

# Faculty of Agricultural Sciences & Allied Industries

Rama University, Uttar Pradesh, Kanpur

(Vide U.P. Act No. 1 of 2014 as passed by State Legislature and recognized by UGC U/s 2 (f))

F.N.Aagri./Dean/2025/717.1

Dated: 15/7/2025

## NOTICE

This is to inform all concerned that Faculty of Agricultural Sciences & Allied Industries will be conducting a “**Board of Studies (BOS)**” meeting on **18<sup>th</sup> July 2025**.

All Board of Studies (BOS) members are requested to kindly make it convenient to attend.

(Dr. Aneeta Yadav)

Dean  
Faculty of Agricultural Sciences  
& Allied Industries  
Rama University, Mandhana, Kanpur (U.P.)



# Rama University Uttar Pradesh, Kanpur

Ref: RU/FASAI/BOS/2025/

Dated: 18/7/2025

Faculty of Agricultural Sciences & Allied Industries


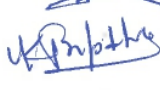



Minutes of Meeting

Boards of Studies

A meeting of Boards of Studies for B.Sc. (Agriculture), M.Sc. Agriculture (Genetics and Plant Breeding/Agronomy/Horticulture (Fruit Science & Vegetable Science) /Soil Science/Plant Pathology/Agriculture Extension/ Agricultural Economics) and Ph. D. in specialized fields of Agriculture held on 18<sup>th</sup> July 2025 at 11:00 AM in Dean Office. The following members were present:

- |                           |               |  |
|---------------------------|---------------|--|
| 1. Dr. Aneeta Yadav       | - Chairperson |    |
| 2. Dr. Vinay Joseph Silas | - Member      |  |
| 3. Dr. Kartikay Bisen     | - Member      |   |
| 4. Dr. Ravi Kesh Pal      | - Member      |  |
| 5. Dr. Raghvendra Singh   | - Member      |  |
| 6. Dr. Anuj Tiwari        | - Member      |  |
| 7. Dr. Ashish Srivastava  | - Member      |  |

The following members agreed to review the minutes.

- |                           |                   |   |
|---------------------------|-------------------|---|
| 1. Dr. D. D. Yadav        | - External Member |  |
| 2. Dr. U. K. Tripathi     | - External Member |  |
| 3. Dr. Anand Singh        | - External Member |   |
| 4. Dr. A. K. Singh        | - External Member |  |
| 5. Dr. Debjyoti Sen Gupta | - External Member |  |



6. Dr. A. K. Pal

- External Member

A.K. Pal  
16/07/2025

7. Dr. Satendra Kumar

- External Member

Satendra Kumar

8. Dr. O. P. Singh

- External Member

O.P. Singh

**Agenda:**

**1. Action Taken Report (ATR) on Minutes of Previous Meeting.**

The BOS committee confirmed the minutes of the BoS meeting held on 19<sup>th</sup> September, 2024.

**2. Review of the existing programs and their curricula**

S. No.	Item No.	Existing	Recommendation /Action Taken
1.	<b>RU/FASAI/BOS/2025/001</b> To review the persisting syllabus of B. Sc. Ag.& M. Sc. Ag. and to recommend the changes required for the academic session 2024-25. The incorporation of attainment matrix with reference to PO and CO.	ICAR V <sup>th</sup> Dean's Committee.	The committee recommended to follow the persisting syllabus as per the ICAR V <sup>th</sup> Dean's Committee. The incorporation of attainment matrix with reference to PO and CO may be introduced as per the need, in the academic session 2025-26 for UG program towards excellence in teaching learning evaluation.
2.	<b>RU/FASAI/BOS/2025/002</b> Panel of External Examiners	-	Panel of external examiners for semester final exams as well as practical exams is submitted for approval
3.	<b>RU/FASAI/BOS/2025/002</b> To review the persisting syllabus of M.Sc. Ag & Ph.D. To recommend the change required for the academic session 2025-26.	-	The committee recommended to follow the persisting syllabus



