



**BRAINWARE UNIVERSITY**  
**SCHOOL OF AGRICULTURE**  
**DEPARTMENT OF AGRICULTURE**  
**BACHELOR OF SCIENCE (HONOURS) IN AGRICULTURE – 2025**

**SEMESTER – I**

Sl. No.	Course Code	Course Name	Course Type	L	T	P	Evaluation Scheme		Total	Credits
							CIA	TEE		
1	BAG00001*	Deeksharambh (Induction cum Foundation course)	Non Gradiual Course	-	-	-	0	0	0	0
2	SEC19001	Horticulture nursery management	Skill Enhancement Course	0	-	4	50	50	100	2(0+2)
3	SEC19002	Biofertilizer and biopesticide production	Skill Enhancement Course	0	-	4	50	50	100	2(0+2)
4	AEC17001	Communication Skills	Ability Enhancement Course	1	-	2	40	60	100	2(1+1)
5	MDC17001	Farming-based livelihood systems	Multi-Disciplinary Course	2	-	2	40	60	100	3(2+1)
6	BAG10101	Rural Sociology and Educational Psychology	Core Course	2	-	0	50	50	100	2(2+0)
7	BAG17102	Fundamentals of Agronomy	Core Course	2	-	2	40	60	100	3(2+1)
8	BAG17103	Fundamentals of Soil Science	Core Course	2	-	2	40	60	100	3(2+1)
9	BAG17104	Fundamentals of Horticulture	Core Course	2	-	2	40	60	100	3(2+1)
10	AEC18002	National Service Scheme (NSS-I)	Ability Enhancement Course	-	-	-	-	-	100	1
11	BAG00002*	Introductory mathematics (need based)	Non Gradiual Course	1	-	0	50	50	100	1(1+0)
	<b>TOTAL</b>			<b>11</b>	<b>-</b>	<b>18</b>	<b>400</b>	<b>500</b>	<b>900</b>	<b>21</b>

**\*The Non-Gradiual Courses shall be of satisfactory nature and will not be included in the final marks calculation for the semester.**



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**SEMESTER – II**

Sl. No.	Course Code	Course Name	Course Type	L	T	P	Evaluation Scheme		Total	Credits
							CIA	TEE		
1	SEC29003	Post harvest processing technology	Skill Enhancement Course	0	-	4	50	50	100	2(0+2)
2	SEC29004	Plantation crops production and management	Skill Enhancement Course	0	-	4	50	50	100	2(0+2)
3	AEC27003	Personality Development	Ability Enhancement Course	1	-	2	40	60	100	2(1+1)
4	VAC27001	Environmental Studies and Disaster Management	Value Added Course	2	-	2	40	60	100	3(2+1)
5	BAG27105	Soil Fertility Management	Core Course	2	-	2	40	60	100	3(2+1)
6	BAG27106	Fundamentals of Entomology	Core Course	2	-	2	40	60	100	3(2+1)
7	BAG27107	Livestock and Poultry Management	Core Course	1	-	2	40	60	100	2(1+1)
8	BAG27108	Fundamentals of Plant Pathology	Core Course	2	-	2	40	60	100	3(2+1)
9	AEC28004	NSS-II	Ability Enhancement Course	-	-	-	-	-	100	1
<b>TOTAL</b>				<b>10</b>	<b>-</b>	<b>20</b>	<b>340</b>	<b>460</b>	<b>900</b>	<b>21</b>



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**SEMESTER – III**

Sl. No.	Course Code	Course Name	Course Type	L	T	P	Evaluation Scheme		Total	Credits
							CIA	TEE		
1	SEC39005	Mushroom Production Technology	Skill Enhancement Course	0	-	4	50	50	100	2(0+2)
2	MDC37002	Entrepreneurship Development and Business Communication	Multi Disciplinary Course	2	-	2	40	60	100	3(2+1)
3	AEC39005	Physical Education, First Aid, Yoga Practices and Meditation	Ability Enhancement Course	0	-	4	50	50	100	2(0+2)
4	BAG37109	Principles of Genetics	Core Course	2	-	2	40	60	100	3(2+1)
5	BAG37110	Crop Production Technology-I (Kharif crops)	Core Course	1	-	4	40	60	100	3(1+2)
6	BAG37111	Production Technology of Fruit and Plantation Crops	Core Course	1	-	2	40	60	100	2(1+1)
7	BAG37112	Fundamentals of Extension Education	Core Course	1	-	2	40	60	100	2(1+1)
8	BAG37113	Fundamentals of Nematology	Core Course	1	-	2	40	60	100	2(1+1)
9	BAG37114	Principles and Practices of Natural Farming	Core Course	1	-	2	40	60	100	2(1+1)
<b>TOTAL</b>				<b>9</b>	<b>-</b>	<b>24</b>	<b>380</b>	<b>520</b>	<b>900</b>	<b>21</b>



