

सेवा में,

कुलसचिव जी

राजा महेंद्र प्रताप सिंह विश्वविद्यालय, अलीगढ़

महोदय,

विश्वविद्यालय की पत्रांक संख्या : आर०एम०पी०यू० / 862 /2025 दिनांक 30/04/2025 द्वारा माननीय कुलपति जी के आदेशानुसार बी०एससी० कृषि एवं एम०एससी० कृषि का अध्यादेश तैयार करने हेतु एक तीन सदस्य समिति का गठन किया गया था। उक्त समिति की एक आवश्यक बैठक दिनांक 02/05/2025 को विश्वविद्यालय परिसर में की गयी, जिसमें निम्न सदस्य उपस्थित हुए -

1. प्रो० शुभनेश कुमार गोयल संयोजक
 2. प्रो० यू०पी० साही (सरदार वल्लभ भाई पटेल कृषि एवं प्रौद्योगिकी विश्वविद्यालय, मेरठ)
- राजा महेंद्र प्रताप सिंह विश्वविद्यालय परिसर में कार्यरत अन्य विशेष आमंत्रित अतिथि प्रवक्तागण -
3. डॉ. सफ़दर कैसर हाशमी (Department of Plant Pathology)
 4. डॉ. मोहम्मद जुहैब (Department of Plant Pathology)
 5. डॉ. मोहम्मद हारिस (Department of Genetics and Plant Breeding)
 6. डॉ. विजेंद्र सिंह (Department of Agronomy)
 7. डॉ. अजीत सिंह आर्य (Department of Agronomy)

उक्त समिति के सदस्यों द्वारा बी०एससी० कृषि एवं एम०एससी० कृषि के वर्तमान में प्रभावी अध्यादेश पर विस्तृत चर्चा की गयी। विश्वविद्यालय परिसर एवं इससे सम्बद्ध महाविद्यालयों में कृषि संकाय में अध्ययनरत छात्रों एवं सम्बंधित संस्थाओं के दृष्टिकोण से, अन्य विश्वविद्यालयों में प्रभावी अध्यादेश के अवलोकन में, क्षेत्रीय आवश्यकताओं के अनुरूप, नियामक संस्था Sixth Deen Comittee (ICAR) द्वारा अनुमोदित संरचना के अनुपालन में, सर्वसम्मति से निम्न प्रस्ताव अनुमोदित किये जा रहे हैं-

1. स्नातक स्तर पर क्रेडिट निर्धारण तथा Multiple Entry and Exit को अधिक स्पष्ट किया गया है।
2. परास्नातक स्तर पर मेजर तथा माइनर विषयों के चयन में (बिंदु -13) स्पष्ट व्यवस्था करते हुए सभी संकायों के प्रथम प्रश्नपत्र को, अन्य संकाय के छात्रों द्वारा, माइनर विषय के रूप में चुनने का विकल्प प्रदान किया गया है। इस सन्दर्भ में Genetics and Plant Breeding, Plant Pathology एवं Agronomy की संभावित पाठ्यक्रम संरचना संलग्न है।

अपेक्षित अध्यादेश (संलग्न पृष्ठ संख्या 1-12) विद्या परिषद् के समक्ष अनुमोदन हेतु प्रेषित किया जा रहा है।

दिनांक : 22/06/2025

प्रो० शुभनेश कुमार गोयल

धर्म समाज महाविद्यालय

अलीगढ़

**RAJA MAHENDERA PRATAP SINGH UNIVERSITY
ALIGARH**

ORDINANCES FOR B.Sc. (Hons) Agriculture and M.Sc. Agriculture

1. Preamble: In order to unify and regulate the academic activities in professional courses, namely B.Sc. (Hons) Agriculture and M.Sc. Agriculture, these rules are being framed as per sixth deans committee (ICAR) and will be the part of ordinances of said courses.

2. Definitions of Academic Terms

Course Means a unit of instructions in a discipline carrying specific number and credit(S) and to be covered in a semester as laid down in detail in the syllabus of a degree programme.

