

DEPARTMENT OF PLANT PHYSIOLOGY
COLLEGE OF AGRICULTURE, JNKVV, JABALPUR

Minimum credit requirements for different degree programme

Subject	Degree programme			
	Master		Doctorate	
	BSMA Recommended Credit	Offered Credit	BSMA Recommended Credit	Offered Credit
Major	20	20	12	12
Minor	08	09	06	06
Supporting	06	07	05	06
Compulsory Non-Credit	05	05	00	00
Seminar	01	01	02	02
Thesis research	30	30	75	75
Total	70	72	100	101

Courses offered in Master Degree programme

Group	SNo.	Code Number	Title of Course	Credit
Major courses (20 credit)				
I st Semester	1.	PP 501*	Principles of Plant Physiology-I: Plant Water Relations and Mineral Nutrition	(2+1)
	2.	PP 502*	Principles of Plant Physiology-II: Metabolic Processes and Growth Regulation	(2+1)
	3.	PP 503*	Plant Developmental Biology: Physiological and Molecular Basis	(2+1)
II nd Semester	4.	PP 504	Physiological and Molecular Response of Plants to Abiotic Stress	(2+1)
	5.	PP 505	Hormonal Regulation of Plant Growth and Development	(2+1)
	6.	PP 508	Physiology of Field Crops	(2+0)
	7.	PP 510*	Seed Physiology	(2+1)
	Total			20 (14+6)
Minor courses (08 credit)				
I st Semester	1.	Agron 512	Dryland Farming and Watershed Management	(2+1)
II nd Semester	2.	Agron 513	Principles and Practices of Organic Farming	(2+1)
	3.	SOILS 509	Soil, Water and Air Pollution	(2+1)
	Total			9 (6+3)

Supporting courses (06 credit)				
I st Semester	1.	STAT 502	Statistical Methods for Applied Sciences	(3+1)
II nd Semester	2.	STAT 511	Experimental Designs	(2+1)
	Total			7(5+2)
Seminar	1	PP 591	Master's Seminar	(1+0)
Thesis	1	PP 599	Master's Research	30
Total credit				67 (25+42)
Compulsory Course (05 credit)				
I st Semester	1.	PGS 501	Library and Information Services	0+1
	2.	PGS 503	Intellectual Property and its Management in Agriculture	1+0
	3.	PGS 504	Basic Concepts in Laboratory Techniques	0+1
II nd Semester	4	PGS 502	Technical Writing and Communications Skills	0+1
	5	PGS 505	Agri Res. Ethics and Rural Dev. Programs	1+0
	Total			5
	Grand Total			72

Courses offered in Ph.D. programme

Group	SNo.	Code Number	Title of Course	Credit
Major courses (12 credit)				
I st Semester	1	PP 601	Functional Genomics and Genes Associated with a few Physiological Processes	(2+0)
	2	PP 602*	Signal Perceptions and Transduction and Regulation of Physiological Processes	(2+0)
	3	PP 603	Molecular Approaches for Improving Physiological Mechanisms through Traits Introgression	(2+1)
II nd Semester	4	PP 606	Global Climate Change and Crop Response	(2+0)
	5	PP 607*	Physiological and Molecular aspects of Source Sink capacity for enhancing Yield	(3+0)
	Total			12 (11+1)
Minor courses (06 credit)				
I st Semester	1	Agron- 603	Irrigation Management	(2+1)
II nd Semester	2	Agron- 602	Recent trends in Crop Growth and Productivity	(2+1)
	Total			6 (4+2)
Supporting courses (05 credit)				
I st Semester	1	STAT 521	Applied Regression Analysis	3 (2+1)
II nd Semester	2	STAT 522	Data Analysis Using Statistical Packages	3 (2+1)
	Total			6 (4+2)
Seminar		PP 691	Doctoral Seminar – I	1 (1+0)
		PP 692	Doctoral Seminar – II	1 (1+0)
	Total			2 (2+0)
Thesis	1	PP 699	Doctoral Research	75
	Total credit			101(96+5)