



**BRAINWARE UNIVERSITY**  
**SCHOOL OF BIOTECHNOLOGY, BIOSCIENCES & AGRISCIENCES**  
**DEPARTMENT OF AGRICULTURE**  
**Bachelor of Science (Honours) in Agriculture**  
**(2021-22)**

**SEMESTER – I**

Course Code	Course Name	Course Type	L - P	Credits	Total Marks
CC-BAG101	Fundamentals of Agronomy-I	Core Courses	2-0	2(2+0)	100
CC-BAG102	Rural Sociology & Educational Psychology	Core Courses	2-0	2(2+0)	100
CC-BAG171	Fundamentals of Soil Science-I	Core Courses	1-2	2(1+1)	100
CC-BAG172	Fundamentals of Plant Biochemistry and Biotechnology	Core Courses	2-2	3(2+1)	100
CC-BAG173	Introduction to Forestry	Core Courses	1-2	2(1+1)	100
CC-BAG174	Fundamentals of Horticulture	Core Courses	1-2	2(1+1)	100
RC-BAG101	Agricultural Heritage	Remedial Course	1-0	1(1+0)	100
RC-BAG102A/RC-BAG172B	Elementary Mathematics/ Introductory Biology	Remedial Course	2-0/ 1-2	2(2+0)/ 2(1+1)	100
NG-BAG101	Human Values & Ethics	Non Gradiual Course	1-0	1(1+0)	100
NG-BAG181	NSS/Physical Education & Yoga Practices	Non Gradiual Course	0-4	2(0+2)	100
AE-BAG171	Comprehension and Communication Skill in English	Ability Enhancement Course	1-2	2(1+1)	100
<b>TOTAL CREDITS &amp; MARKS – SEM I</b>			<b>14-14/ 13-16</b>	<b>21 (14+7 / 13+8)</b>	<b>1100</b>

**Total Hours – 28/29**



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**SEMESTER – II**

Course Code	Course Name	Course Type	L-P	Credits	Total Marks
CC-BAG201	Fundamentals of Plant Pathology-I	Core Courses	2-0	2(2+0)	100
CC-BAG202	Fundamentals of Entomology-I	Core Courses	2-0	2(2+0)	100
CC-BAG203	Fundamentals of Agricultural Economics	Core Courses	2-0	2(2+0)	100
CC-BAG204	Communication Skills and Personality Development	Core Courses	2-0	2(2+0)	100
CC-BAG271	Fundamentals of Genetics	Core Courses	2-2	3(2+1)	100
CC-BAG272	Agricultural Microbiology	Core Courses	1-2	2(1+1)	100
CC-BAG273	Soil and Water Conservation Engineering	Core Courses	1-2	2(1+1)	100
CC-BAG274	Fundamentals of Crop Physiology	Core Courses	1-2	2(1+1)	100
CC-BAG275	Fundamentals of Agricultural Extension Education	Core Courses	2-2	3(2+1)	100
CC-BAG276	Fundamentals of Agronomy-II	Core Courses	1-2	2(1+1)	100
CC-BAG277	Fundamentals of Soil Science-II	Core Courses	1-2	2(1+1)	100
<b>TOTAL CREDITS &amp; MARKS – SEM II</b>			<b>17-14</b>	<b>24 (17+7)</b>	<b>1100</b>

**Total Hours – 31**



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**Semester III**

<b>Course Code</b>	<b>Course Name</b>	<b>Course Type</b>	<b>L - P</b>	<b>Credits</b>	<b>Total Marks</b>
CC-BAG301	Livestock and Poultry Management-I	Core Courses	2 - 0	2 (2+0)	100
CC-BAG371	Crop Production Technology – I (Kharif Crops)	Core Courses	1 - 3	2 (1+1)	100
CC-BAG372	Fundamentals of PlantBreeding	Core Courses	2 - 2	3 (2+1)	100
CC-BAG373	Agricultural Finance and Cooperation	Core Courses	2 - 2	3 (2+1)	100
CC-BAG374	Agri- Informatics	Core Courses	1 - 2	2 (1+1)	100
CC-BAG375	Farm Machinery and Power	Core Courses	1 - 2	2 (1+1)	100
CC-BAG376	Production Technology forVegetables and Spices	Core Courses	1 - 3	2 (1+1)	100
CC-BAG377	Environmental Studies andDisaster Management	Core Courses	2 - 2	3 (2+1)	100
CC-BAG378	Statistical Methods	Core Courses	1 - 2	2 (1+1)	100
CC-BAG379	Fundamentals of PlantPathology-II	Core Courses	1 - 2	2 (1+1)	100
CC-BAG3710	Fundamentals ofEntomology-II	Core Courses	1 - 2	2 (1+1)	100
<b>Total Credits and Marks</b>			<b>15-22</b>	<b>25 (15+10)</b>	<b>1100</b>