Course Content means a concise outline of the subject matter of a course

Credit means the unit of work load per week for a particular course in theory and practical. One credit of the theory means one period hour (50 minutes) duration and one credit practical means one class of minimum two period hours of laboratory work or three hours of field work per week

Credit Load of a student refers to the total number of credits of all courses he/she registers during a particular semester

Curriculum means a series of courses selected and design to provide training to meet the prescribed requirement for a degree programme

Point (P) of a course is a measure of performance it is obtained by dividing the percent marks secured in a particular course by 10, expressed up to second decimal place.

Grade point (GP) refers to the points multiplied by the number of credits of the course expressed up to the second decimal place

Grade Point Average (GPA) Means the total points earned by a student divided by total numbers of credits of all the course registered in a semester, expressed upto second decimal place i.e. Total grade points secured / Total Credits (for I semester only)

Cummulative grade point Average (CGPA) Means the total credit points earned by a student divided by the total number of credits registered until the end of a semester (all completed semesters), expressed up to second decimal placed after replacing failed grade point by passing grade point of a repeated course i.e. $CGPA = \frac{\sum \text{Total Grade Points Secured}}{\sum \text{Course credits}}$

Overall grade point average (OGPA) Means the Total credit point earned by a student in the entire degree programme divided by the total numbers of credits required for the degree expressed up to second decimal place after replacing failed grade point by passing grade point of all repeated courses.

OGPA = $\frac{\sum \text{Total Grade point earned (After excluding failure Grade Points)}}{\sum \text{Course Credits}}$

3. Duration of the Degree Programmes

- i. The Academic year shall generally commence from July of each year. However, Academic Council has the authority to decide the exact dates and month of commencement and termination of academic year. An academic year shall be divided into two semesters.
- ii. The duration of the course of instruction for the degree of B.Sc. (Agriculture) Honours shall be eight semesters (8) i.e. four years. This course of studies will consist of seven semesters of intramural teaching followed by eighth semester of Student READY programme (Rural Entrepreneurship in Agriculture Development Yojna). The maximum allowable semesters for completion of B. Sc. (Ag.) Honours course are sixteen (16) i.e. eight years. The duration will be counted from the date of admission to first semester for the first time.
- iii. There shall be eight examinations in under graduate programmes, namely First (I), Second (II), Third (III), Fourth (IV), Fifth (V), Sixth (VI), Seventh (VII) and Eighth (VIII) semester. These examinations shall be held as per university calendar.
- iv. There shall be four examinations in Post-graduate programmes, namely First (I), Second (II), Third (III), Fourth (IV) semester. These examinations shall be held as per university calendar
- v. Candidates admitted to the UG & PG course shall abide by the regulations regarding the courses curricula and the academic standards as prescribed by the University/ICAR from time to time

Residential Requirement

- i. Students who exit with a UG- Certificate or UG- Diploma are permitted to re-enter within three academic years and complete the degree programme.
- ii. Students may be permitted to take a break from the study during the period of study but the total duration for completing the programme shall not exceed 7 years
- iii. The minimum and maximum duration of residential requirement for Masters Programme will be 2 and 5 Academic Years respectively

Degree Programmes	Duration of Residential Requirement	
	Minimum	Maximum
B.Sc. (Hons) Agriculture	4 Academic Years (8 Semesters)	8 Academic Years (16 Semesters)
M.Sc. Agriculture	2 Academic Years (4 Semesters)	5 Academic Years (8 Semesters)

4. Course Curriculum and Syllabus

- i. In UG and PG the University has adopted the semester-based course work and education system according to ICAR. A course will have a specified number or code, title and credits. A credit signifies the value of a course work in the semester system.
- ii. The University shall follow the model syllabus as prescribed by the ICAR 6th Deans committee for Undergraduate degree programme, B.Sc. (Hons) Agriculture.
- iii. The University shall follow the model syllabus as prescribed by the ICAR restructured and revised syllabi of Post graduate degree programmes, M.Sc. Agriculture.
- iv. The courses to be offered in particular semester shall be finalized by Board of Studies and discussed in the meeting with the concerned faculty. The recommendations of the Agriculture Board followed by Board of Studies shall be placed before the Academic Council for approval. The Registrar will then notify the courses to be offered.
- v. The credits and marks allotted to each theory course/practical course / project/dissertation/ seminar and viva-voce shall be as prescribed by the Academic Council on the recommendations of the Board of Studies of the concerned Department.

