

Course Structure of B.Sc (Ag) I Semester													
Course Code No.	Title of the Course	Credits (L+T+P)	Theory				Sessionals		Practicals				Total Marks
			Major		Minor		Max marks	Min Marks	Term End		Lab Work		
			Max marks	Min Marks	Max marks	Min Marks			Max marks	Min Marks	Max marks	Min Marks	
ABAG 101	Introductory Agriculture tyt	1(1+0+0)	50	17	20	7	30	12	-	-	-	-	100
ABAG 102	Principles of Agronomy & Agricultural Meteorology	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABPB 101	Morphology and Systematics of crop plants	1(1+0+0)	50	17	20	7	30	12	-	-	-	-	100
ABSC 101	Introduction to Soil Science	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABPA 101	Introductory plant pathology	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABMB 101	Agricultural Microbiology	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABAE 101	Fundamentals of Soil, Water and Conservation Engineering	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABHO 101	Fundamentals of Horticulture	1(1+0+0)	50	17	20	7	30	12	-	-	-	-	100
ABEN 101	Insect Morphology, Physiology and Systematics	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
HBEN 101	Comprehension and Communication Skills in English	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
	<b>Total</b>	<b>21(14+0+7)</b>											<b>1350</b>

Minimum Passing Marks are equivalent to Grade D in individual subjects. L- Lectures T- Tutorials P- Practicals

\*\*\* Sessional' weightage - `Attendance 50 % , Four Class Tests /Assignments 50%

Course Structure of B.Sc (Ag) II Semester													
Course Code No.	Title of the Course	Credits (L+T+P)	Theory				Sessionals		Practicals				Total Marks
			Major		Minor		Max marks	Min Marks	Term End		Lab Work		
			Max marks	Min Marks	Max marks	Min Marks			Max marks	Min Marks	Max marks	Min Marks	
ABAG 203	Irrigation and Water Management	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABAG 204	Weed management	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABPB 202	Principles of Genetics & Cytogenetics	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABEC 201	Principles of Agricultural Economics	2(2+0+0)	50	17	20	7	30	12	-	-	-	-	100
ABEN 202	Insect Ecology and Integrated Pest Management including Beneficial Insects	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABEX 201	Sociology and Psychology as applied to Agricultural Extension	2(2+0+0)	50	17	20	7	30	12	-	-	-	-	100
ABAE 202	Farm Power and Machinery	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABHO 202	Production Technology of Fruit Crops	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABST 201	Basic Statistics	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
NSS /NCC/ Phed.12 01	NSS/NCC./Physical Education (Non-credit)	1(0+0+1)	-	-	-	-	-	-	25	8	25	8	50
	<b>Total</b>	<b>22(15+0+7)</b>											<b>1300</b>

Minimum Passing Marks are equivalent to Grade D in individual subjects. L- Lectures T- Tutorials P- Practicals

\*\*\* Sessional' weightage - `Attendance 50 % , Four Class Tests /Assignments 50%

Course Structure of B.Sc (Ag) III Semester													
Course Code No.	Title of the Course	Credits (L+T+P)	Theory				Sessionals		Practicals				Total Marks
			Major		Minor		Max marks	Min Marks	Term End		Lab Work		
			Max marks	Min Marks	Max marks	Min Marks			Max marks	Min Marks	Max marks	Min Marks	
ABAG 305	Field crops-I	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABPB 303	Principles of Plant Breeding	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABSC 303	Organic farming and Soil Health	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABEC 302	Agricultural Finance and Co- operation	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABPA 302	Principles of crop disease management	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABHO 303	Landscaping and Ornamental horticulture	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABEX 302	Agricultural Extension and Rural Development	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABCA 301	Introduction to Computer Applications	2(1+0+1)	50	17	20	7	30	12	-	-	-	-	150
ABPP 301	Crop Physiology	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABSC 302	Agricultural Biochemistry	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
		<b>24(14+0+10)</b>											<b>1500</b>