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**SEMESTER – IV**

Sl. No.	Course Code	Course Name	Course Type	L	T	P	Evaluation Scheme		Total	Credits
							CIA	TEE		
1	SEC49006	Seed Production Technology	Skill Enhancement course	0	-	4	50	50	100	2(0+2)
2	VAC47002	Agricultural Informatics and Artificial Intelligence	Value Added Course	2	-	2	40	60	100	3(2+1)
3	BAG47115	Production Technology of Vegetables and Spices	Core Course	1	-	2	40	60	100	2(1+1)
4	BAG40116	Principles of Agricultural Economics and Farm Management	Core Course	2	-	0	50	50	100	2(2+0)
5	BAG47117	Crop Production Technology-II (Rabi Crops)	Core Course	1	-	4	40	60	100	3(1+2)
6	BAG47118	Farm Machinery and Power	Core Course	1	-	2	40	60	100	2(1+1)
7	BAG47119	Water Management	Core Course	1	-	2	40	60	100	2(1+1)
8	BAG47120	Problematic Soils and their management	Core Course	1	-	2	40	60	100	2(1+1)
9	BAG47121	Basics of Plant Breeding	Core Course	2	-	2	40	60	100	3(2+1)
<b>TOTAL</b>				<b>11</b>	<b>-</b>	<b>20</b>	<b>380</b>	<b>520</b>	<b>900</b>	<b>21</b>



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**SEMESTER – V**

Sl. No.	Course Code	Course Name	Course Type	L	T	P	Evaluation Scheme		Total	Credits
							CIA	TEE		
1	MDC57003	Agricultural Marketing and Trade	Multi Disciplinary Course	2	-	2	40	60	100	3(2+1)
2	BAG57122	Introduction to Agro-meteorology	Core Course	1	-	2	40	60	100	2(1+1)
3	BAG57123	Fundamentals of Crop Physiology	Core Course	2	-	2	40	60	100	3(2+1)
4	BAG57124	Pest management in Crops and Stored Grains	Core Course	2	-	2	40	60	100	3(2+1)
5	BAG57125	Diseases of Field & Horticultural Crops & their Management	Core Course	2	-	2	40	60	100	3(2+1)
6	BAG57126	Crop Improvement (kharif crops) - I	Core Course	1	-	2	40	60	100	2(1+1)
7	BAG57127	Weed Management	Core Course	1	-	2	40	60	100	2(1+1)
8	BAG57128	Ornamental Crops, MAPs and Landscaping	Core Course	1	-	2	40	60	100	2(1+1)
9	BAG57129	Introductory Agro forestry	Core Course	1	-	2	40	60	100	2(1+1)
10	BAG00003*	Educational Tour	Non Gradial Course	-	-	-	100*	-	100*	2*
<b>TOTAL</b>				<b>13</b>		<b>18</b>	<b>360+100*</b>	<b>540</b>	<b>900+100*</b>	<b>22+2*</b>

\*The Non-Gradial Courses shall be of satisfactory nature and will not be included in the final marks calculation for the semester.



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**SEMESTER – VI**

Sl. No.	Course Code	Course Name	Course Type	L	T	P	Evaluation Scheme		Total	Credits
							CIA	TEE		
1	BAG67130	Fundamentals of Agri Biotechnology	Core Course	2	-	2	40	60	100	3(2+1)
2	BAG67131	Basic and Applied Agril Statistics	Core Course	2	-	2	40	60	100	3(2+1)
3	BAG67132	Crop Improvement (Rabi crops) - II	Core Course	1	-	2	40	60	100	2(1+1)
4	BAG67133	Renewable energy in Agriculture and Allied Sector	Core Course	1	-	2	40	60	100	2(1+1)
5	BAG67134	Dryland agriculture/ Rainfed agriculture and watershed management	Core Course	1	-	2	40	60	100	2(1+1)
6	BAG67135	Agricultural Microbiology and Phyto -remediation	Core Course	1	-	2	40	60	100	2(1+1)
7	BAG67136	Agricultural Finance & Cooperation	Core Course	1	-	2	40	60	100	2(1+1)
8	BAG67137	Essentials of Plant Biochemistry	Core Course	2	-	2	40	60	100	3(2+1)
9	BAG67138	Fundamentals of Seed Science & Technology	Core Course	1	-	2	40	60	100	2(1+1)
<b>TOTAL</b>				<b>12</b>	<b>-</b>	<b>18</b>	<b>360</b>	<b>540</b>	<b>900</b>	<b>21</b>