### 3. Recommendation on New courses/Short term training

S. No.	Item No.	Feedback from Faculty/Student	Recommendation /Action Taken
1	<b>RU/FASAI/BOS/2025/003</b> To Consider incorporation of JeevanKaushal 2.0, IKS and NEP for the Academic session 2025-26	Based on the need and the relevance of the prescribed syllabus by ICAR	The committee recommended that the syllabus already covers the major aspects of NEP like multidisciplinary courses, continuous assessment, elective subjects as well as skill oriented concerns. In compliance with IKS, the subjects like Agricultural Heritage UGR 111 and other fundamental courses are already exists, hence can be continued for the Academic session 2025-26
2	<b>RU/FASAI/BOS/2025/004</b> To Consider the syllabus of Ph.D. (Agri. Extension) as a new programme for the Academic session 2025-26	Based on the subject demand and Query by students	The committee recommended the syllabus and programme to be run without any change for Academic session 2025-26 without any change.
3	<b>RU/FASAI/BOS/2025/005</b> Conduction of career oriented short term courses (30 Hours)	Training/ certificate based short term courses for developing practical skills is suggested	Few short term courses are proposed for enhancing the knowledge and skills of students. Any new trend based course apart from the mentioned titles may also be introduced as per the requirement: <ol style="list-style-type: none"> <li>1. "Hands on training on basic Plant tissue culture techniques"</li> <li>2. "Analysis and testing for quality maintenance in seed production"</li> <li>3. "Transforming Farming with DSR"</li> <li>4. Any other</li> </ol>



			trending and relevant topics as per the need of time.
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#### 4. Consideration of the curricula of the new programs

S. No.	Item No.	Feedback from Faculty/subject experts/Industries	Recommendation /Action Taken
1	RU/FASAI/BOS/2025/006Exposure visits (Industry and Institutes)	All the courses are already based on entrepreneurship skills, recent trends and practical based applications to enhance the knowledge of students.	Applicability of the courses will be thoroughly discussed along with exposure visits as per need of the subject.

#### 5. Review of Teaching Process/Pedagogy

S. No.	Item No.	Existing	Recommendation /Action Taken
1	RU/FASAI/BOS/2025/007Enrichment in teaching Pedagogy for better understanding	Audio visible aids, Projectors, white board, Peaceful learning environment	Proper interaction with students, involve the students in training & learning program and experimental learning by doing principle must be adopted.

**6. Result Analysis:** --- Summary of Result Analysis of the students' performance in the previous semester examination was presented and it was suggested that the course instructors should conduct remedial classes for the students whose performance was not found satisfactory and the subjects where results are below standards.

**7. Feedback Analysis:** --- Analysis was performed based on summary of already collected feedback from students and the course instructors have been instructed for improvement in teaching pedagogy for better understanding of students in the cases where the feedback is below average.



**8. Any other issue with the permission of the Chair: ---- No**

The meeting concluded with a vote of thanks to the chair. Date of the Next Meeting: to be decided and conveyed later

  
Dr. Anceeta Yadav  
(Chairperson)

*Encl.: Recommended Evaluation scheme and Curricula (If modified) attached for consideration and approval.*

CC:

1. Dean, Academic Affairs
2. Registrar Office

**RAMA UNIVERSITY UTTAR PRADESH,  
KANPUR**

**Faculty of Agricultural Sciences and Allied Industries**



**SYLLABUS &  
EVALUATION SCHEME**  
[Effective from the Session 2025-26]

**M.Sc. (Ag) Plant Pathology**



**M.Sc. (Ag.) Plant Pathology**  
**Faculty of Agricultural Sciences and Allied Industries**  
**RAMA UNIVERSITY UTTAR PRADESH, KANPUR**

A meeting of the Board of Studies of the Faculty of Agriculture & Allied Sciences, Rama University Uttar Pradesh, Kanpur was held on 16<sup>th</sup> July 2025 at 11 AM. The following members were present:

- |                               |                 |
|-------------------------------|-----------------|
| 1. Dr. Aneeta Yadav           | Convener        |
| 2. Dr. Vinay Joseph Silas     | Member          |
| 3. Dr. Kartikay Bisen         | Member          |
| 4. Prof. (Dr.) U. K. Tripathi | External Member |

The quorum of the meeting was complete.