5. Course Credit Requirements for Degree Programme

- i. The course credit requirements for undergraduate programme shall be based on the model syllabus as prescribed by the ICAR with minor changes to meet the regional needs.
- ii. A total of 166-174 credit hours is recommended for the four years of UG programme
- iii. The course credit requirement for undergraduate programme shall be in accordance with Sixth deans committee report of ICAR . The general structure is give in table

Credits Allocation Scheme of B. Sc. (Hons.) Agriculture

Summary of Credit distribution		
Type of courses	:	Credits
Core courses (Major & Minor/s)	:	112
Common courses (MDC+VAC+AEC)*	:	23
Skill Enhancement Courses (SEC)	:	12
Internship/ Student READY	:	20
MOOCS/SWAYAM**	:	10 non-gradual
Total	:	167+10**

*MDC: Multi- Disciplinary Course; VAC: Value Added Course; AEC: Ability Enhancement Course

The Total course credit requirement for various degree programmes shall be as follows:

S.NO.	Programme	Course Credit								
		Core Course credit	Multi-Disciplinary Course (MDC)	Value Added Course (VAC)	Ability Enhancement Course (AEC)	Skill Enhancement Course (SEC)	Student READY	Internship	MOOCS / SWAYAM	Total Credit
a)	UG- Certificate in Agriculture *	22	03	03	06	08	-	10*	-	42/52
b)	UG- Diploma in Agriculture *	52	6	6	8	12	-	10*	-	84/ 94
c)	B.Sc. (Hons) Agriculture	112	9	6	8	12	20		10	177

Note: (*)

- a) After satisfactory completion of **42 credits** of courses in two semesters of 1st year and subsequent satisfactory completion of 10 credits (10 weeks) of industry/ institute training/ internship, the student will become eligible for the award of **UG-Certificate in Agriculture** on exit. The students continuing the study further would not have to attend the internship after 1st year.
- b) After satisfactory completion of the courses (**84 credits**) during first two years and subsequent satisfactory completion of 10 credits (10 weeks) of internship, the student will become eligible for the award of **UG-Diploma in Agriculture** on exit. The students continuing the study further would not have to attend the internship after 2nd year.
- c) After satisfactory completion of the courses (**177 credits**) during four years, the student will become eligible for the award of **B.Sc. (Hons) Agriculture** on exit.
- vi. The course credit requirement for post-graduate programme shall be in accordance with ICAR (restructured and revised syllabi of Post graduate degree programmes).
The general structure is given table below

For M.Sc. (Ag) following nomenclature and credit allocation need to be followed

S.No.	Course	Credits allocated
1.	Major Courses	20
2.	Minor Courses	08
3.	Supporting Courses	06
4.	Common Courses	05
5.	Seminar	01
6.	Thesis	30
	Total	70

- a) **Major courses:** From the Discipline in which a student takes admission. Among the listed courses, the core courses compulsorily to be taken may be given *mark.
- b) **Minor courses:** From the subjects closely related to a student's major subject
- c) **Supporting courses:** The subject not related to the major subject. It could be any subject considered relevant for student's research work (such as Statistical Methods, Design of Experiments, etc.) or necessary for building his/ her overall competence

7. Study Tour

- i. There will be a study tour of 10-14 days' duration during **5th semester** of UG programme. The course will be of (0+2) credits, non-gradual.
- ii. In PG programme, the study tour will be the part of practical classes, as and when required

8. Students' Attendance

- i. Each course teacher shall maintain a Students Attendance Register in each semester in the format prescribed by the University. Each student shall be regular in attending classes and shall be required to have a minimum of 75% attendance in each course in each semester, failing which he shall be awarded failure grade in that course.
- ii. The percentage of attendance of a student in a course in a semester shall be computed on the basis of the total number of lectures, practical and tutorials attended by him/her and those actually held between the date of commencement of instructions and the date of closing of instruction, irrespective of the date of registration or the duration of leave granted to him/her provided that attendance in respect of the student representing the University in games, sports and debates etc. outside the campus shall be calculated after ignoring the period which they spent outside the campus on due authorization by the Principal/Dean of college.
- iii. The Principal/Dean of the College on the recommendation of the course teacher and Head of the Department may condone the shortage of attendance up to five percent (5%) on valid grounds and allow students with an attendance of 70 % or more to appear in the final examination.

