BRAINWARE UNIVERSITY
SCHOOL OF AGRICULTURE
DEPARTMENT OF AGRICULTURE
Master of Science in Agriculture – Horticulture -2026

Framework of the Courses

The credit requirements for the Master's Programme are outlined as follows. These ensure a balanced academic structure to support specialized learning and research.

Credit Requirements for Master's Programme

Course Category	**Credits**
Major Courses	20
Minor Courses	08
Supporting Courses	06
Common Courses	05
Seminar	01
Thesis Research	30
Total	**70**

Course Categories

1. Major Courses: Courses from the primary discipline in which the student is enrolled. Core courses that are mandatory will be marked with an asterisk (*).
2. Minor Courses: Courses from disciplines closely related to the student's major subject area.
3. Supporting Courses: Subjects outside the major discipline that are relevant to the student's research or overall competence. These may include areas like *Statistical Methods* or *Design of Experiments.*
4. **Common Courses:** Five one-credit courses offered across all Master's disciplines to build general competence:
    - Library and Information Services
    - Technical Writing and Communication Skills
    - Intellectual Property and Its Management in Agriculture
    - Basic Concepts in Laboratory Techniques
    - Agricultural Research, Research Ethics, and Rural Development Programmes
    - Students may opt for equivalent online courses (e.g., SWAYAM or similar platforms) with prior approval. If a course has already been completed during undergraduate studies, alternative related courses may be chosen.
5. **Seminar:**

A 1-credit seminar focusing on developing skills in presentation and discussion.

6. **Thesis Research:** Independent research culminating in a thesis, which constitutes a significant component of the credit requirement (30 credits).
7. **A student can obtain up to 16 credits per semester excluding master's research.**
8. **A student can only take minor courses that are offered by other disciplines during a given semester.**
9. **A student can select supporting courses of their choice from the list of supporting courses provided herewith**

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SEMESTER-I

Sl. No.	Course Code	Course Name	Course Type	L	T	P	Evaluation Scheme		Total	Credits
							CIA	TEE		
1	HORT501	Propagation and Nursery Management of Fruit Crops	Major Course	1	_	2	40	60	100	2(1+1)
2	HORT502	Production of Cool Season Vegetable Crops	Major Course	2	_	2	40	60	100	3(2+1)
3	HORT503E/ HORT504E	Tropical and Minor Fruit Production/ Biodiversity and Conservation of Fruit Crops	Major Course	2/2	_	2/2	40	60	100	3(2+1)/ 3(2+1)
4	HORT505	Ornamental Gardening and Landscaping	Minor Course	2	_	2	40	60	100	3(2+1)
5	PGS502	Technical Writing and Communication Skills	Common Course	0	_	2	40	60	100	1(0+1)
6	MCA512	Information Technology in Agriculture	Supporting Course	1	_	2	40	60	100	2(1+1)
Total				8/8	_	12/12	240	360	600	`14(8+6)/ 14(8+6)

SEMESTER-II

Sl. No.	Course Code	Course Name	Course Type	L	T	P	Evaluation Scheme		Total	Credits
							CIA	TEE		
1	HORT506	Sub-Tropical and Temperate Fruit Production	Major Course	2	_	2	40	60	100	3(2+1)
2	HORT507E/ HORT508E	Production of Warm Season Vegetable Crops/ Production Technology of Under Exploited Vegetable Crops	Major Course	2/2	_	2/2	40	60	100	3(2+1)/ 3(2+1)
3	HORT509	Protected Cultivation of Horticultural Crops	Minor Course	1	_	2	40	60	100	2(1+1)
4	PGS501	Library and Information Services	Common Course	0	_	2	40	60	100	1(0+1)
5	PGS503	Intellectual Property and its Management in Agriculture	Common Course	1	_	0	40	60	100	1(1+0)
6	STAT502	Statistical Methods for Applied Science	Supporting Course	3	_	2	40	60	100	4(3+1)
Total				9/9	_	10/10	240	360	600	14(9+5)/ 14(9+5)

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SEMESTER-III

Sl. No.	Course Code	Course Name	Course Type	L	T	P	Evaluation Scheme		Total	Credits
							CIA	TEE		
1	HORT510E/ HORT511E	Commercial Production of Cut and Loose Flowers/ Breeding and Seed Production of Flower Crops and Ornamental Plants	Major Course	2/2	_	2/2	40	60	100	3(2+1)/ 3(2+1)
2	HORT512	Post Harvest Management and Preservation of Fruit and Vegetables	Major Course	2	_	2	40	60	100	3(2+1)
3	HORT513	Breeding of Horticultural Crops	Minor Course	2	_	2	40	60	100	3(2+1)
4	PGS504	Basic Concepts in Laboratory Techniques	Common Course	0	_	2	40	60	100	1(0+1)
5	PGS505	Agricultural Research, Research Ethics and Rural Development Programmes	Common Course	1	_	0	40	60	100	1(1+0)
Total				7/7	_	8/8	200	300	500	11(7+4)/ 11(7+4)

SEMESTER-IV

Sl. No.	Course Code	Course Name	Course Type	L	T	P	Evaluation Scheme		Total	Credits
							CIA	TEE		
1	HORT550	Master's Seminar	Compulsory Course	0	_	2	40	60	100	1(0+1)
2	HORT560	Master's Research	Compulsory Course	0	_	30	40	60	100	30(0+30)
Total				0		32	80	120	200	31(0+31)

Supporting Courses		
Course Code	**Course Title**	**Credit**
STAT501	Mathematics for Applied Sciences	2(2+0)
STAT502	Statistical Methods for Applied Science	4(3+1)
STAT511	Experimental Designs	3 (2+1)
STAT512	Basic Sampling Techniques	3 (2+1)
STAT521	Applied Regression Analysis	3 (2+1)
STAT522	Data Analysis Using Statistical Packages	3 (2+1)
MCA501	Computers Fundamentals and Programming	3 (2+1)
MCA502	Computer Organization and Architecture	2 (2+0)
MCA511	Introduction to Communication Technologies, Computer Networking and Internet	2 (1+1)
MCA512	Information Technology in Agriculture	2 (1+1)
BIOCHEM501	Basic Biochemistry	4 (3+1)
BIOCHEM505	Techniques in Biochemistry	4 (2+2)

Common Courses		
Course Code	**Course Title**	**Credit**
PGS501	Library and Information Services	1 (0+1)
PGS502	Technical Writing and Communications Skills	1 (0+1)
PGS503	Intellectual Property and its Management in Agriculture	1 (1+0)
PGS504	Basic Concepts in Laboratory Techniques	1 (0+1)
PGS505	Agricultural Research, Research Ethics and Rural Development Programmes	1 (1+0)