BRAINWARE UNIVERSITY
SCHOOL OF AGRICULTURE
DEPARTMENT OF AGRICULTURE
Master of Science in Agriculture – Agronomy -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	AGRON501	Modern Concepts in Crop Production	Major Course	3	-	0	40	60	100	3(3+0)
2	AGRON503	Principles and Practices of Weed Management	Major Course	2	-	2	40	60	100	3(2+1)
3	AGRON505E/ AGRON506E/ AGRON508E	Conservation Agriculture/ Agronomy of major Cereals and Pulses/ Agronomy of medicinal, aromatic and underutilized crops	Major Course	1/ 2/ 2	-	2/ 0/ 2	40	60	100	2(1+1)/ 2(2+0)/ 3(2+1)
4	PGS502	Technical Writing and Communications Skills	Common Course	0	-	2	40	60	100	1(0+1)
5	SOIL502	Soil Fertility and Fertilizer Use	Minor Course	2	-	2	40	60	100	3(2+1)
6	BIOCHEM501	Basic Biochemistry	Supporting Course	3	-	2	40	60	100	4(3+1)
TOTAL				**11/ 12/ 12**	**-**	**10/ 8/ 10**	**240**	**360**	**600**	**16 (11+5)/ 16 (12+4)/ 17 (12+5)**

SEMESTER-II

Sl No	Course Code	Course Name	Course Type	L	T	P	Evaluation Scheme		Total	Credits
							CIA	TEE		
1	AGRON502	Principles and practices of soil fertility and nutrient management	Major Course	2	-	2	40	60	100	3(2+1)
2	AGRON504	Principles and Practices of Water Management	Major Course	2	-	2	40	60	100	3(2+1)
3	AGRON511E/ AGRON510E/ AGRON507E	Cropping System and Sustainable Agriculture/ Agrostology and Agro-Forestry/ Agronomy of oilseed, fibre and sugar crops	Major Course	2/ 2/ 2	-	0/ 2/ 2	40	60	100	2(2+0)/ 3(2+1)/ 3(2+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	SOIL511	Management of Problematic Soils and Water	Minor Course	1	-	2	40	60	100	2(1+1)
7	STAT502	Statistical Methods for Applied Sciences	Supporting Course	3	-	2	40	60	100	4(3+1)
TOTAL				**11/ 11/ 11**	**-**	**10 / 12 / 12**	**28 0**	**420**	**700**	**16(11+5)/ 17(11+6)/ 17(11+6)**

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SEMESTER-III

Sl No	Course Code	Course Name	Course Type	L	T	P	Evaluation Scheme		Total	Credits
							CIA	TEE		
1	AGRON512E/ AGRON509E	Dryland Farming and Watershed Management/ Agronomy of fodder and forage crops	Major Course	2/ 2	-	2/ 2	40	60	100	3(2+1)/ 3(2+1)
2	PGS504	Basic Concepts in Laboratory Techniques	Common Course	0	-	2	40	60	100	1(0+1)
3	PGS505	Agricultural Research, Research Ethics and Rural Development Programmes	Common Course	1	-	0	40	60	100	1(1+0)
4	SOIL508	Soil, Water and Air Pollution	Minor Course	2	-	2	40	60	100	3(2+1)
TOTAL				**5**	**-**	**6**	**160**	**240**	**400**	**8 (5+3)/ 8 (5+3)**

SEMESTER-IV

Sl No	Course Code	Course Name	Course Type	L	T	P	Evaluation Scheme		Total	Credits
							CIA	TEE		
1	AGRON513	Principles and practices of organic farming	Major Course	2	-	2	40	60	100	3(2+1)
2	AGRON550	Master's Seminar	Major Course	-	-	-	40	60	100	1
3	AGRON560	Master's research	Major Course	-	-	-	40	60	100	30
TOTAL				**2**	**-**	**2**	**120**	**180**	**300**	**34**

Supporting Courses

Course Code	Course Title	Credit
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)

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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)