**Agenda of the meeting:**

1. Assessment Criteria
2. Question Paper Format
3. Syllabus

The meeting resolved unanimously that attached Assessment Criteria, Question Paper Format and Syllabus are justified and approved.

**Convener**

Signature: \_\_\_\_\_

Name : Dr. Aneeta Yadav

Date : 16/7/25

**Internal Members**

Signature: 1. \_\_\_\_\_

Name: Dr. Kartikay Bisen

Date: 16/7/25

2. \_\_\_\_\_

Dr. Vinay Joseph Silas

**External Members**

Signature: 1. \_\_\_\_\_

Name: Prof. (Dr.) U. K. Tripathi

Date: 16/7/25



**RAMA UNIVERSITY**

**Faculty of Agricultural Sciences & Allied Industries**



**ORDINANCE**

**For**

**M.Sc. (Ag) Department 2025-26 PROGRAMME**

**(All Streams)**

A handwritten signature in blue ink, located at the bottom right of the page. The signature is stylized and appears to be a cursive script.

## 1. Program Name & Code

- **Program Name:** Master of Science in Agriculture - (Agronomy/Horticulture-Fruit. Sc./Veg. Sc./Soil Science/Plant Pathology/Genetics & Plant Breeding/Agricultural Economics/ Agricultural Extension)
- **Program Code:** M.Sc. (Ag) Agronomy-802, M.Sc. (Ag) Soil Sc.-805, M.Sc (Ag) Genetics & Plant breeding-806, M.Sc. (Ag) Extension Education-809, M.Sc. (Ag) Plant Pathology-808, M.Sc. (Ag) Economics-815, M.Sc. (Ag) Fruit Sc.-816, M.Sc. (Ag) Veg Sc.-817.

## 2. Eligibility Criteria

- The candidate must have successfully completed a **B.Sc. Agriculture** or an equivalent degree in Agriculture or related discipline from a recognized University.
- Minimum aggregate marks required: **55%** for General/OBC candidates and **50%** for SC/ST candidates (or as per Government/University norms).
- Admission preference will be given to candidates qualifying **ICAR/UPCATET/CUET** and University-conducted entrance tests.

## 3. Admission Procedure

- Admission will be made strictly on the basis of **merit in the entrance examination** conducted by Rama University RUET
- Reservation of seats will be as per the Government of Uttar Pradesh/University norms.
- Final admission is subject to verification of original documents and fulfillment of eligibility criteria.

## 4. Duration of Program

- **Normal Duration:** 2 academic years (4 semesters) of full-time study.

## 5. Maximum Duration for Completion

- The maximum period allowed for completing the program is **4 academic years** from the date of admission.
- After this period, the student's enrollment shall stand automatically canceled unless special approval is granted by the University.

## 6. Medium of Instruction



- The medium of instruction and examination will be **English**.
- Use of scientific terms in Hindi is permitted for clarity in certain contexts.

## 7. Structure of the Program

- The program will be based on **ICAR-recommended postgraduate curriculum**, consisting of:
  - **Major Courses** (Core discipline specialization)
  - **Minor Courses** (Related discipline)
  - **Supporting Courses** (Interdisciplinary knowledge)
  - **Seminar Courses**
  - **Master's Research (Thesis)**
- Credit requirement for award of degree: **Minimum 55 credits** (Major: ~20–25 credits, Minor: ~8–10 credits, Supporting: ~5–6 credits, Seminar: 2 credits, Research: ~20–25 credits).
- The program shall also be followed by the **ICAR** as well as other **Central & State Agriculture University** for M.Sc. Agriculture

