

**FACULTY OF AGRICULTURAL SCIENCES**

**Name of the Course : M.Sc. Ag. (Plant Pathology), w.e.f. 2022-23**

Semester/Year	ICAR CODE	Subject Code (If already exists)	Nomenclature	Theory/ Practical	Core/ AECC/ SEC/ DSE/ GE	Theory and Practical (Result Separately or Combined)	L	T	P	Credits	Theory		Theory internal				Practical internal					Total Max Marks	Overall Pass Marks	Scheme of Examinations (Theory+Internal/ Practical+Internal)			
											Max Marks	Pass Marks	Attendance	Assignment	Mid Term	Max. Marks	Pass Marks	Demonstration/ Presentation	Lab. Work	Attendance	Viva Voce				Max Marks	Pass Marks	
<b>Compulsory Non-Credit Courses</b>																											
I/I	PGS 506	11060106	Disaster Management (E-course)**	Theory	AECC	Separately	1	0	0	0	70	28	5	5	20	30	12						100	60	Theory+Internal		
I/I	PGS 501	11060111	Library and Information Services**	Practical	AECC	Separately	0	0	2	0								35	45	_	20	100	60	100	60	Practical Internal	
<b>Courses of Major subject</b>																											
I/II	PL PATH 501	11060115	Mycology	Theory	Core	Combined	2	0	0	2	40	16	5	5	10	20	8										
I/I	PL PATH 501	11060129	Mycology - Practical	Practical	Core					2	1								15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal
I/I	PL PATH 503	11060116	Plant Bacteriology	Theory	Core	Combined	2	0	0	2	40	16	5	5	10	20	8										
I/I	PL PATH 503	11060130	Plant Bacteriology Practical	Practical	Core					2	1								15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal
I/I	PL PATH 506	11060117	Principles of Plant Disease Management	Theory	DSE	Combined	2	0	0	2	40	16	5	5	10	20	8										
I/I	PL PATH 506	11060131	Principles of Plant Disease Management Practical	Practical	DSE					2	1								15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal
I/I	PL PATH 504	11060118	Principles of Plant Pathology	Theory	Core	Separately	3	0	0	3	70	28	5	5	20	30	12										Theory+Internal
I/I	PL PATH 505	11060119	Detection and Diagnosis of Plant Diseases - Practical	Practical	Core	Separately	0	0	4	2								35	50	_	15	100	60	100	60	Practical Internal	
<b>Compulsory Non-Credit Courses</b>																											
I/II	PGS 502	11060204	Technical Writing and Communications Skills**	Practical	AECC	Separately	0	0	2	0								35	50	_	15	100	60	100	60	Practical Internal	
I/II	PGS 503	11060205	Intellectual Property & its Management in Agriculture (E-course)**	Theory	AECC	Separately	1	0	0	0	70	28	5	5	20	30	12										Theory+Internal
I/II	PGS 504	11060206	Basic Concepts in Laboratory Techniques**	Practical	AECC	Separately	0	0	2	0								35	50	_	15	100	60	100	60	Practical Internal	

<b>Courses of Major subject</b>																											
I/II	PL PATH 502	11060214	Plant Virology	Theory	Core	Combined	2	0	0	2	40	16	5	5	10	20	8	15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal	
I/II	PL PATH 502	11060229	Plant Virology Practical	Practical	Core					2	1								15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal
I/II	PL PATH 518	11060215	Epidemiology and Forecasting of Plant Diseases	Theory	DSE	Combined	2	0	0	2	40	16	5	5	10	20	8										
I/II	PL PATH 518	11060230	Epidemiology and Forecasting of Plant Diseases Practical	Practical	DSE					2	1								15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal
I/II	PL PATH 511	11060219	Chemicals in Plant Disease Management	Theory	DSE	Combined	2	0	0	2	40	16	5	5	10	20	8										
I/II	PL PATH 511	11060234	Chemicals in Plant Disease Management Practical	Practical	DSE					2	1								15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal
<b>Courses of Minor subject</b>																											
I/II	ENT 511	11060216	Major Pests of Crops and their Management	Theory	DSE	Combined	1	0	0	1	40	16	5	5	10	20	8										
I/II	ENT 511	11060231	Major Pests of Crops and their Management Practical	Practical	DSE					0	4	2							15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal
I/II	ENT 507	11060217	Biological Control of Crop Pests and Weeds	Theory	DSE	Combined	1	0	0	1	40	16	5	5	10	20	8										
I/II	ENT 507	11060232	Biological Control of Crop Pests and Weeds Practical	Practical	DSE					2	1								15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal
I/II	ENT 510	11060218	Principles of Integrated Pest Management	Theory	DSE	Combined	1	0	0	1	40	16	5	5	10	20	8										
I/II	ENT 510	11060233	Principles of Integrated Pest Management Practical	Practical	DSE					2	1								15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal
<b>Courses of Supporting subject</b>																											
I/II	STAT 512	11060203	Experimental Designs	Theory	DSE	Combined	2	0	0	2	40	16	5	5	10	20	8										
I/II	STAT 512	11060221	Experimental Designs Practical	Practical	DSE					2	1								15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal
I/II	PP 509	11060220	Physiology of Crop Plants - I	Theory	DSE	Separately	2	0	0	2	70	28	5	5	20	30	12										Theory+Internal