9. Seminar M.Sc. (Ag) students:

There shall be one seminar mandatory in Masters (One Credit). The students should be encouraged to make presentations on the latest developments and literature in the area of research topic

10. Examination and Evaluation System:

- i. A candidate shall be declared successful in the B.Sc. (Agriculture) Honours examination if he/she secures at least 33% marks separately in each component of the **internal** i.e. Mid-term + practical and **external** (theory) assessments of each course (paper), and obtains at least 40% (AGP 4.0) marks in aggregate of each course (internal + external). 50% marks in the aggregate of all subjects, in the

university examination and internal assessment together. **Aggregate of 50 % (OGPA 5.0) to pass for successful completion of B.Sc. (Agriculture) Honours degree.**

- ii. Candidate may appear in external examination only after successful completion of internal examination (all components).
- iii. If a candidate fails to obtain a minimum of 33% marks in **external examination** in any course, he/she shall be eligible to reappear in the external examination of that course in successive year as an ex-student. **However, no reappear facility would be allowed in the internal assessment in any course if a candidate has secured 33 % or more marks in that course.**
- iv. A candidate who obtains a minimum of 33% marks in each of the courses separately in internal and external examinations but fails to obtain the aggregate of 40% marks in each course taken together, may be permitted to reappear in external examinations of the successive year, only **maximum in three courses** in which his/her marks are less than 40%.
- v. A candidate fails to obtain the aggregate of 50% marks in all the courses taken together, may be permitted to reappear in external examination only in **maximum of three courses** in which his/her marks are less than 50%.

a) For Theory and Practical Papers

- i) Each end-term theory paper examination (External assessment) shall be of 50% Marks and candidate must secure at least 33% marks (17 out of 50 marks) for passing the course
- ii) There will be internal assessment of 50% marks and candidate must secure at least 33 % Marks of weightage for passing the course. The internal assessment will further be divided into midterm examination of 20% marks of total marks; Practical examination of 30% marks of total marks

Name of the test	Relative weightage	Minimum Passing marks	Mini. aggregate marks required to pass a course	
Internal Assessment (Mid Term + assignment + Practical)			50% Marks	
Mid-Term Assignment	20% (20 Marks out of 100 marks)	33 %	40% of total marks	
Practical	30% (30 Marks out of 100 marks)	33 %		
External Assessment (End Term Theory)				50% Marks
Theory	50% (50 Marks out of 100 marks)	33 %		

b) Courses with theory only:

- I. There will be an external assessment (**End semester theory paper**), which shall be of 50% marks and candidate must secure at least 33% marks of weightage marks
- II. There will be an internal assessment of 50% marks and candidate must secure at least 33 % marks of weightage.
- III. If, a candidate fails either in external assessment or in internal assessment or in aggregate, he/she will be treated as failed in that course

Name of the test	Relative weightage	Minimum Passing marks	Mini. aggregate marks required to pass a course
Internal Assessment (Mid Term + Assignment) 50% Marks			
Mid-Term Assignment quiz	50 % of total marks (50 Marks out of 100 marks)	33 % of weightage	40% of total marks
External Assessment (End Term Theory) 50% Marks			
Theory	50% (50 Marks out of 100 marks)	33% of weightage	

c) Courses with Practical's only:

- i. End-term assessment of 100% marks will be done by internal and external examiners appointed by the university.

d) For Non- gradial Papers:

There will be an internal assessment by course teacher and candidate must require at least 40% passing marks for satisfactory grade. No grade point will be given in these courses

- e) **Remedial courses for B.Sc. (Ag.):** The evaluation method of these courses will be the same as the main courses.

Group A- Intermediate students of science (Biology) stream- elementary mathematics

Group B- Intermediate students of science (Mathematics) stream- Biology

- f) Elective courses (**EC**); Skill enhancement course (**SEC**) & Value-added course (**VAC**) for B.Sc. (Hons.) Agriculture: The evaluation method of these courses will be the same as main courses.
- g) Practical Examination: Practical Examination will be conducted by internal and External examiners appointed by the university

h) Promotion, Repeat of the examination and Failure criteria

- i. A student shall be eligible for the pass degree of the course only after having cleared all the semester examinations separately.

