



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

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 Gracial Course | 1-0 | 1(1+0) | 100 |
| NG-BAG181 | NSS/Physical Education & Yoga Practices | Non Gracial Course | 0-4 | 2(0+2) | 100 |
| AE-BAG171 | Comprehension and Communication Skill in English | Ability Enhancement Course | 1-2 | 2(1+1) | 100 |
| TOTAL CREDITS & MARKS – SEM I | | | 14-14/ 13-16 | 21 (14+7 / 13+8) | 1100 |

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 |
| TOTAL CREDITS & MARKS – SEM II | | | 17-14 | 24 (17+7) | 1100 |

Total Hours – 31



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Semester III

| Course Code | Course Name | Course Type | L - P | Credits | Total Marks |
|--------------------------------|--|--------------------|--------------|-------------------|--------------------|
| 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 |
| Total Credits and Marks | | | 15-22 | 25 (15+10) | 1100 |

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 |
| Total Credits and Marks | | | 14-23/13-25 | 24 (14+10 /13+11) | 1100 |

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 |
| TOTAL CREDITS & MARKS | | | 14-22/ 13-24 | 21(12+9)+3 | 1000 |

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 |
| TOTAL CREDITS & MARKS | | | 13-26 | 21(11+10) +3 | 1100 |

Total Hours – 39



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Semester VII

| Course Code | Course Name | Course Type | (L-P) | Credits | Total Marks |
|--------------------------------|--|---------------------------------------|--------------|----------------|--------------------|
| CC-BAG781 | Rural Agricultural Work Experience (RAWE) and Agro-industrial Attachment (AIA) | Field Practical and Hands on Training | 0-0 | 20 | 100 |
| Total Credits and Marks | | | 0-0 | 20 | 100 |



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Semester VIII

Modules for Skill Development and Entrepreneurship: A student has to register 20 credits opting for 2-modules of (0+10) credits each (total 20 credits) from the package of modules below.

| Course Code | Course Name | Course Type | L - P | Credits | Total Marks |
|--------------------------------|---|--|-------------|-----------|-------------|
| EL-BAG891A | Mushroom Cultivation Technology | Experiential Learning Programme/ Hands on Training | 0-20 | 10 (0+10) | 100 |
| EL-BAG891B | Poultry Production Technology | Experiential Learning Programme/ Hands on Training | 0-20 | 10 (0+10) | 100 |
| EL-BAG891C | Agriculture Waste Management | Experiential Learning Programme/ Hands on Training | 0-20 | 10 0+10) | 100 |
| EL-BAG891D | Seed Production and Technology | Experiential Learning Programme/ Hands on Training | 0-20 | 10 (0+10) | 100 |
| EL-BAG891E | Production Technology for Bioagents and Biofertilizer | Experiential Learning Programme/ Hands on Training | 0-20 | 10 (0+10) | 100 |
| EL-BAG891F | Floriculture and Landscaping | Experiential Learning Programme/ Hands on Training | 0-20 | 10 (0+10) | 100 |
| EL-BAG891G | Soil, Plant, Water and Seed Testing | Experiential Learning Programme/ Hands on Training | 0-20 | 10 (0+10) | 100 |
| EL-BAG891H | Commercial Beekeeping | Experiential Learning Programme/ Hands on Training | 0-20 | 10 (0+10) | 100 |
| EL-BAG891I | Commercial Horticulture | Experiential Learning Programme/ Hands on Training | 0-20 | 10 (0+10) | 100 |
| EL-BAG891J | Food Processing | Experiential Learning Programme/ Hands on Training | 0-20 | 10 (0+10) | 100 |
| EL-BAG891K | Organic Production Technology | Experiential Learning Programme/ Hands on Training | 0-20 | 10 (0+10) | 100 |
| EL-BAG891L | Commercial Sericulture | Experiential Learning Programme/ Hands on Training | 0-20 | 10 (0+10) | 100 |
| Total Credits and Marks | | | 0-40 | 20 | 200 |

Total Hours – 40

Total Credit - 182

Total Marks – 7000