ACTIVITIES

Department of Plant Physiology
N. M. College of Agriculture
Navsari Agricultural University, Navsari (Gujarat)

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
3	-	Experiential Learning: Plant Tissue Culture Technology	10 + 10

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

Sr. No.	Course No.	Course title	Credit
9	PP 509	Physiology of Horticulture Crops	2+0
10	PP 510*	Seed Physiology	2+1
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.