Minimum Passing Marks are equivalent to Grade D in individual subjects. L- Lectures T- Tutorials P- Practicals

\*\*\* Sessional' weightage - `Attendance 50 % , Four Class Tests /Assignments 50%

Course Structure of B.Sc (Ag) IV Semester													
Course Code No.	Title of the Course	Credits (L+T+P)	Theory				Sessionals		Practicals				Total Marks
			Major		Minor		Max marks	Min Marks	Term End		Lab Work		
			Max marks	Min Marks	Max marks	Min Marks			Max marks	Min Marks	Max marks	Min Marks	
ABAG 406	Practical crop production (Rice)	1(0+0+1)	-	-	-	-	-	-	-	-	25	8	50
ABAG 407	Field crops II	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABAH 401	Livestock Production and Management	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABSC 404	Fertilizers and Agro-chemicals	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABEN 403	Pests of crops and stored Grain and their Management	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABEC 403	Production Economics and Farm Management	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABHO 404	Production Technology of Vegetable Crops	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABBT 401	Principles of Plant Biotechnology, Bio-safety Rules and Intellectual Property Rights	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABHS 401	Food and Nutrition	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
SASS 401	Agricultural Journalism (Extn) (Skill Course) OR	3(1+0+2)	25	8	10	4	15	6	50	17	50	17	150
SASS 402	Visuals and Graphic Communication (Extn) (Skill Course)	3(1+0+2)	25	8	10	4	15	6	50	17	50	17	150
<b>Total</b>		<b>24(13+0+11)</b>											<b>1400</b>

Minimum Passing Marks are equivalent to Grade D in individual subjects. L- Lectures T- Tutorials P- Practicals

\*\*\* Sessional' weightage - `Attendance 50 % , Four Class Tests /Assignments 50%

Course Structure of B.Sc (Ag) V Semester													
Course Code No.	Title of the Course	Credits (L+T+P)	Theory				Sessionals		Practicals				Total Marks
			Major		Minor		Max marks	Min Marks	Term End		Lab Work		
			Max marks	Min Marks	Max marks	Min Marks			Max marks	Min Marks	Max marks	Min Marks	
ABAG 508	Cropping pattern and Farming systems	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABPB 504	Breeding of Crops and Intellectual Property Rights	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABSC 505	Soil Chemistry, soil fertility and Nutrient Management	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABEC 504	Agricultural Marketing , Trade and Prices	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABAE 503	Protected Cultivation and Post –Harvest Technology	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABPA 503	Disease of field crops and their management	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABHO 505	Production Tecgnology of Spices, Medicinal plants and Plantation Crops	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABEX 503	Communication and Extension Methodologies for Transfer of Agricultural Technology	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABST 502	Design and Analysis of Experiments	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABSS 503	Behavioral Skills (Extn & Hmsc) (Skill Course) OR	3(1+0+2)	25	8	10	4	15	6	50	17	50	17	150
ABSS 504	Government Policies and Programmes related to Agriculture (Extn & Econ)	3(1+0+2)	25	8	10	4	15	6	50	17	50	17	150
<b>Total</b>		<b>25(14+0+11)</b>											<b>1500</b>

Minimum Passing Marks are equivalent to Grade D in individual subjects. L- Lect. T- Tuto. P- Pra.\*\*\* Sessional' weightage –Atten. 50 %, Four Class Tests /Assignments 50%

