



JOY UNIVERSITY
semper paratus

School of Agricultural Sciences

**M.Sc. (Hort.) Post Harvest Technology
I Semester**

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs /Wk	Credits
1	MSHP 7610	Principles of post-harvest technology	2	0	1	5	3
2	MSHP 7611	Harvesting, handling and marketing of fruit and vegetables	2	0	1	5	3
3	MSHP 7612	Principles and methods of processing	2	0	1	5	2
4	MSHP 7613	Statistical Methods and Design of Experiments	2	0	1	5	3
5	MSHP 7614	Computer Application for Agricultural Research	1	0	1	4	2
6	MSHP 3615	Research	0	0	1	3	1
7	MSHP 4616	Agricultural Research Ethics and Methodology	0	0	1	3	1
8	MSHP 4617	Technical Writing and Communication Skill	0	0	1	3	1
		TOTAL	9	0	8	33	17

II Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	MSHP 7620	Post harvesting technology of fruit and vegetables crop-I	2	0	1	5	3
2	MSHP 7621	Fundamentals of processing of vegetables	2	0	1	5	3
3	MSHP 7622	Post harvest physiology and biochemistry of fruit and vegetables	1	0	1	4	2
4	MSHP 7623	Value addition in flowers	2	0	1	5	3
5	MSHP 7624	Concepts in crop physiology	2	0	1	5	3
6	MSHP 3625	Research	0	0	2	6	2
7	MSHP 4626	Basic Concepts in Laboratory Techniques (O+1)	0	0	1	3	1
8	MSHP 4627	Library and Information Services (O+1)	0	0	1	3	1
		TOTAL	9	0	9	36	18

III Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	MSHP 763#	Minor Course - Related discipline	2	0	1	5	3
2	MSHP 763#	Minor Course - Related discipline	2	0	1	5	3
3	MSHP 3632	Research	0	0	8	24	8
4	MSHP 6633	Seminar	0	0	1	3	1
5	MSHP 4634	Intellectual property and its management in agriculture	1	0	0	1	1
6	MSHP 4635	Disaster management	1	0	0	1	1
7	MSHP 4636	Constitution of India	1	0	0	1	1
		TOTAL	7	0	11	40	18

Minor course

IV Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1	MSHP 3640	Research	0	0	9	27	9
2	MSHP 1641	Value Added Course	3	0	0	3	3
		TOTAL	3	0	9	30	12

VAC*- Value added course (as per approval in the Board of Studies)

SEMESTER WISE CREDIT LOAD

S. No.	SEMESTER	L	T	P	C
1.	SEMESTER I	9	0	8	17
2.	SEMESTER II	9	0	9	18
3.	SEMESTER III	7	0	11	18
4.	SEMESTER IV	3	0	9	12
	TOTAL	28	0	37	65

**Total credits with Non-Credit courses (7 credits) as recommended by ICAR
= 58+7 =65**

DISTRIBUTION OF COURSES

MAJOR – 21 CREDITS							
S. No.	Course Code	Courses	L	T	P	Contact Hrs / Wk	Credits
1.	MSHP 7610	Breeding of vegetable crops	2	0	1	5	3
2.	MSHP 7611	Production technology of warm season vegetable crops	2	0	1	5	3
3.	MSHP 7612	Systematics of vegetable crops	2	0	1	5	2
4.	MSHP 7620	Protected and precision horticulture	2	0	1	5	3
5.	MSHP 7621	Production technology of cool season vegetable crops	2	0	1	5	3
6.	MSHP 7622	Organic vegetable production	2	0	1	5	3
7.	MSHP 7623	Principles and processing of vegetable crops	2	0	1	5	3
Total			14	0	7	35	21
MINOR – 9 CREDITS							
1.	MSHP 7624	Concepts in crop physiology	2	0	1	5	3
2.	MSHP 763#	Minor Course - Related discipline	2	0	1	5	3
3.	MSHP 763#	Minor Course - Related discipline	2	0	1	5	3
Total			6	0	3	15	9
SUPPORTING COURSES - 5 CREDITS							
1.	MSHP 7613	Statistical Methods and Design of Experiments	2	0	1	5	3
2.	MSHP 7614	Computer Application for Agricultural Research	1	0	1	4	2
Total			3	0	2	9	5
SEMINAR AND RESEARCH- 21 CREDITS							
1.	MSHP 6633	Seminar	0	0	1	3	1
2.	MSHP 3615	Research	0	0	1	3	1
3.	MSHP 3625	Research	0	0	2	6	2
4.	MSHP 3632	Research	0	0	8	24	8
5.	MSHP 3640	Research	0	0	9	27	9
Total			0	0	21	63	21
Grand Total			22	0	33	120	55