- ii. A student will be declared as having failed in a year if he/ she fails to obtain less than 50% of the total credit in courses of that year. Such students will be eligible for year back where he/she will have to repeat only those papers which have not been cleared.
- iii. A student shall be allowed to take admission in next year if he/she earns more than 50% credits in courses of that year. In such cases he/she will re-appear next year in the successive semester external examinations only, to pass only those courses, which have not cleared (however he/she shall have to opt the same subjects as opted initially in regular exam papers)
- iv. Every student shall be promoted from odd semester to even semester, provided he/she will submit the university examination fees
- v. If a student have failed to earn required credits during the seventh semester, then an special exam can be conducted by the university in favor to the student, so he/she will complete his/her courses in prescribed duration
- vi. Odd semester back shall be allowed with odd semester examination and even semester back with even semester examination.

i) Division & Grade criteria

A student who passes the entire course with minimum marks prescribed from Semester I to Semester VIII examination would be eligible for the degree. University shall issue a final mark sheet of each semester and his final ranking on the 10-point scale as well as the percentage of marks as follows:

Percentage of Marks Points

Percentage of Marks	Points	Degree
100	10	ALL
90-below 100	9-below 10	
80-below 90	8-below 9	
70-below 80	7-below 8	
60-below 70	6-below 7	
50-below 60 (Barely Pass)	5-below 6	

Note: OGPA should be calculated up to three decimal places only

OGPA	Division
5.000-5.999	Pass with Second Division
6.000-7.499	First Division

j) Advisory Committee

- a) There shall be an Advisory Committee for every student consisting of not fewer than three members in the case of a candidate for Masters' degree, with the Advisor as Chairperson. The Advisory Committee should have representatives from the major and minor fields amongst the members of the post-graduate faculty accredited for appropriate P.G. level.

- b) The Advisor should convene a meeting of the Advisory Committee at least once in a Semester. The summary record should be communicated to the Head of Department, Dean of the College of concerned, and Registrar for information.

11. Educational Eligibility

UNDER GRADUATE PROGRAMMES: B.Sc. (Hons) Agriculture

Eligibility Criteria: Intermediate /10+2 with PCM/PCB/PCMB/ Agriculture (P- Physics, C- Chemistry, M-Mathematics, B-Biology) from a recognized Board/ University

a. Master's Programmes: M.Sc. (Ag.)

Discipline	Eligibility
Agronomy	B.Sc. (Ag.)/ B.Sc.Ag. (Hons.) (10+2+4 years degree)
Plant Pathology	B.Sc. (Ag.)/B.Sc.Ag. (Hons.)/B.Sc.Hort. (10+2+4 years degree)
Genetics & Plant Breeding	B.Sc. (Ag.)/ B.Sc.Ag.(Hons.)/B.Sc.Hort. (10+2+4 years degree)
Horticulture	B.Sc. (Ag.)/ B.Sc.Ag. (Hons.) (10+2+4 years degree)
Animal Husbandry & Dairy Science	B.Sc. (Ag.)/ B.Sc.Ag. (Hons.) (10+2+4 years degree)
Dairy Science	B.Sc. (Ag.)/ B.Sc.Ag. (Hons.) (10+2+4 years degree)
Agriculture Chemistry & Soil Science	B.Sc. (Ag.)/ B.Sc.Ag. (Hons.) (10+2+4 years degree)
Agriculture Economics	B.Sc. (Ag.)/ B.Sc.Ag. (Hons.) (10+2+4 years degree)
Agriculture Extension	B.Sc. (Ag.)/ B.Sc.Ag. (Hons.) (10+2+4 years degree)

12. Multiple Entry & Exit

a) Multiple Entry

The University is at liberty to assess their student intake capacity, and announce the number of seats available for lateral entries at 3rd semester and 5th semester in UG Programme.

- The lateral entry at 3rd semester will be for the candidates having UG-certificate.
- The lateral entry in 5th semester will be for candidates who have completed UG-Diploma

b) Multiple Exit

There will be three exits during the UG programme as per ICAR 6th deans committee

- i. **Exit after 1st year:** The students will have the option to exit after the 1st year. He/ she have to complete 10 weeks of internship (10 credits) after 1st year (2 semesters) to be eligible for award of UG-Certificate
- ii. **Exit after 2nd year:** The student has another option to exit after the 2nd year. The student has to complete 10 weeks of internship (10 credits) after 2nd year (4 semesters) to be eligible for award of UG-Diploma.
- iii. **Exit after 4-years:** programme leading to B.Sc. (Hons.) Agriculture

13. Major& Minor courses in PG Programme

- I. The student will have to complete 20 credits as major courses (compulsory) and 08 credits of minor courses throughout its PG programme
- II. The minor courses should be taken / opted from the list of minor courses offered by another department of the faculty
- III. Each department has to mention the list of minor courses in their respective curriculum
- IV. In the curriculum of each department the first major course of the semester will be offered as minor course for other department.