Course Structure of B.Sc (Ag) VI Semester													
Course Code No.	Title of the Course	Credits (L+T+P)	Theory				Sessionals		Practicals				Total Marks
			Major		Minor		Max marks	Min Marks	Term End		Lab Work		
			Max marks	Min Marks	Max marks	Min Marks			Max marks	Min Marks	Max marks	Min Marks	
ABAG 609	Sustainable Agriculture and Organic Farming	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABSC 606	Environmental Science	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABPB 605	Principles of Seed Technology	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABEN 604	Plant Parasitic Nematodes, other Non insect Pests and their Management	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABEC 605	Fundamentals of Agri-Business Management (including Product Development, Appraisal and Monitoring)	2(1+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABAE 604	Renewable Energy	1(1+0+0)	50	17	20	7	30	12	-	-	-	-	100
ABPA 604	Diseases of Horticultural Crops and their management	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
ABHO 606	Post-Harvest Management and Processing of horticultural crop	3(2+0+1)	50	17	20	7	30	12	25	8	25	8	150
SASS 605	Livestock, Poultry and Fish Marketing (AH & Econ) (Skill Course) OR	3(1+0+2)	50	17	20	7	30	12	25	8	25	8	150
SASS 606	Farm Planning and Budgeting (Econ) (Skill Course)	3(1+0+2)	50	17	20	7	30	12	25	8	25	8	150
STTR 601	Study tour ( Non credit)	1(0+0+1) (Non-credit)							25	8	25	8	50
	<b>Total</b>	<b>20(11+0+09)</b>											1350

Minimum Passing Marks are equivalent to Grade D in individual subjects. L- Lec. T- Tut. P- Pra.\*\*\* Sessional' weightage - `Attendance 50 % , Four Class Tests /Assignments 50%

Course Structure of B.Sc (Ag) VII Semester														
Course Code No.	Title of the Course	Credits (L+T+P)	Theory				Sessionals		Practicals				Total Marks	
			Major		Minor		Max marks	Min Marks	Term End		Lab Work			
			Max marks	Min Marks	Max marks	Min Marks			Max marks	Min Marks	Max marks	Min Marks		
ABEX 705	Rural Agricultural Work Experience	25(0+0+25)	-	-	-	-	-	-	-	-	-	-	-	1000
	<b>Total</b>	<b>25(0+0+25)</b>								<b>500</b>	<b>170</b>	<b>500</b>	<b>170</b>	<b>1000</b>

**Rural Agricultural Work Experience (RAWE):** Under this programme the following model will be followed:

Sl.No.	Activity	Duration (Weeks)
1	Orientation	1
2	Village attachment	4
3	Agri-clinics / Plant Health Clinics / Experiential leaning /Industrial Attachment	10
4	Project report preparation and examination	2
	<b>Total</b>	<b>17</b>

**RAWEP Attachment with Agro-based Industries:**

During RAWEP Programme the students will undergo internship in any one of the following industries / companies / institutes for a period of twelve weeks (the list is only suggestive and need based / location specific industries may be included).

- Seed industries / companies
- Fertilizer industries
- Pesticides industries
- Biotechnological industries (Tissue Culture labs)
- Bio pesticides industries
- Commercial nurseries / landscaping units
- Sericulture units
- Food processing units
- Agricultural finance Institutions / Banks / Credit Societies etc.
- Non – Governmental organizations

**Evaluation of RAWEP Programme**

**Attendance: Minimum attendance for this programme - 85%.**

Course Structure of B.Sc (Ag) VIII Semester													Total Marks
Course Code No.	Title of the Course	Credits (L+T+P)	Theory				Sessionals		Practicals				
			Major		Minor		Max marks	Min Marks	Term End		Lab Work		
			Max marks	Min Marks	Max marks	Mim Marks			Max marks	Min Marks	Max marks	Min Marks	
ABEX 604	Entrepreneurship Development and Extension Management	2(1+0+1)	50	17	20	7	30	12					100
SA series	Experiential Learning Courses from amongst listed SA Series Courses of minimum 18 credits	18	50	17	20	7	30	12	25	8	25	8	900
<b>Total</b>		<b>20</b>											<b>1000</b>