NON-CREDIT COMPULSORY COURSE

S. No.	Course Code	Courses	L	T	P	Contact Hrs / Wk	Credits
1.	MSHP 4616	Agriculture research ethics and methodology	0	0	1	3	1
2.	MSHP 4617	Technical writing and communication skills	0	0	1	3	1
3.	MSHP 4626	Basic concepts in laboratory techniques	0	0	1	3	1
4.	MSHP 4627	Library and information services	0	0	1	3	1
5.	MSHP 4634	Intellectual property and its management in agriculture	1	0	0	1	1
6.	MSHP 4635	Disaster management	1	0	0	1	1
7.	MSHP 4636	Constitution of India	1	0	0	1	1

MINOR COURSES

S. No.	Course Code	Courses	L	T	P	Contact Hrs / Wk	Credits
1.	MSHP 763A	Organic farming and precision agriculture	2	0	1	5	3
2.	MSHP 763B	Dry farming and water shed management	2	0	1	5	3
3.	MSHP 763C	Productive insects and weed killers	2	0	1	5	3
4.	MSHP 763D	Pest management in organic farming	2	0	1	5	3
5.	MSHP 763E	Biological control of crop diseases	2	0	1	5	3
6.	MSHP 763F	Mushroom technology	2	0	1	5	3
7.	MSHP 763G	Microbial inoculant production technology	2	0	1	5	3
8.	MSHP 763H	Industrial microbiology	2	0	1	5	3
9.	MSHP 763I	Soil, Water and air pollution	2	0	1	5	3
10.	MSHP 763J	Soil health management	2	0	1	5	3
11.	MSHP 763K	Concepts of crop physiology	2	0	1	5	3
12.	MSHP 763L	Bio-instrumentation	2	0	1	5	3
13.	MSHP 763M	Plant tissue culture	2	0	1	5	3
14.	MSHP 763N	Germplasm collection, exchange and quarantine	2	0	1	5	3

15.	MSHP 763O	Fundamentals of genetics	2	0	1	5	3
16.	MSHP 763P	Seed production techniques in crops	2	0	1	5	3
17.	MSHP 763Q	Seed quality testing and certification	2	0	1	5	3
18.	MSHP 763R	Propagation and nursery management of horticultural crops	2	0	1	5	3
19.	MSHP 763S	Genetic resources and conservation of fruit crops	2	0	1	5	3
20.	MSHP 763T	Hi - tech vegetable production	2	0	1	5	3
21.	MSHP 763U	Ornamental horticulture	2	0	1	5	3
22.	MSHP 763V	Genetic resources and conservation of medicinal and aromatic plants	2	0	1	5	3
23.	MSHP 763W	Natural resource and environmental economics	2	0	1	5	3
24.	MSHP 763X	Agribusiness analysis	2	0	1	5	3
25.	MSHP 763Y	Agricultural insurance and risk management	2	0	1	5	3
26.	MSHP 763Z	Farm journalism	2	0	1	5	3
27.	MSHP 7631	Introduction to visual communication and advertising technologies	2	0	1	5	3