**Total Hours - 37**



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**Semester - IV**

Course Code	Course Name	Course Type	L - P	Credits	Total Marks
CC-BAG401	Problematic Soils and their Management	Core Courses	2 - 0	2 (2+0)	100
CC-BAG402	Farming System & Sustainable Agriculture	Core Courses	1 - 0	1 (1+0)	100
CC-BAG471	Crop Production Technology –II (Rabi Crops)	Core Courses	1 - 3	2 (1+1)	100
CC-BAG472	Production Technology for Ornamental Crops, MAP and Landscaping	Core Courses	1 - 3	2 (1+1)	100
CC-BAG473	Renewable Energy and Green Technology	Core Courses	1 - 2	2 (1+1)	100
CC-BAG474	Production Technology for Fruit and Plantation Crops	Core Courses	1 - 3	2 (1+1)	100
CC-BAG475	Principles of Seed Technology	Core Courses	1 - 4	3 (1+2)	100
CC-BAG476	Agricultural Marketing Trade & Prices	Core Courses	2 - 2	3 (2+1)	100
CC-BAG477	Introductory Agro-meteorology & Climate Change	Core Courses	1 - 2	2 (1+1)	100
CC-BAG478	Livestock and Poultry Management-II	Core Courses	1 - 2	2 (1+1)	100
Elective Courses (Any one of the 4 courses)					
EC-BAG471-A	Agri-business Management	Elective Courses	2 - 2	3 (2+1)	100
EC-BAG471-B	Agro Chemicals	Elective Courses	2 - 2	3 (2+1)	100
EC-BAG471-C	Commercial Plant Breeding	Elective Courses	1 - 4	3 (1+2)	100
EC-BAG471-D	Landscaping	Elective Courses	2 - 2	3 (2+1)	100
<b>Total Credits and Marks</b>			<b>14-23/13-25</b>	<b>24 (14+10 /13+11)</b>	<b>1100</b>

**Total Hours – 37/38**



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**Semester V**

Course Code	Course Name	Course Type	L - P	Credits	Total Marks
CC-BAG501	Intellectual Property Rights	Core Courses	1-0	1(1+0)	100
CC-BAG571	Principles of Integrated Pest and Disease Management	Core Courses	2-2	3(2+1)	100
CC-BAG572	Manures, Fertilizers and Soil Fertility Management	Core Courses	2-2	3(2+1)	100
CC-BAG573	Pests of Crops and Stored Grain and their Management	Core Courses	2-2	3(2+1)	100
CC-BAG574	Diseases of Field and Horticultural Crops and their Management -I	Core Courses	2-2	3(2+1)	100
CC-BAG575	Crop Improvement-I (Kharif Crops)	Core Courses	1-2	2(1+1)	100
CC-BAG576	Entrepreneurship Development and Business Communication	Core Courses	1-2	2(1+1)	100
CC-BAG577	Geoinformatics and Nano-technology and Precision Farming	Core Courses	1-2	2(1+1)	100
CC-BAG591	Practical Crop Production – I (Kharif crops)	Core Courses	0-6	2(0+2)	100
Elective Courses (Any one of the 4 courses)					
EC-BAG571A	Weed Management	Elective Course	2 - 2	3(2+1)	100
EC-BAG571B	Biopesticides & Biofertilizers	Elective Course	2 - 2	3(2+1)	100
EC-BAG571C	Protected Cultivation	Elective Course	2 - 2	3(2+1)	100
EC-BAG571D	Micro propagation Technologies	Elective Course	1 - 4	3(1+2)	100
<b>TOTAL CREDITS &amp; MARKS</b>			<b>14-22/ 13-24</b>	<b>21(12+9)+3</b>	<b>1000</b>

