

Detailed Program Scheme Master of Science in Agriculture (Agronomy)

(2024- 26)

DOC202406150005



RNB GLOBAL UNIVERSITY
RNB Global City, Ganganagar Road,
Bikaner, Rajasthan 334601

Document Release Notice

Detailed Program Scheme for All Semesters

Release: Version1.0

Name of Program	Master of Science in Agriculture (Agronomy)
Abbreviated Program Name	M.Sc. Ag. (Agronomy)
Updated on	October 2024
Approved By	BOS

OVERVIEW

RNB Global University follows Semester System along with Choice Based Credit System as per latest guidelines of University Grants Commission (UGC). Accordingly, each academic year is divided into two semesters, **Odd (July-December)** and **Even (January-June)**. Also, the university follows a system of continuous evaluation along with regular updating in course curricula and teaching pedagogy. Kindly be noted that Lab Includes: Laboratory work / Field Work/Industry Visits/Practical/Hands on Experience.

Course Scheme

Name of Program	Master of Science Ag. (Agronomy)
Duration of Program	2 years
Number of Semester	4
Total Credit of Program	71

DETAILED CREDIT STRUCTURE

Year1	Semester I	19 credits
	Semester II	16 credits
Year2	Semester III	15 credits
	Semester IV	21 credits
Total Credits		71 Credits

SEMESTER WISE COURSE DETAILS

Semester-I

S. No.	Category	Course Code	Course Name	L	T	P	Credits
1.	M	MSAC41100	Modern Concepts in Crop Production	3	0	0	3
2.	M	MSAC41101	Principles and Practices of Weed Management	2	0	0	2
3.	M	MSAC41102	Principles and Practices of Weed Management Lab	0	0	2	1
4.	M	MSAE41103	Principles and Practices of Organic Farming	2	0	0	2
5.	M	MSAE41104	Principles and Practices of Organic Farming Lab	0	0	2	1
6.	M	MSAE41105	Agronomy of major Cereals and Pulses	2	0	0	2
7.	M	MSAE41106	Agronomy of major Cereals and Pulses Lab	0	0	2	1
8.	Mi	MSAC51100	Physiological and molecular responses of plants to abiotic stresses	2	0	0	2
9.	Mi	MSAC51101	Physiological and molecular responses of plants to abiotic stresses Lab	0	0	2	1
10.	S	MSAC52100	Statistical methods for applied sciences	2	0	0	2
11.	S	MSAC52101	Statistical methods for applied sciences Lab	0	0	2	1
12.	C	MSAC55100	Library and information services	1	0	0	1
Total				14	0	10	19

M: Major course; Mi: Minor course; S: Supporting course; C: Common course

Semester-II

S. No.	Category	Course Code	Course Name	L	T	P	Credits
1.	M	MSAC41150	Principles and practices of soil fertility and nutrient management	2	0	0	2
2.	M	MSAC41151	Principles and practices of soil fertility and nutrient management Lab	0	0	2	1
3.	M	MSAC41152	Principles and Practices of Water Management	2	0	0	2
4.	M	MSAC41153	Principles and Practices of Water Management Lab	0	0	2	1
5..	M	MSAE41154	Dryland Farming and Watershed Management	2	0	0	2
6.	M	MSAE41155	Dryland Farming and Watershed Management Lab	0	0	2	1
7.	Mi	MSAE43150	Soil erosion and conservation	2	0	0	2
8.	Mi	MSAE43151	Soil erosion and conservation Lab	0	0	2	1
9.	Mi	MSAE43152	Analytical technique and instrumental methods in soil and plant analysis Lab	0	0	4	2
10.	C	MSAC55150	Technical writing and communication skills	1	0	0	1
11.	C	MSAC55151	Intellectual property and its management in agriculture	1	0	0	1
Total				10	0	12	16

M: Major course; Mi: Minor course; C: Common course

Semester-III

S. No.	Category	Course Code	Course Name	L	T	P	Credits
1.	S	MSAC52200	Experimental Designs	2	0	0	2
2.	S	MSAC52201	Experimental Designs Lab	0	0	2	1
3.	C	MSAC55200	Basic concepts in laboratory techniques Lab	0	0	2	1
4.	C	MSAC55201	Agricultural research, research ethics and rural development programmes	1	0	0	1
5.	E		Elective course (Non gradial)				
6.		DAPE99249	Thesis Research	10	0	0	10
Total				13	0	4	15

