

**SBS UNIVERSITY, BALAWALA, DEHRADUN**  
**School of Agricultural Sciences**  
**SCHEME OF COURSE**  
**B.Sc.(Hons.) Agriculture**

Type of course	Course code	Title of the Course	L-T-P /Week	No. of Credits	University Exam	Internal assessment	Total
<b>SEMESTER I</b>							
Core course 1	<b>AGRI-111</b>	Fundamentals of Agronomy and Horticulture	3-0-1	4	65	35	100
Core course 2	<b>BIOT-112</b>	Fundamentals of Plant Biotechnology and Biochemistry	2-0-1	3	65	35	100
Core course 3	<b>AGRI-112</b>	Fundamentals of Soil Science	2-0-1	3	65	35	100
Core course 4	<b>FORS-111</b>	Introduction to Forestry	2-0-0	2	50	50	100
Core course 5	<b>AECC-111</b>	Basic Communication Skills	2-0-0	2	50	50	100
Core course 6	<b>AGRI-113</b>	Agricultural Heritage	1-0-0	1	50	50	100
Core course 7	<b>AGRI-114</b>	Rural Sociology & Educational Psychology	2-0-0	2	50	50	100
<b>Total Credits</b>				<b>17</b>			
<b>LIST OF REMEDIAL COURSE / NON- GRADIAL COURSE / INTERDISCIPLINARY COURSE</b>							
Remedial Course	<b>BOTN-114</b>	Introductory Biology	1-0-1	2	65	35	100
	<b>MATH-114</b>	Elementary Mathematics	2-0-0	2	50	50	100
Non- gradial course	<b>AGRI-115</b>	Human Values & Ethics	1-0-0	1	50	50	100
Non- gradial course	<b>NCC-101</b>	NSS/NCC/Physical Education & Yoga Practices (I)	0-0-1	1	100	-	100
<b>Total Credits</b>				<b>19</b>			
<b>SEMESTER II</b>							
Core course 8	<b>AGRI-121</b>	Fundamentals of Crop Physiology	1-0-1	2	65	35	100
Core course 9	<b>AGRI-123</b>	Fundamentals of Plant Pathology	3-0-1	4	65	35	100
Core course 10	<b>AGRI-124</b>	Fundamentals of Plant Breeding	2-0-1	3	65	35	100

Core course 11	<b>AGRI-122</b>	Fundamentals of Agricultural Economics	1-0-1	2	65	35	100
Core course 12	<b>AGRI-125</b>	Fundamentals of Agricultural Extension Education	2-0-1	3	65	35	100
Core course 13	<b>ZOOL-123</b>	Fundamentals of Genetics	2-0-1	3	65	35	100
Core course 14	<b>MICR-124</b>	Fundamentals of Microbiology	1-0-1	2	65	35	100
Core course 15	<b>STAT-123</b>	Statistical Methods and Experimental Design	2-0-1	3	65	35	100
Core course 16	<b>AECC-122</b>	Communication Skills and Personality Development	1-0-1	2	65	35	100
<b>Total Credits</b>				<b>24</b>			

**LIST OF REMEDIAL COURSE / NON- GRADIAL COURSE / INTERDISCIPLINARY COURSE**

Non- gradial course	<b>NCC-102</b>	NSS/NCC/Physical Education & Yoga Practices (II)	0-0-1	1	100	-	100
<b>Total Credits</b>				<b>24</b>			