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**SEMESTER – VII**

**\*5 Elective Courses each of 4 (3+1) credits/ Research Project with related courses.**

Sl. No.	Course Code	Course Name	Course Type	L	T	P	Evaluation Scheme		Total	Credits
							CIA	TEE		
1	BAG77201A	Agri-Business Management	Elective Course	3	-	2	40	60	100	4(3+1)
2	BAG77201B	Management of natural resources	Elective Course	3	-	2	40	60	100	4(3+1)
3	BAG77201C	Agrochemicals	Elective Course	3	-	2	40	60	100	4(3+1)
4	BAG77201D	Agricultural Journalism	Elective Course	3	-	2	40	60	100	4(3+1)
5	BAG77201E	Landscaping	Elective Course	3	-	2	40	60	100	4(3+1)
6	BAG77201F	Commercial Plant breeding	Elective Course	3	-	2	40	60	100	4(3+1)
7	BAG77201G	Food safety and standards	Elective Course	3	-	2	40	60	100	4(3+1)
8	BAG77201H	Bioformulation and Nano formulation	Elective Course	3	-	2	40	60	100	4(3+1)
9	BAG77201I	Biopesticides and Biofertilizers	Elective Course	3	-	2	40	60	100	4(3+1)
10	BAG77201J	System Simulation and Agro advisory	Elective Course	3	-	2	40	60	100	4(3+1)
11	BAG77201K	Hi-tech Horticulture	Elective Course	3	-	2	40	60	100	4(3+1)
12	BAG77201L	Protected cultivation	Elective Course	3	-	2	40	60	100	4(3+1)
13	BAG77201M	Climate Resilient Agriculture	Elective Course	3	-	2	40	60	100	4(3+1)
14	BAG77201N	Biotechnology of Crop Improvement	Elective Course	3	-	2	40	60	100	4(3+1)
15	BAG77201O	Geoinformatics and Remote Sensing, precision farming	Elective Course	3	-	2	40	60	100	4(3+1)
16	BAG77201P	Micro-propagation Technologies	Elective Course	3	-	2	40	60	100	4(3+1)
17	BAG77201Q	Commercial Seed Production	Elective Course	3	-	2	40	60	100	4(3+1)
18	BAG77201R	Principles and Practices of Organic Farming/ Conservation Agriculture	Elective Course	3	-	2	40	60	100	4(3+1)



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19	BAG77201S	Food Science and Nutrition	Elective Course	3	-	2	40	60	100	4(3+1)
20	BAG77201T	Post-Harvest Technology and Value Addition	Elective Course	3	-	2	40	60	100	4(3+1)
<b>TOTAL</b>				<b>15</b>	<b>-</b>	<b>10</b>	<b>200</b>	<b>300</b>	<b>500</b>	<b>20</b>





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**SEMESTER – VIII**

Sl. No.	Course Code	Course Name	Course Type	L	T	P	Evaluation Scheme		Total	Credits
							CIA	TEE		
1	BAG88101	RAWE/ Industrial Attachment /Experiential Learning / Hands-on Training/ Project Work / Internship	Field Practical and Hands on Training	0	-	0	0	0	100	20
2	BAG00004*	Online Courses/ MOOCs (Non Gradiual)	Non Gradiual Course	0	-	0	0	0	100	10
<b>TOTAL</b>				<b>0</b>	<b>-</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100</b>	<b>20</b>

\*The students will have to take a minimum of 10 credits of online courses, comprising one or more courses, as a partial requirement for the UG programme. The online courses can be from any field such as Basic Sciences, Humanities, Psychology, Anthropology, Economics, Engineering, Business Management, Languages including foreign language, Communication skills/ Music, etc. and can be taken from and can be taken from NPTEL, mookIT, edX, Coursera, SWAYAM or any other portal. The objective is to allow the students to groom their passion or strengthen their knowledge and competency in any field beyond prescribed courses. The courses will be non-gradual as separate certificates would be issued by institutes offering the courses. These can be taken any time during the duration of UG programme, but preferably during the 3rd and 4th years. The University will keep a record of such courses registered and completed by each student and will indicate the title of the (successfully completed) courses in final transcript issued to the student.