S: Supporting course; C: Common course; E: Elective course

Semester- IV

S. No.	Category	Course Code	Course Name	L	T	P	Credits
1.		DAPE99299	Thesis Research	20	0	0	20
2.		WHNN99000	Seminar	1	0	0	1
3	E		Elective course (Non gradial)				
4			Comprehensive Examination				Non credit
Total				21	0	0	21

E: Elective course

Elective courses (Non-gradial)*							
S.No.	Category	Course Code	Course Name	L	T	P	Credits
1	E	MSAE41200	Conservation Agriculture	1	0	0	1
2.	E	MSAE41201	Conservation Agriculture Lab	0	0	1	1
3.	E	MSAE41201	Agronomy of Fodder and Forage crops	2	0	0	2
4.	E	MSAE41202	Agronomy of Fodder and Forage crops Lab	0	0	1	1
5.	E	MSAE41203	Agronomy of oilseeds, fiber and sugarcane crops	2	0	0	2
6.	E	MSAE41204	Agronomy of oilseeds, fiber and sugarcane crops Lab	0	0	1	1
7.	E	MSAE41205	Agronomy of medicinal aromatic and underutilized crops	2	0	0	2
8.	E	MSAE41206	Agronomy of medicinal aromatic and underutilized crops Lab	0	0	1	1
8.	E	MSAE41207	Agrostology and Agro forestry	2	0	0	2
10.	E	MSAE41208	Agrostology and Agro forestry Lab	0	0	1	1
11.	E	MSAE41209	Cropping system and sustainable agriculture	2	0	0	2
*Student can choose any two elective courses (one in third semester and one in fourth semester)							

E: Elective course

EVALUATION SCHEME - THEORY

The evaluation of the theory paper of M. Sc. Ag. (Agronomy) program would be based on Internal and External Assessments. Internal Assessment would consist of 50% of the marks (50 marks) and external assessment (in form of End Term Exam) would consist of remaining 50% marks (50 marks). Detailed scheme of Internal and External Assessments as follows:

Internal Assessment

The distribution of Internal Assessment Marks is as follows:

Type	Details	Marks
Mid Term	One Mid-term Sessional	25
Marks obtained in various Tests, Assignments, Presentations, Quiz, Tutorials, etc.	Average of marks obtained	20
Academic and Course involvement		5
	TOTAL	50

External Assessment

Type	Marks
Theory	50

EVALUATION SCHEME - PRACTICAL

The evaluation of the practical paper of M. Sc. Ag (Agronomy) program would be based on Internal and External Assessments. Internal Assessment would consist of 50% of the marks (50 marks) and external assessment (in form of End Term Exam) would consist of remaining 50% marks (50 marks). Detailed scheme of Internal and External Assessment is as follows:

Internal Assessment

Type	Details	Marks
Marks obtained in various manuals, practical file, participation, any model prepared, output of practical	Average of marks obtained	45
Academic and Course involvement		5
	TOTAL	50

External Assessment

Type	Marks
Practical	50

EVALUATION SCHEME –THESIS RESEARCH AND SEMINAR

The evaluation of the Thesis Research of M. Sc. Ag. (Agronomy) program would be based on External Assessments. Detailed scheme of External Assessments as follows:

Assessment

The distribution of Assessment Marks is as follows:

Type	Details	Marks
Marks obtained Final thesis viva-voce	Average of marks obtained	1000
Research Seminar	Average of marks obtained	50
TOTAL	1050	

Evaluation of Thesis Research: Writing a research report (Thesis) on a particular concept or element within the syllabi and present that information in a published form. The procedure helps students gain experience in research, methodology, synthesis, evaluation and communication. The finished piece also illustrates these skills to potential employers after graduation. The M.Sc. Ag. (Agronomy) thesis is meant to shed new light on concepts or methods, perhaps suggesting different crop production models or implications of current aspects of the field applicable in the agriculture industry. Every student needs to take up a thesis project in the 3rd semester and should complete by the end of 4th semester. It carries 30 credits. The projects are mainly oriented either on Primary Research within certain agro-climatic conditions. The project is to be pursued by him / her under the supervision of an Internal Faculty supervisor, which is to be appointed by the Dean. Prior to starting a research, students must go through the proposal stage, during which students will develop their proposal and have it reviewed by his/her research advisor. The student needs to submit his Project report (Thesis) in 4 copies at least four weeks prior to the commencement of the End Term Examination of the fourth Semester. For the ease of students understanding, Project (Thesis) is evaluated by the external examiner for a total of 100 marks including Presentation & Viva Voce. Marks obtained are later converted into grade & grade points as per the University Examination Policy.

-----End of document-----