**SEMESTER III**

Core course 17	<b>AGRI-231</b>	Crop Production Technology – I ( <i>Kharif Crops</i> )	1-0-1	2	65	35	100
Core course 16	<b>AGRI-232</b>	Fundamentals of Entomology	3-0-1	4	65	35	100
Core course 17	<b>AGRI-233</b>	Agricultural Finance and Cooperation	2-0-1	3	65	35	100
Core course 18	<b>AGRI-234</b>	Agri- Informatics	1-0-1	2	65	35	100
Core course 19	<b>AGRI-235</b>	Farm Machinery and Power	1-0-1	2	65	35	100
Core course 20	<b>AGRI-236</b>	Production Technology for Vegetables and Spices	1-0-1	2	65	35	100
Core course 21	<b>FORS-233</b>	Environmental Studies and Disaster Management	2-0-1	3	65	35	100
Core course 22	<b>AGRI-237</b>	Soil and Water Conservation Engineering	1-0-1	2	65	35	100
Core course 23	<b>AGRI-238</b>	Livestock and Poultry Management	3-0-1	4	65	35	100
<b>Total Credits</b>				<b>24</b>			

**LIST OF REMEDIAL COURSE / NON- GRADIAL COURSE / INTERDISCIPLINARY COURSE**

Non- gradial course	<b>NCC-103</b>	NSS/NCC/Physical Education & Yoga Practices (III)	0-0-1	1	100		100
<b>Total Credits</b>				<b>24</b>			
<b>SEMESTER IV</b>							
Core course 24	<b>AGRI-241</b>	Crop Production Technology –II ( <i>Rabi Crops</i> )	1-0-1	2	65	35	100
Core course 25	<b>AGRI-242</b>	Production Technology for Ornamental Crops, MAP and Landscaping	1-0-1	2	65	35	100
Core course 26	<b>AGRI-243</b>	Renewable Energy and Green Technology	1-0-1	2	65	35	100
Core course 27	<b>AGRI-244</b>	Problematic Soils and their Management	2-0-0	2	50	50	100
Core course 28	<b>AGRI-245</b>	Production Technology for Fruit and Plantation Crops	1-0-1	2	65	35	100
Core course 29	<b>AGRI-246</b>	Principles of Seed Technology	2-0-1	3	65	35	100
Core course 30	<b>AGRI-247</b>	Farming System & Sustainable Agriculture	1-0-0	1	50	50	100
Core course 31	<b>AGRI-248</b>	Agricultural Marketing Trade & Prices	2-0-1	3	65	35	100
Core course 32	<b>AGRI-249</b>	Introductory Agro-meteorology & Climate Change	1-0-1	2	65	35	100
<b>Total Credits</b>				<b>19</b>			
<b>LIST OF REMEDIAL COURSE / NON- GRADIAL COURSE / INTERDISCIPLINARY COURSE</b>							
Elective course	<b>AGRI/ECT06</b>	Biopesticides & Biofertilizers	2-0-1	3	65	35	100
<b>Total Credits</b>				<b>22</b>			
<b>SEMESTER V</b>							
Core course 33	<b>AGRI-351</b>	Principles of Integrated Pest and Disease Management	2-0-1	3	65	35	100
Core course 34	<b>AGRI-352</b>	Manures, Fertilizers and Soil Fertility Management	2-0-1	3	65	35	100
Core course 35	<b>AGRI-353</b>	Pests of Crops and Stored Grain and their Management	2-0-1	3	65	35	100
Core course 36	<b>AGRI-354</b>	Diseases of Field and Horticultural Crops and their Management –I	2-0-1	3	65	35	100
Core course 37	<b>AGRI-355</b>	Crop Improvement-I ( <i>Kharif Crops</i> )	1-0-1	2	65	35	100

Core course 38	<b>AGRI-356</b>	Entrepreneurship Development and Business Communication	1-0-1	2	65	35	100
Core course 39	<b>AGRI-357</b>	Geoinformatics and Nanotechnology and Precision Farming	1-0-1	2	65	35	100
Core course 40	<b>AGRI-358</b>	Practical Crop Production – I ( <i>Kharif</i> crops)	0-0-2	2	100	-	100
Core course 41	<b>AGRI-359</b>	Intellectual Property Rights	1-0-0	1	50	50	100
<b>Total Credits</b>				<b>21</b>			

