <b>R:02</b> , 1 stributio Total	N:Nil=26
2. 3. 4.	Total Number Course(Nil);**         Semester -III         Course Code         BSAC-301         BSAC-302         BSAC-303         BSAC-304	N:Non gradial course(Nil) Course Title Crop Production Technology – I <i>(Kharif Crops)</i> Fundamentals of Plant Breeding Agricultural Finance and Cooperation Agri- Informatics	<b>T</b> 1 2 2 1	P 1 1 1 1 1	C:24	, <b>R:02</b> , 1 stributio Total	N:Nil=26 DN MM 100 100 100 100

8.	BSAC-308	Statistical Methods	1	1	2	100			
9.	BSAC-309	Livestock and Poultry Management	3	1	4	100			
		f Courses C:Core Courses(09) urse(Nil);**N:Non gradial course(Nil)	Course wise Total credits C:23, R:Nil, N:Nil						
Semester-IV									
	Course	Course Title		Credi	t Distribut	ion			
	Code		Т	Р	Total	ММ			
1.	BSAC-401	Crop Production Technology –II (Rabi Crops)	1	1	2	100			
2.	BSAC-402	Production Technology for Ornamental Crops, MAP and Landscaping	1	1	2	100			
3.	BSAC-403	Renewable Energy and Green Technology	1	1	2	100			
4.	BSAC-404	Problematic Soils and their Management	2	0	2	100			
5.	BSAC-405	Production Technology for Fruit and Plantation Crops	1	1	2	100			
6.	BSAC-406	Principles of Seed Technology	2	1	3	100			
7.	BSAC-407	Farming System & Sustainable Agriculture	1	0	1	100			
8.	BSAC-408	Agricultural Marketing Trade & Prices	2	1	3	100			
9.	BSAC-409	Introductory Agro-meteorology & Climate Change	1	1	2	100			
10.	Given in the list	Elective Course(one course can be selected from the list of Elective Courses)	2	1	3	100			
		f Courses C:Core Courses(09) urse(Nil);**N:Non gradial course(Nil); 01			se wise Tota R:Nil, N:N				

		Semester-V				
	Course	Course Title	Credit Distribution			
	Code		Т	Р	Total	MM
1.	BSAC-501	Principles of Integrated Pest and Disease Management	2	1	3	100
2.	BSAC-502	Manures, Fertilizers and Soil Fertility Management	2	1	3	100
3.	BSAC-503	Pests of Crops and Stored Grain and their Management	2	1	3	100
4.	BSAC-504	Diseases of Field and Horticultural Crops and their Management -I	2	1	3	100
5.	BSAC-505	Crop Improvement-I (Kharif Crops)	1	1	2	100
6.	BSAC-506	AC-506 Entrepreneurship Development and Business Communication		1	2	100
7.	BSAC-507	Geoinformatics and Nano- technology and Precision Farming	1	1	2	100
8.	BSAC-508	Practical Crop Production – I ( <i>Kharif</i> crops)	0	2	2	100
9.	BSAC-509	Intellectual Property Rights	1	0	1	100
10.	Given in the list	Elective Course(one course can be selected from the list of Elective Courses)	2	1	3	100
		of Courses C:Core Courses(09) Course(nil);**N:Non gradial course(Nil); e:01			se wise Tota R:Nil, N:Ni	
		Semestee-VI				
	Cou	Course Title	Credit Distribution			on
	rse Cod e		Т	Р	Total	MM
1.	BSAC-601	Rainfed Agriculture & Watershed Management	1	1	2	100
2.	BSAC-602	Protected Cultivation and Secondary Agriculture	1	1	2	100

3.	BSAC-603	Diseases of Field and Horticultural Crops and their Management-II	2	1	3	100		
4.	BSAC-604	Post-harvest Management and Value Addition of Fruits and Vegetables	1	1	2	100		
5.	BSAC-605	Management of Beneficial Insects	1	1	2	100		
6.	BSAC-606	Crop Improvement-II (Rabi crops)	1	1	2	100		
7.	BSAC-607	Practical Crop Production –II ( <i>Rabi</i> crops)	0	2	2	100		
8.	BSAC-608	Principles of Organic Farming	1	1	2	100		
9.	BSAC-609	Farm Management, Production & Resource Economics	1	1	2	100		
10.	BSAC-610	Principles of Food Science and Nutrition	2	0	2	100		
11.	Given in the list	Elective Course(one course can be selected from the list of Elective Courses)	2	1	3	100		
	Total Number of Courses C:Core Courses(10)			Course wise Total credits				
	*R:Remedial Course(Nil);**N:Non gradial course(Nil); Elective Course:01				C:21, R:Nil, N:Nil,E:03=24			