## 8. Marks/Credit Distribution

- **Sessional:** The internal assessments in theory conducted normally through two-tests and assignments, with **20 marks and 20 marks** respectively. The internal assessments in practical subjects conducted with **50 marks**. The External assessments in practical subjects conducted with **50 marks**. Sessional weightage shall be normally performed by the concerned teacher. Thus, total 50% internal assessment. While in case of only theory subjects, internal assessment conducted normally through two-tests and assignments, with **20 marks and 20 marks** respectively and in case of only practical subjects, evaluation will be done for cumulative 50 marks based on Practical record, assignment, viva-voce etc. resulting in 50% internal evaluation.
- **Semester Examinations:** The semester final examinations conducted for summative evaluation of course. The duration of these examinations shall be 3 hours for theory and practical courses and total evaluation will be done for 50 % marks as external evaluation.
- **Seminar:** 100% internal evaluation.
- **Thesis:** Evaluated as per University guidelines with internal and external examiners.
- **Credit Calculation:** 1 credit = 1 hour theory/week OR 2 hours practical/week.

## 9. Evaluation Procedure



- a. **Sessional:** The laboratory course sessional evaluations shall be performed continuously based on practical performed by a student. Such evaluation may involve periodic assessment of documentation of the practical exercise/experiment, precision of experiment etc. In the case of Project /Dissertation the Internal Assessment may be based on periodical progress report.
- b. **Semester Examination:** The Semester Examination shall commence during the first week of December/May for the Odd semester/Even semester courses, respectively.
- c. **Appointment of Examiners:** Head of the department shall normally appoint the examiners for different courses, selecting at least two other than the concerned teachers, randomly for theory courses in each of the semesters. In case of Lab/Projects/Viva-Voce examinations there shall be one internal and one external examiner. A sizable panel of external examiners shall be approved by the BOS on annual basis to facilitate the appointment of external examiners.
- d. **Moderation:** A committee duly constituted by BOS as follows, shall moderate the examination papers and shall have the right to improve / change the questions to a considerable extent:

- i. Dean (Chairman)
- ii. Head of the department (Convener)
- iii. Three Faculty Members nominated by the Dean

**f. Examination**

- External theory (60%)
- External Practical (50%)
- Courses with Internal Theory and Practical  
Mid-term Exam & Continuous Evaluation (40%) + Practical (50%)
- Courses with only Theory  
Mid-term Exam (20%) + Assignment (20%)
- Courses with only Practical:  
(100%) Internal



- Paper to be set by external: HOD shall ensure the coverage of syllabus. If needed moderation can be done.
- ii. Evaluation to be done internally by the faculty other than the Course Instructor. Syllabus of the concerned course shall be sent to the external examiner, who shall prepare the question papers. For practical, it is recommended that examination shall be conducted by course instructor(s) and one teacher nominated by HOD.
- a. For non credit courses '**Satisfactory**' or '**Unsatisfactory**' shall be indicated instead of the letter grade and this will not be counted for the computation of CGPA.

#### ii. **Transcripts (Format):**

Based on the above recommendations on Letter grades, grade points, OGPA and CGPA, the Higher Education Institutions may issue the transcript for each semester and a consolidated transcript indicating the performance in all semesters.

#### i. **Review and Re-evaluation:**

Review and re-evaluation of the answer sheets shall be as per the university rules.

### 10. **Rules for Backlogs / Supplementary Exams**

- A student failing in any course may appear for the **supplementary examination** within the permitted schedule.
- All backlogs must be cleared within the **maximum program duration**.
- A student who fails in thesis evaluation may be given one additional opportunity after incorporating suggested corrections, within the maximum duration limit.

### 11. **Special Academic Requirements**

- Successful completion and defense of **Master's Thesis** is mandatory for the award of the degree.
- Minimum **75% attendance** in each course is required to be eligible for examinations.

- Participation in **seminars, research methodology workshops, and departmental activities** is compulsory.

## **12. Other Specific Rules**

- Students must adhere to the University's **Code of Conduct**.
- **Plagiarism check** is mandatory for thesis submission; acceptable similarity index will be as per University norms.
- Wearing prescribed **laboratory/field dress code** during practical work is compulsory.
- Ragging and use of unfair means in examinations are punishable as per University and State laws.

A handwritten signature in blue ink, appearing to be 'Anub', with a long horizontal stroke extending to the right.