Internship in PG programme

- I. The total credit of Master's research in PG programme is distributed as 05 credits in each second & third semester, and of 20 credits will be offered in fourth semester. The evaluation of Master's research will be done in the fourth semester against 30 credits (Non-gradual).
- II. The evaluation of Masters research / IDEA will be made at the end of fourth semester as **satisfactory or non-satisfactory**.
- III. The student shall have to choose either Master's research (Dissertation) or IDEA (Internship for Development of Entrepreneurship in Agriculture).
- IV. In IDEA, the student will have to be linked/ attached with the industry; after completing the IDEA, a student has to submit the report followed by viva-voce.
- V. The student opting for Master's research (dissertation work) will have to submit thesis, followed by viva voce.
- VI. The students have to submit 3 copies of IDEA report / Master's Thesis.
- VII. For students opting IDEA the major Advisor will be from Academia and Co-advisor (or Advisory Committee member) from industry
- VIII. The final evaluation (viva-voce exam) of the Master's research (Dissertation) or IDEA will be done by an external examiner appointed by the university.

Course Curriculum of M.Sc. (Ag) Genetics and Plant Breeding
(Based on restructured and revised syllabi of PG Program by ICAR)

1st year (1st Semester)			
Sr. No.	Course Code	Course Title	Cr. Hrs.
1.	GPB 501*	Principles of Genetics	3 (2+1)
2.	GPB 502*	Principles of Plant Breeding	3 (2+1)
3.	GPB 503*	Fundamentals of Quantitative Genetics	3 (2+1)
4.	AST 501	Experimental Designs	3 (2+1)
5.	PGS 501	Basic Concepts in Laboratory Techniques	1 (0+1)
6.	PGS 502	Intellectual Property and its management in Agriculture	1 (1+0)
Total Credits hours			14

1st year (2nd Semester)			
Sr. No.	Course Code	Course Title	Cr. Hrs.
1.	GPB 505*	Principles of Cytogenetics	3 (2+1)
2.	GPB 506*	Molecular Breeding and Bioinformatics	3 (2+1)
3.	AST 502	Data Analysis Using Statistical Packages	3 (2+1)
4.	PGS 503	Agricultural Research, Research Ethics and Rural Development Programmes	1 (1+0)
5.	PGS 504	Library and information services	1 (0+1)
Total Credit hours			11

2nd year (3rd Semester)			
Sr. No.	Course Code	Course Title	Cr. Hrs.
1.	GPB 508*	Mutagenesis and Mutation Breeding	3 (2+1)
2.	GPB 504*	Varietal Development and Maintenance Breeding	2 (0+2)
3.	GPB 509	Hybrid Breeding	3(2+1)
4.	PGS 505	Technical writing and communication skills	1 (0+1)
5.	GPB 591	Masters' seminar	1 (0+1)
Total Credit hours			10

2nd year (4th Semester)			
Sr. No.	Course Code	Course Title	Credit Hrs.
1.	GPB 599	Masters Research	30
Total Credit hours			30
Aggregate credit hrs (all four semesters)			70

Credit requirements

The following nomenclature and Credit Hrs are followed while structuring the syllabus:

A. Course work	Allotted credit hours
1. Major courses	20
2. Minor courses	08
3. Supporting courses	06
4. Common courses	05
5. Seminar	01
B. Thesis research	30
Total	70

Note:

1. The student has to opt Minor courses of minimum 8 credit hours offered by other department
2. The First course of every semester from the respective department is treated as minor for other department

Course Curriculum of M.Sc. (Ag) Plant Pathology
(Based on restructured and revised syllabi of PG Program by ICAR)