Skill Courses for Experiential Learning				
<b>I</b>	<b>Crop production</b>			
1	SACP 801	Seed Production Technology ( <b>Agro &amp; PB&amp;G</b> )		3 (2+0+1)
2	SACP 802	Water Management (Watershed Micro-irrigation Problematic water) (Agro, Engg. & S.S & Agrl. Chem)		4 (3+0+1)
3	SACP 803	Integrated Farming System ( <b>Agro &amp; AH</b> )		3 (2+0+1)
4	SACP 804	Soil Management (Conservation, Problematic Soil, Soil Quality) (S.S and Agrl.Chem, Engg & Agro)		4 (3+0+1)
<b>II</b>	<b>Plant protection</b>			
1	SAPP 801	Integrated pest and disease management ( <b>Ento and Path</b> )		4 (2+0+2)
2	SAPP 802	Management of Post Harvest insect pests and diseases ( <b>Ento &amp; Path</b> )		3 (1+0+2)
3	SAPP 803	Mushroom cultivation ( <b>Path</b> )		2 (0+0+2)
4	SAPP 804	Bio-control agents and bio-pesticides (mass production and uses) ( <b>Micro, Path &amp; Ento</b> )		3(1+0+2)
<b>III</b>	<b>Horticulture</b>			
1	SAHO 801	Commercial Vegetable Production ( <b>Hort</b> )		3(1+0+2)
2	SAHO 802	Commercial Floriculture ( <b>Hort</b> )		3(1+0+2)
3	SAHO 803	Commercial Fruit Production ( <b>Hort</b> )		3(1+0+2)
4	SAHO 804	Landscape designing and Indoor Gardening Techniques ( <b>Floriculture</b> )		2(1+0+1)
<b>IV</b>	<b>Post Harvest Technology and Value addition</b>			
1	SAPH 801	Post harvest Technology of Horticultural corps ( <b>Proc</b> )		3(1+0+2)



2	SAPH 802	Unit operation for quality value addition processing and development of new products <b>(Proc &amp; Engg)</b>	4(1+0+3)
3	SAPH 805	Post harvest handling of cut flowers and dry flowers <b>(Pomol &amp; Proc)</b>	3(1+0+2)
4	SAPH 806	Processing of cereals, pulses and oilseed crops including biodiesel <b>(HmSc, Agro &amp; Engg)</b>	3(1+0+2)
<b>V.</b>	<b>Agri-Business Management</b>		
1	SAAB 801	Project formulation, Evaluation and Monitoring <b>(Econ)</b>	3(1+2)
2	SAAB 802	Management of Agro-based industry <b>(Extn, HmSc &amp; Engg)</b>	4(1+3)
3	SAAB 803	Marketing Management (Agricultural Import-Export Policy of Govt. of India & Business Laws) <b>(Econ )</b>	3(1+2)
4	SAAB 804	Financial Management of Agri-Business <b>(Econ)</b>	4(1+3)
<b>VI</b>	<b>Commercial Agriculture</b>		
1	SACA 807	Commercial seed production <b>(Agro, PB&amp;G, &amp; Oleri)</b>	3(1+2)
2	SACA 803	Nursery management of horticultural crops <b>(Pomol, Pln crps &amp; Oleri)</b>	3(1+2)
3	SACA 804	Cultivation of commercially important medicinal & aromatic plants <b>(Pln Crops, Agro)</b>	2(1+1)
4	SACA 808	Fermentation Technology <b>(Micro, Biotech, Processing and HmSc.)</b>	3(1+2)

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\*\*\* Sessional' weightage - `Attendance 50 % , Four Class Tests /Assignments 50%

#### Distribution of credits – Semester-wise.

Year	Semester	Credits	Physical Education	Study Tour	Total
<b>I</b>	<b>I</b>	14+7 =21			21
	<b>II</b>	15+7 =22	0+1 (Noncredit)	-	22
<b>II</b>	<b>III</b>	14+10 =24	-	-	24
	<b>IV</b>	13+11=24	-		24
<b>III</b>	<b>V</b>	14+11=25	-	-	25
	<b>VI</b>	11+9=20	-	0+1 (Noncredit)	20
<b>IV</b>	<b>VI I</b>	25	-	-	25
	<b>VIII</b>	20	-	-	20
<b>Total</b>		<b>181</b>	<b>1</b>	<b>1</b>	<b>181</b>