

TEACHING

- **TEACHING** (Polytechnic / UG / PG / Ph.D. Courses)

Diploma in Agriculture		
Course No.	Credit	Course Title
Pl. Phy. 2.1.	2 + 1	Fundamentals of Crop Physiology
B. Sc. (Hons.) Agriculture		
Course No.	Credit	Course Title
Pl.Physiol.3.1	(2+1)	Crop Physiology- I
Pl.Physiol.4.2	(2+1)	Crop Physiology- II
Pl.Phy3.1	(2+1)	Fundamentals of Crop Physiology
B. Sc. (Hons.) Horticulture		
BSC 1.2	(1+1)	Introductory Crop Physiology
BSC 2.2	(1+1)	Growth & Development of Horticulture Crops
BSC 2.4	(1+1)	Introductory Crop Physiology
BSC 3.7	(1+1)	Growth & Development of Horticulture Crops
Master's and Doctorate		
PP 501	(3+1)	Principles of Plant Physiology
PP 502	(2+0)	Plant Development Biology – Physiological and Molecular basis
PP 503	(2+1)	Physiological and Molecular responses of plants to Abiotic stresses
PP 504	(2+1)	Hormonal regulation of plant growth and development
PP 506	(1+1)	Physiology of growth and yield and yield modeling
PP 508	(2+1)	Morphogenesis, tissue culture and transformation
PP 509	(2+0)	Physiology of crop plants – specific case studies
PP 510	(2+1)	Physiological and molecular aspects of photosynthesis, carbon and nitrogen assimilation
PP 511	(2+1)	Mineral nutrition
PP 512	(2+1)	Plant cell metabolism
PP 601	(2+0)	Functional genomics and genes associated with a few physiological processes
PP 602	(2+0)	Signal perceptions and transduction and regulation of physiological processes
PP 603	(2+1)	Molecular approaches for improving physiological traits
PP 604	(1+2)	Techniques in Plant Physiology
PP 605	(2+0)	Climate change and crop growth
PP 606	(2+0)	Post harvest physiology
PP 607	(1+1)	Weed physiology and Herbicide action
PP 608	(2+1)	Seed Physiology
SST509	(1+1)	Seed Physiology
SST513	(1+1)	Seed storage and Deterioration

As per ICAR BSMA Restructured and Revised Syllabi of PG programmes-2022 from Odd semester of 2022-23 onwards.

PP 501	(2+1)	Principles of Plant Physiology–I :Plant water relations and Mineral nutrition
PP 502	(2+1)	Principles of Plant Physiology–II: Metabolic process and growth regulation
PP 503	(2+1)	Plant Development Biology : Physiological and Molecular basis
PP 504		Physiological and Molecular responses of plants to abiotic stresses
PP 505	(2+1)	Hormonal regulation of plant growth and development
PP 506	(2+1)	Physiological and molecular mechanisms of mineral nutrient acquisition and their functions.
PP 507	(2+1)	Physiological and molecular mechanisms of mineral nutrient acquisition and their functions.
PP 508	(2+0)	Physiology of field crops
PP 509	(2+0)	Physiology of horticultural crops
PP 510	(2+1)	Seed Physiology
PP 511	(2+0)	Phenotyping physiological Processes
PP 512	(2+0)	Crop growth regulation and management
PP 601	(2+0)	Functional genomics and genes associated with a few physiological processes
PP 602	(2+0)	Signal perceptions and transduction and regulation of physiological processes
PP 603	(2+1)	Molecular approaches for improving physiological mechanisms through traits introgression
PP 604	(2+0)	Plant phenomics-next generation phenomics platforms
PP 605	(0+2)	Experimental techniques to characterize plant processes for crop improvement
PP 606	(2+0)	Global climate change and crop response
PP 607	(3+0)	Physiological and molecular aspects of source-sink capacity for enhancing yield
PP 608	(2+0)	Seed and fruit growth and their quality improvement
PP 609	(2+0)	Plant –microbe interactions
PP 610	(2+0)	Weed biology and physiology of herbicide action
SST 502	(1+1)	Seed Dormancy and Germination
SST 603	(1+1)	Physiology and Biochemistry of seeds