1st year (1st Semester)			
Sr. No.	Course Code	Course Title	Cr. Hrs.
1.	PPA 501*	Principles of Plant Pathology	3 (2+1)
2.	PPA502*	Mycology	3 (2+1)
3.	PPA 503*	Plant Pathogenic Prokaryotes	3 (2+1)
4.	AST 501	Experimental Designs	3 (2+1)
5.	PGS 501	Basic Concepts in Laboratory Techniques	1 (0+1)
6.	PGS 502	Intellectual Property and its management in Agriculture	1 (1+0)
Total Credits hours			14

1st year (2nd Semester)			
Sr. No.	Course Code	Course Title	Cr. Hrs.
1.	PPA 504*	Plant Virology	3 (2+1)
2.	PPA 505*	Plant Nematology	3 (2+1)
3.	PPA 506	Biological control of Plant Diseases	2 (1+1)
4.	AST 502	Data Analysis Using Statistical Packages	3 (2+1)
5.	PGS 503	Agricultural Research, Research Ethics and Rural Development Programmes	1 (1+0)
6.	PGS 504	Library and information services	1 (0+1)
Total Credit hours			13

2nd year (3rd Semester)			
Sr. No.	Course Code	Course Title	Cr. Hrs.
1.	PPA 507*	Diseases of Field and Medicinal Crops	3 (2+1)
2.	PPA 508*	Techniques in Detection and Diagnosis of Plant Diseases	2(0+2)
3.	PPA 509	Diseases of Vegetable and Spices Crops	3 (2+1)
4.	PPA 510	Chemicals and Botanicals in Plant Disease Management	3 (2+1)
5.	PGS 505	Technical writing and communication skills	1 (0+1)
6.	PPA 511	Masters' seminar	1 (0+1)
Total Credit hours			13

2nd year (4th Semester)			
Sr. No.	Course Code	Course Title	Credit Hrs.
1.	PPA 512	Masters Research	30
Total Credit hours			30
Aggregate credit hrs (all four semesters)			70

Credit requirements

The following nomenclature and Credit Hrs are followed while structuring the syllabus:

A. Course work	Allotted credit hours
1. Major courses	20
2. Minor courses	08
3. Supporting courses	06
4. Common courses	05
5. Seminar	01
B. Thesis research	30
Total	70

Course Curriculum of M. Sc. (Ag) Agronomy
(Based on restructured and revised syllabi of PG Program by ICAR)

1 st year (1 st Semester)			
Sr. No.	Course Code	Course Title	Cr. Hrs.
1.	AGR 501*	Modern concept in crop production	3 (3+0)
2.	AGR 502*	Principles and practices of weed management	3 (2+1)
3.	AGR 503	Agronomy of oil seed, fibre and sugar crops	3 (2+1)
4.	AST 501	Experimental Designs	3 (2+1)
5.	PGS 501	Basic Concepts in Laboratory Techniques	1 (0+1)
6.	PGS 502	Intellectual Property and its management in Agriculture	1 (1+0)
Total Credits hours			14

1 st year (2 nd Semester)			
Sr. No.	Course Code	Course Title	Cr. Hrs.
1.	AGR 504*	Principles and Practices of soil fertility and Nutrients Management	3 (2+1)
2.	AGR 505	Agronomy of major cereals and pulses	2(2+0)
3.	AGR 506	Agrostology and Agroforestry	3 (3+1)
4.	AST 502	Data analysis using statistical packages	3 (2+1)
5.	PGS 503	Agricultural Research, Research Ethics and Rural Development Programmes	1 (1+0)
6.	PGS 504.	Library and information Services	1 (0+1)
Total Credit hours			13

2 nd year (3 rd Semester)			
Sr. No.	Course Code	Course Title	Cr. Hrs.
1.	AGR 507*	Principles and practices of water management	3 (2+1)
2.	AGR 508	Conservation Agriculture	2 (1 +1)
3.	AGR 509	Agronomy of fodder and forage crops	3 (2+1)
4.	AGR 510	Principles and practices of Organic Farming	3 (2+1)
5.	PGS 505	Technical writing and communication skills	1 (0+1)
6.	AGR 511	Masters' seminar	1 (0+1)
Total Credit hours			13

2 nd year (4 th Semester)			
Sr. No.	Course Code	Course Title	Credit Hrs.
1.	AGR 512	Masters Research	30
Total Credit hours			30