



BRAINWARE UNIVERSITY
SCHOOL OF AGRICULTURE
DEPARTMENT OF AGRICULTURE
Master of Science in Agriculture – Agronomy -2025

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	280	420	700	16(11+5)/ 17(11+6)/ 17(11+6)



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SEMESTER-III

SI 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

SI 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)