Faculty of Agricultural Sciences & Allied Industries  
Rama University, Uttar Pradesh, Kanpur  
Course Detail and Evaluation Scheme  
(Effective from the Session 2025-26)

**M.Sc.(Ag.) Plant Pathology FIRST YEAR (SEMESTER-I)**

S.N.	Subject Code	Subject Name	Period			Evaluation Scheme			Subject Total	Credit Hours
			L	T	P	CE	MTE	ETE		
Theory subjects										
1	MSPP-101	Mycology	2	0	0	20	20	60	100	2
2	MSPP-102	Plant Virology	2	0	0	20	20	60	100	2
3	MSPP-103	Plant Bacteriology	2	0	0	20	20	60	100	2
4	MSPP-104	Principles of Plant Pathology	3	0	0	20	20	60	100	3
5	MAS-104	Computer Application**	2	0	0	20	20	60	100	2
Practical's / Project										
1	MSPP-151	Mycology	0	0	1	30	20	50	100	1
2	MSPP-152	Plant Virology	0	0	1	30	20	50	100	1
3	MSPP-153	Plant Bacteriology	0	0	1	30	20	50	100	1
4	MAS-153	Computer Application	0	0	1	30	20	50	100	1
Total			11	0	4	220	180	500	900	15




**Faculty of Agricultural Sciences & Allied Industries**  
**Rama University, Uttar Pradesh, Kanpur**  
**Course Detail and Evaluation Scheme**  
**(Effective from the Session 2025-26)**

**M.Sc.(Ag.) Plant Pathology FIRST YEAR (SEMESTER-II)**

S.N.	Subject Code	Subject Name	Period			Evaluation Scheme			Subject Total	Credit Hours
			L	T	P	CE	MTE	ETE		
Theory subjects										
1	MSPP-201	Principles of Plant disease management	2	0	0	20	20	60	100	2
2	MSPP-202	Diseases of fruits, plantation and ornamental crops	2	0	0	20	20	60	100	2
3	MSPP-203	Diseases of vegetables and spices crops	2	0	0	20	20	60	100	2
4	MAS- 205	Experimental Design**	2	0	0	20	20	60	100	2
Practical's / Project										
1	MSPP-251	Principles of Plant disease management	0	0	1	30	20	50	100	1
2	MSPP-252	Diseases of fruits, plantation and ornamental crops	0	0	1	30	20	50	100	1
3	MSPP-253	Diseases of vegetables and spices crops	0	0	1	30	20	50	100	1
4	MAS- 255	Experimental Design	0	0	1	30	20	50	100	1
5	MSPP-254	Master's Seminar	0	0	1	0	100	0	100	1
6	MSPP-255	Master Research Synopsis	0	0	1	Satisfactory/Non-satisfactory				1
	Total		8	0	6	200	260	440	900	14

\*\* Basic supporting course






**Faculty of Agricultural Sciences & Allied Industries**  
**Rama University, Uttar Pradesh, Kanpur**  
**Course Detail and Evaluation Scheme**  
**(Effective from the Session 2025-26)**

**M.Sc.(Ag.) Plant Pathology SECOND YEAR (SEMESTER-III)**

S.N.	Subject Code	Subject Name	Period			Evaluation Scheme			Subject Total	Credit Hours
			L	T	P	CE	MTE	ETE		
Theory subjects										
1	MSPP-301	Chemicals in Plant disease management	2	0	0	20	20	60	100	2
2	MSPP-302	Biological control of plant Diseases	2	0	0	20	20	60	100	2
3	MSPP-303	Integrated Diseases management	2	0	0	20	20	60	100	2
4	MSPP-304	Epidemiology and forecasting of plant Diseases	2	0	0	20	20	60	100	2
5	MSPP-305	Plant quarantine	2	0	0	20	20	60	100	2
6	PGS-301	History of Agriculture*	1	0	0	20	20	60	100	1
Practical's / Project										
1	MSPP-351	Chemicals in Plant disease management	0	0	1	30	20	50	100	1
2	MSPP-352	Biological control of plant Diseases	0	0	1	30	20	50	100	1
3	MSPP-353	Integrated Diseases management	0	0	1	30	20	50	100	1
4	MSPP-354	Epidemiology and forecasting of plant Diseases	0	0	1	30	20	50	100	1
Total			11	0	4	240	200	560	1000	15