<b>Compulsory Non-Credit Courses</b>																											
III/II	PGS 505	11060306	Agricultural Research, Research Ethics & Rural Development Programmes (E-course)**	Theory	AECC	Separately	1	0	0	0	70	28	5	5	20	30	12										Theory+Internal

<b>Courses of Major subject</b>																											
III/II	PL PATH 515	11060311	Biological Control of Plant Diseases	Theory	DSE	Combined	2	0	0	2	40	16	5	5	10	20	8										
III/II	PL PATH 515	11060323	Biological Control of Plant Diseases Practical	Practical	DSE					2	1								15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal
III/II	PL PATH 510	11060312	Seed Health Technology	Theory	DSE	Combined	2	0	0	2	40	16	5	5	10	20	8										
III/II	PL PATH 510	11060324	Seed Health Technology Practical	Practical	DSE					2	1								15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal
III/II	PL PATH 517	11060314	Mushroom Production Technology	Theory	DSE	Combined	2	0	0	2	40	16	5	5	10	20	8										
III/II	PL PATH 517	11060326	Mushroom Production Technology Practical	Practical	DSE					2	1								15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal

<b>Courses of Minor subject</b>																											
III/II	ENT 519	11060313	Commercial Entomology	Theory	DSE	Combined	1	0	0	1	40	16	5	5	10	20	8										
III/II	ENT 519	11060325	Commercial Entomology Practical	Practical	DSE					2	1								15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal
III/II	NEMA 506	11060315	Nematode Diseases of Crops	Theory	DSE	Combined	2	0	0	2	40	16	5	5	10	20	8										
III/II	NEMA 506	11060327	Nematode Diseases of Crops Practical	Practical	DSE					2	1								15	20	_	5	40	16	100	60	Theory+Internal+Practical Internal

<b>Courses of Supporting subject</b>																								
III/II	PP 506	11060316	Physiology of Crop Plants - II	Theory	DSE	Seperately	2	0	0	2	70	28	5	5	20	30	12				100	60	Theory+Internal	
<b>Courses of Major subject</b>																								
<b>Master's Seminar</b>																								
IV/II	PL PATH 591	11060404	Master's Seminar	Theory	Core	Seperately	1	0	0	1	100	60										100	60	Theory Internal
<b>Master's Research/Thesis</b>																								
IV/II	PL PATH 599	11060405	Master's Research***	Practical	Core	Seperately	0	0		20														

\*\*Compulsory non-gradual course (indicate pass as 'P'  $\geq$  60% marks and fail as 'F' < 60% marks)

\*\*\*Minimum 20 credit hours for degree course (indicate pass as satisfactory, "S" and fail as unsatisfactory, "US")

**Note:**

1. A student has to take a minimum of 20 credits of Major subject, 9 credits of Minor subject, 5 credits of Supporting subject, 1 credit of seminar and 20 credits of research with a minimum total of 55 credits in the degree program.
2. Thesis submission and viva-voce is compulsory for all students to secure satisfactory performance.
3. Courses of odd semesters can be taken in either I or III semester and vice versa. Similarly, courses of even semesters can be taken in either II or IV semester and vice versa.