

1. TEACHING ACTIVITIES

A. Undergraduate level

As per 6th Dean Committee

Sr. No.	Course No.	Course title	Credit
1	Cr. Phy 5.1	Fundamentals of Crop Physiology	2+1
2	-	Micro-propagation Technologies	3+1

As per 5th Dean Committee

Sr. No.	Course No.	Course title	Credit
1	Pl. Phy 3.1	Fundamentals of Crop Physiology	2+1
2	Envs. 5.1	Environmental Studies and Disaster Management	2+1
3	ELP 8.2	Plant Tissue Culture Technology	0+10

B. Master's level (As per BSMA)

Sr. No.	Course No.	Course title	Credit
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
4	PP 504	Physiological and Molecular Responses of Plants To Abiotic Stresses	2+1
5	PP 505	Hormonal Regulation Of Plant Growth and Development	2+1
6	PP 506	Physiological and Molecular Mechanisms of Mineral Nutrient Acquisition and Their Functions	2+1
7	PP 507	Photosynthetic Processes, Crop Growth and Productivity and Concepts of Crop Modelling	2+1
8	PP 508	Physiology of Field Crops	2+0
9	PP 509	Physiology of Horticulture Crops	2+0
10	PP 510*	Seed Physiology	2+1

Sr. No.	Course No.	Course title	Credit
11	PP 511	Phenotyping Physiological Processes	2+0
12	PP 512	Crop Growth Regulation and Management	2+0
13	PP 591	Master's Seminar	1+0
14	PP 599	Master's Research	30

*Core courses

C. Doctoral level (As per BSMA)

Sr. No.	Course No.	Course title	Credit
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 Trait Introgression	2+1
4	PP 604	Plant Phenomics – Next Generation Phenomics Platforms	2+0
5	PP 605	Experimental Techniques To Characterize Plant Processes For Crop Improvement	0+2
6	PP 606	Global Climate Change and Crop Response	2+0
7	PP 607*	Physiological and Molecular Aspects of Source-Sink Capacity For Enhancing Yield	3+0
8	PP 608	Seed and Fruit Growth and Their Quality Improvement	2+0
9	PP 609	Plant-Microbe Interactions	2+1
10	PP 610	Weed Biology and Physiology of Herbicide Action	2+0
11	PP 691	Doctoral Seminar I	1+0
12	PP 692	Doctoral Seminar II	1+0
13	PP 699	Doctoral Research	75

*Core courses

2. RESEARCH ACTIVITIES

A. Current Research Projects

Sr. No.	Title of Project	Principle Investigator	Co-PI	Budget Head
Plan (02)				
1	Establishment of Department of Plant Physiology, Tissue Culture and Biotechnology of Agriculture College at Navsari	Dr. Ajay V Narwade	-	12135
2	Establishment of Department of Plant Molecular Biology and Biotechnology	Dr. Ajay V Narwade	-	12115

3. EXTENSION ACTIVITIES

- Need based plant tissue culture training and demonstration to the college students, RA, SRF and students of secondary and higher secondary schools.
- Staff is actively participating in *Krishi Mahotsav* and RAWE programme.