

1. TEACHING ACTIVITIES

A. Undergraduate level

(As per 5th Deans' committee recommendations)

Sr. No.	Course No.	Course title	Credits
1.	GPB 1.1	Introductory Biology	1+1
2.	GPB 2.2	Fundamentals of Genetics	2+1
3.	GPB 3.3	Fundamentals of Plant Breeding	2+1
4.	GPB 4.4	Fundamentals of Seed Technology	2+1
5.	GPB 4.5	Intellectual Property Rights	1+0
6.	GPB 5.6	Crop Improvement-I (<i>Kharif</i>)	1+1
7.	Biotech 5.1	Introductory Biotechnology	1+1
8.	GPB 6.7	Crop Improvement-II (<i>Rabi</i>)	1+1
9.	RAWE	Rural Agriculture Work Experience	0+1

(As per 6th Deans' committee recommendations)

Sr. No.	Course No.	Course title	Credits
1.	SEC-3	Seed Production and Testing Technology	0+2
2.	GPB 3.1	Principles of Genetics	2+1
3.	GPB 4.2	Basics of Plant Breeding	2+1
4.	GPB 5.3	Crop Improvement-I (<i>Kharif</i> crops)	1+1
5.	GPB 6.4	Crop Improvement-II (<i>Rabi</i> crops)	1+1
6.	GPB 6.5	Fundamentals of Seed Science & Technology	1+1
7.	EC-6	Commercial Plant Breeding	3+1
9.	RAWE	Rural Agriculture Work Experience	0+1

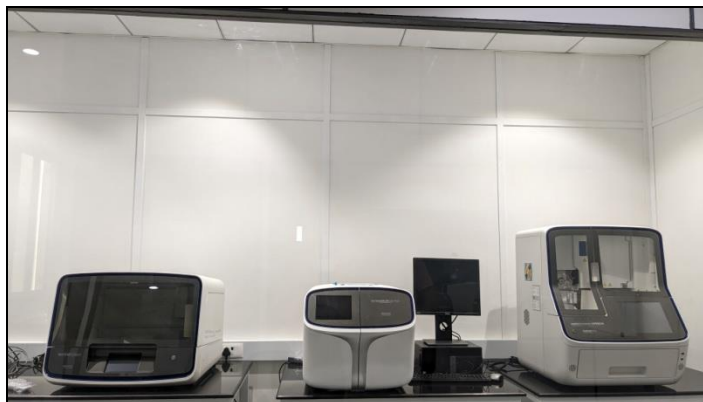
B. Master's level (Courses offered)

Sr. No.	Course No.	Course title	Credits
1.	GPB 501	Principles of Genetics	2 + 1
2.	GPB 502	Principles of Plant Breeding	2 + 1
3.	GPB 503	Fundamentals of Quantitative Genetics	2 + 1
4.	GPB 504	Varietal Development and Maintenance Breeding	1 + 1
5.	GPB 505	Principles of Cytogenetics	2 + 1
6.	GPB 506	Molecular Breeding and Bioinformatics	2 + 1
7.	GPB 516	Breeding for Stress Resistance and Climate Change	2 + 1
8.	GPB 591	Seminar	1 + 0
9.	GPB 599	Thesis/Research	0 + 30

C. Doctoral level (Courses offered)

Sr. No.	Course No.	Course title	Credits
1.	GPB 601	Advances in Plant Breeding Systems	3 + 0
2.	GPB 602	Advances in Biometrical Genetics	2 + 1
3.	GPB 604	Plant Genetic Resources, Conservation and Utilization	2 + 0
4.	GPB 605	Genomics in Plant Breeding	3 + 0
5.	GPB 608	Breeding designer crops	1 + 1
6.	GPB 609	IPR and Regulatory Mechanism (e-course)	1 + 0
7.	GPB 691	Seminar I	1 + 0
8.	GPB 699	Thesis/Research	0 + 75

D. Teaching /PG research facilities



OMICS Laboratory



Speed Breeding Laboratory



Molecular Breeding Laboratory



Research/Instructional Farm

E. Teaching aids

1.	Library
2.	Botanical garden

2. RESEARCH ACTIVITIES

A. Current Research Projects

Sr. No.	Title of Project	Budget Head	Year of starting	Mandates of Project
PLAN Scheme				
1.	Genetic improvement and physiological evaluation of Ginger, Turmeric and Sesbania and Crotalaria for Green Manuring	12933	2002	- Collection of the germplasm of turmeric, Mango ginger, ginger and sesbania. - Evaluation and screening of the germplasm of turmeric, ginger and sesbania. - Development of variety with high yielding and improved quality potential in turmeric, ginger and sesbania.
2.	Establishment of Department of Plant Physiology, Tissue culture and Bio-technology at Agriculture College, Navsari	12135A	2002	- To establish facilities related to plant physiology, tissue culture and bio-technology to each agriculture college and there by create infra-structural facilities for teaching and research. - To impart training to students / staff for operating modern instruments. - To train the students in the basic techniques of tissue culture, plant Physiology and bio-technology
3.	Strengthening of High-Tech OMics Experimentation (HOME) Facility at Department of Genetics and Plant Breeding, NAU, Navsari	12077	2023	- Development of molecular marker maps utilizing mapping populations. - Identification of marker trait associations using molecular breeding approaches. - Introgression of identified traits based on cutting edge technologies. - To support post graduate research and to create human resource well
ICAR Scheme				
1.	AICRP (Spices) Volunteer center	2045	2010	- To conduct Spices crops related trials allotted by AICRP (Spices). - To conduct trials related to Agronomic production allotted by AICRP (Spices). - Results analysis is done and presented in AGRESCO and Workshop. - Germplasm collection and maintenance

3. EXTENSION ACTIVITIES

➤ **Departmental staffs are actively engaged in following extension activities**

- Krushi Mela
- Krushi Mohatsav
- Khedut shibir
- Seminar
- Workshop
- Symposium
- Conference
- TV/Radio talk
- Visiting farmer's field
- Farmer's training programme
- Farmer's seminar
- FLDs
- Magazine, Booklets, Leaflets, Folders, News papers etc...

4. CO-CURRICULAR ACTIVITIES

Sr. No.	Name of Activities
1.	National Cadet Corps (Army Wing)
2.	Cultural and Sports Activities