### I. Student READY (Rural and Entrepreneurship Awareness Development Yojana)

To reorient graduates of agriculture and allied subjects for ensuring and assuring employability and to develop entrepreneurs for emerging knowledge intensive agriculture, the component envisages the introduction of the program in all the agricultural universities as an essential prerequisite for the award of degree to ensure hands on experience and practical training. Considering the variation in different streams of agricultural education and feasibility, the Committee proposes to include the following five components, which are interactive and are conceptualized for building skills in project development and execution, decision-making, individual and team coordination, approach to problem solving, accounting, quality control, marketing and resolving conflicts, etc. with end to end approach in Student READY program.

i. Experiential Learning/Hands on Training
ii. Skill Development Training
iii. Rural Agriculture Work Experience
iv. In Plant Training/ Industrial attachment
v. Students Projects

The students will be required to have any three of the five components listed above depending on the requirement of their graduate education but it should be implemented for the complete year, so that their education upto level of III year may get right information in IV year and finally they should attend right stage of entrepreneurship.

Rural A	gricultural Work Experience an	d Agro-industrial Att	achment(RAWE &AIA)
Course	Code: E	38AW-701	20(0+20)
SN.	Rural Agricultural Work E (RAWE &AIA)	xperience and Agro-i	ndustrial Attachment
	Activities	No. of weeks	Total Credits
1	General orientation & On campus training by different faculties	1	
2	Village attachment	4	10
3	Unit attachment in Univ./ College. KVK/ Research Station Attachment	1	
4	Plant clinic	4	
	Total	10	10
5	Agro-Industrial Attachment	3	
6	Field Visit	5	
7	Project Report Preparation, Presentation and Evaluation	2	
Total w	eeks for RAWE & AIA	10+10=20	10+10=20

## RAWE Component –II Agro Industrial Attachment

- Students shall be placed in Agro-and Cottage industries and Commodities Boards for03 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 pattern & distribution of Marks for RAWE & AIA:

Type of attchment	Daily observation Notes((20)	Report Writing (20)	Presentation /Viva(20)	Written Test(20)	Regularity (20)	MM	
Village	10	10	10.	10	10	50	
Agro- Industry	10	10	10.	10	10	50	
Grand Total							

### Semester VIII Course Code: BSAL-801

#### 20(0+20)

Modules for Experiential Learning Programme (ELP) 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 ELP modules in the VIII Semester from the list provided below:

Sr.	Title of the ELP module	Credits(T+P)
1.	Production Technology for Bioagents and Biofertilizer	0+10
2.	Seed Production and 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

NOTE: In addition to above ELP modules other important modules may be given to the students by the University

## Evaluation pattern & distribution of Marks for ELP:

1	Parameters	Max. Marks
	Project Planning and Writing	10
	Presentation	10
	Regularity	10
	Monthly Assessment	10
	Output delivery	10
1	Technical Skill Development	10
	Entrepreneurship Skills	10
1	Business networking skills	10
	Report Writing Skills	10
	Final Presentation	10
	Total	100

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

S.N.	Course Code	Courses	Credit Hours
1.	BSAE-101	Agribusiness Management	3(2+1)

2.	<b>BSAE-102</b>	Agrochemicals	3(2+1)
3.	BSAE-103	Commercial Plant	3(1+2)
		Breeding	
4.	BSAE-104	Landscaping	3(2+1)
5.	BSAE-105	Food Safety and	3(2+1)
		Standards	
6.	<b>BSAE-106</b>	Biopesticides &	3(2+1)
		Biofertilizers	
7.	<b>BSAE-107</b>	Protected	3(2+1)
		Cultivation	
8.	<b>BSAE-108</b>	Micro propagation	3(1+2)
		Technologies	
9.	<b>BSAE-109</b>	Hi-tech.	3(2+1)
		Horticulture	
10.	<b>BSAE-110</b>	Weed Management	3(2+1)
11.	BSAE-111	System Simulation	3(2+1)
		and Agro-advisory	
12.	BSAE-112	Agricultural	3(2+1)
		Journalism	