**LIST OF REMEDIAL COURSE / NON- GRADIAL COURSE / INTERDISCIPLINARY COURSE**

Elective Course	<b>AGRI/ECT03</b>	Commercial Plant Breeding	2-0-1	3	65	35	100
<b>Total Credits</b>				<b>24</b>			

**SEMESTER VI**

Core course 42	<b>AGRI-361</b>	Rainfed Agriculture & Watershed Management	1-0-1	2	65	35	100
Core course 43	<b>AGRI-362</b>	Protected Cultivation and Secondary Agriculture	1-0-1	2	65	35	100
Core course 44	<b>AGRI-363</b>	Diseases of Field and Horticultural Crops and their Management-II	2-0-1	3	65	35	100
Core course 45	<b>AGRI-364</b>	Post-harvest Management and Value Addition of Fruits and Vegetables	1-0-1	2	65	35	100
Core course 46	<b>AGRI-365</b>	Management of Beneficial Insects	1-0-1	2	65	35	100
Core course 47	<b>AGRI-366</b>	Crop Improvement-II ( <i>Rabi</i> crops)	1-0-1	2	65	35	100
Core course 48	<b>AGRI-367</b>	Practical Crop Production –II ( <i>Rabi</i> crops)	0-0-2	2	100	-	100
Core course 49	<b>AGRI-368</b>	Principles of Organic Farming	1-0-1	2	65	35	100
Core course 50	<b>AGRI-369</b>	Farm Management, Production & Resource Economics	1-0-1	2	65	35	100
Core course 51	<b>BIOC-361</b>	Principles of Food Science and Nutrition	2-0-0	2	50	50	100
<b>Total Credits</b>				<b>21</b>			

**LIST OF REMEDIAL COURSE / NON- GRADIAL COURSE / INTERDISCIPLINARY COURSE**

Elective course	<b>AGRI/ECT02</b>	Agrochemicals	2-0-1	3	65	35	100
<b>Total Credits</b>				<b>24</b>			
<b>Semester VII</b>							
Core course 52	<b>AGRI- 471</b>	Rural Agricultural Work Experience and Agro-industrial Attachment (RAWA & AIA)	0-0-20	<b>20</b>	100	-	100
<b>Total credits</b>				<b>20</b>			
<b>Semester VIII</b>							
Core course 53		Experiential Learning Programme (ELP)	0-0-20	<b>20</b>	100	-	100
	MICR/ELP/481	Production Technology for Bioagents and Biofertilizer	0+0+10	-	-	-	-
	AGRI/ELP/482	Seed Production and Technology	0+0+10	-	-	-	-
	AGRI/ELP/483	Mushroom Cultivation Technology	0+0+10	-	-	-	-
	AGRI/ELP/484	Soil, Plant, Water and Seed Testing	0+0+10	-	-	-	-
	AGRI/ELP/485	Commercial Beekeeping	0+0+10	-	-	-	-
	AGRI/ELP/486	Poultry Production Technology	0+0+10	-	-	-	-
	AGRI/ELP/487	Commercial Horticulture	0+0+10	-	-	-	-
	AGRI/ELP/488	Floriculture and Landscaping	0+0+10	-	-	-	-
	AGRI/ELP/489	Food Processing	0+0+10	-	-	-	-
	AGRI/ELP/490	Agriculture Waste Management	0+0+10	-	-	-	-
	AGRI/ELP/491	Organic Production Technology	0+0+10	-	-	-	-
	AGRI/ELP/492	Commercial Sericulture	0+0+10	-	-	-	-
	AGRI/ELP/493	Financial Management of Agribusiness	0+0+10	-	-	-	-
	AGRI/ELP/494	Agricultural Project formulation, Evaluation and Monitoring	0+0+10	-	-	-	-
	BIOT/ELP/495	Commercial Plant Tissue culture	0+0+10	-	-	-	-
<b>Total credits</b>				<b>20</b>			

\*A student has to register 20 credits opting for two modules from the package of ELP modules in the VIII semester.