**Total Hours – 36/37**



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**Semester VI**

Course Code	Course Name	Course Type	L - P	Credits	Total Marks
CC-BAG601	Principles of Food Science and Nutrition	Core Courses	2-0	2(2+0)	100
CC-BAG671	Rainfed Agriculture & Watershed Management	Core Courses	1-3	2(1+1)	100
CC-BAG672	Protected Cultivation and Secondary Agriculture	Core Courses	1-2	2(1+1)	100
CC-BAG673	Diseases of Field and Horticultural Crops and their Management-II	Core Courses	2-2	3(2+1)	100
CC-BAG674	Post-harvest Management and Value Addition of Fruits and Vegetables	Core Courses	1-2	2(1+1)	100
CC-BAG675	Management of Beneficial Insects	Core Courses	1-2	2(1+1)	100
CC-BAG676	Crop Improvement-II (Rabi crops)	Core Courses	1-2	2(1+1)	100
CC-BAG677	Principles of Organic Farming	Core Courses	1-3	2(1+1)	100
CC-BAG678	Farm Management, Production and Resource Economics	Core Courses	1-2	2(1+1)	100
CC-BAG691	Practical Crop Production –II (Rabi crops)	Core Courses	0-6	2(0+2)	100
Elective Courses (Any one of the 4 courses)					
EC-BAG671A	Hi-tech. Horticulture	Elective Course	2 - 2	3(2+1)	100
EC-BAG671B	System Simulation and Agro-advisory	Elective Course	2 - 2	3(2+1)	100
EC-BAG671C	Food Safety and Standards	Elective Course	2 - 2	3(2+1)	100
EC-BAG671D	Agricultural Journalism	Elective Course	2 - 2	3(2+1)	100
<b>TOTAL CREDITS &amp; MARKS</b>			<b>13-26</b>	<b>21(11+10) +3</b>	<b>1100</b>

**Total Hours – 39**



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**Semester VII**

<b>Course Code</b>	<b>Course Name</b>	<b>Course Type</b>	<b>Number of Weeks</b>	<b>Credits</b>	<b>Total Marks</b>
RE-BAG781	Rural Agricultural Work Experience (RAWE)	[Village Attachment/Crop Production/Protection]	9	9	100
RE-BAG782	Unit Attachment & Plant Clinic Attachment/ Agri Finance (RAWE)	[Plant Clinic, On campus training & Agri-Finance]	7	7	100
RE-BAG783	Agro-industrial Attachment (AIA)	[Agro-industrial Attachment & Project Report]	4	4	100
<b>Total Credits and Marks</b>			<b>20</b>	<b>20</b>	<b>300</b>



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**Semester VIII**

Course Code	Course Name	Course Type	L - P	Credits	Total Marks
EL-BAG891A-H	MODULE I	Experiential Learning Programme [EL Modules]	0-20	10	100
	MODULE II	Experiential Learning Programme [EL Modules]	0-20	10	100
<b>Total Credits and Marks</b>			<b>0-40</b>	<b>20</b>	<b>200</b>

**Total Hours – 40**

Course Code	Course Name (Choose any 2)	Course Type	L - P	Credits	Total Marks
EL-BAG891A	Mushroom Cultivation Technology	Experiential Learning Programme	0-20	10 (0+10)	100
EL-BAG891B	Poultry Production Technology	Experiential Learning Programme	0-20	10 (0+10)	100
EL-BAG891C	Agriculture Waste Management	Experiential Learning Programme	0-20	10 (0+10)	100
EL-BAG891D	Plant Tissue Culture	Experiential Learning Programme	0-20	10 (0+10)	100
EL-BAG891E	Soil, water and fertilizer quality testing	Experiential Learning Programme	0-20	10 (0+10)	100
EL-BAG891F	Seed Production and Technology	Experiential Learning Programme	0-20	10 (0+10)	100
EL-BAG891G	Production Technology Bio-agents and Bio-fertilizer	Experiential Learning Programme	0-20	10 (0+10)	100
EL-BAG891H	Floriculture and Landscaping	Experiential Learning Programme	0-20	10 (0+10)	100
<b>Total Credits and Marks</b>			<b>0-40</b>	<b>20</b>	<b>200</b>

**Total Credit -182**

**Total Marks – 7000**