\* Minor Course



**Faculty of Agricultural Sciences & Allied Industries**  
**Rama University, Uttar Pradesh, Kanpur**  
**Course Detail and Evaluation Scheme**  
**(Effective from the Session 2025-26)**

**M.Sc.(Ag.) Plant Pathology SECOND YEAR (SEMESTER-IV)**

S.N.	Subject Code	Subject Name	Period			EVALUATION SCHEME			Subject Total	Credit
			L	T	P	CE	MTE	ETE		
1.	MSPP-402	Master's Research (Research Work & Thesis/project)	Satisfactory/ Non satisfactory							18
										18

**Evaluation Scheme:**

L-Lecture, T-Tutorial, P- Practical, CE- Continuous Evaluation, MTE-Mid Term Examination, ETE-End Term Examination

• **Course without practical components**

For Continuous Evaluation (CE) is such as: 20 Marks

- 1 Class performance : 5 Marks
- 2 Assignments/Quiz / Seminar/Term paper /Project :15Marks

MTE - Mid Term Examination: 20 Marks

- a. First Mid Term Examination: 10 marks
- b. Second Mid Term Examination: 10 marks

ETE - End Term Examination: 60 Marks

• **Course with practical components only**

For Continuous Evaluation (CE) is such as: 30 Marks


Conduct / Perform/Execution /Practical File/ Viva-Voice

MTE - Mid Term Examination: 20 Marks

- a. First Mid Term Examination: 10 marks
- b. Second Mid Term Examination: 10 marks

ETE - End Term Examination: 50 Marks

**Convener**

Signature: 

Name :

Date : 16/7/25

**Internal Members**

Signature 1: 

Name: Dr. Kartikay Bisen

**External Members**

Signature: 1..... 

Name: (U K Tripathi)

**RAMA UNIVERSITY UTTAR PRADESH, KANPUR**

**Faculty of Agricultural Sciences and Allied Industries**

**Department of Plant Pathology**

**Program: Master of Science (M.Sc.)**

**Report on Feedback on Curriculum by Stakeholders**

### **1. Integration of Emerging Areas**

Feedback highlights exciting gaps in the curriculum, particularly around cutting-edge topics like climate change-driven disease dynamics, digital disease modelling, and plant microbiome interactions.

Introducing these would help keep the programme in sync with global trends and research frontiers.

### **2. Industry-Relevant Projects & Soft Skills**

Several stakeholders suggest incorporating project-based collaborations with agricultural firms, biocontrol startups, or research institutions. This gives students exposure to real-world problem-solving.

Employers also recommend strengthening softskill development—for example, through seminars on communication, scientific writing, data analytics, and regulatory compliance.

### **3. Need for Exposure to Regulatory and Certification Standards**

### **4. More Competitive Exam Preparation Support**



**RAMA UNIVERSITY UTTAR PRADESH, KANPUR**

**Faculty of Agricultural Sciences and Allied Industries**

**Department of Plant Pathology**

**Program: Master of Science (M.Sc.)**

**Action Taken Report based on Feedback at BoS held on 18/07/2025**

**Action Taken**

**1. Inclusion of Emerging and Advanced Topics**

Guest lectures on **plant microbiome**, **CRISPR-based pathogen detection**, and **AI in disease forecasting** have been incorporated and webinars from researchers in frontier areas are scheduled each semester.

**2. Exposure to Regulatory and Certification Standards**

Collaborations were initiated with the **National Plant Protection Organization (NPPO)** and the **Agricultural and Processed Food Products Export Development Authority (APEDA)** to provide expert guest lectures.

Students are now taken on visits to **quarantine and inspection centers** as part of their practical exposure.

**3. More Competitive Exam Preparation Support**

A **free weekend crash course** on ICAR-NET and ARS preparation was introduced in association with the **University Competitive Exam Cell**.

Online mock tests, recorded lectures, and notes are now available via the Learning Management System (LMS).

Top-performing students in mock exams are now provided **mentorship and coaching support** for fellowships and PhD entrance tests.

  
BoS Chairman

  
Members