



Department of Basic Sciences
ASPEE College of Horticulture
Navsari Agricultural University,
Navsari – 396 450 (Gujarat)



ACTIVITIES AND ACHIEVEMENTS of DEPARTMENT

ACADEMIC ACTIVITIES:

List of Courses offered by the Department for Under Graduate Programme (As per 5th Dean's Committee)

B. Sc. (Hons.) Horticulture					
S. N.	Sem.	Course No.	Title of Course	Credit hrs	Faculty
1	Third	VAC – II	Agricultural Informatics and Artificial Intelligence	3 (2+1)	Er. S.G. Patel
2	Fifth	BSC 5.1	Fundamentals of Plant Breeding	3(2+1)	Dr. Rehana Niyaria
3	Fifth	BSC 5.2	Introductory Crop Physiology	2(1+1)	Dr. Ajay Narwade
4					
5	Fifth	SSC 5.1	Information and Communication Technology in Horticulture	3(1+2)	Er. S.G. Patel
6	Fifth	BSC 5.3	Principles of Biochemistry	3(2+1)	Dr. Chintan Kapadia
7	Fifth	SSC 5.2:	Basic Statistics and Experimental Designs	3(2+1)	Dr. A.P. Chaudhary
8	Sixth	BSC 6.4	Laboratory Techniques for Horticultural Crops	2(0+2)	-
9	Sixth	BSC 6.5	Growth and Development of Horticultural Crops	3(2+1)	-

RESEARCH ACTIVITIES.

Research Schemes in Operation

Sr. No.	Title of Research Project	Budget Head	PI	Funding Agency
1	Research in tissue culture	12014-05	HoD	GoG

1. Research in tissue culture (BH: 12014-05)

Objectives:

1. Standardization of methods for establishment of tissue culture plants of horticultural crops of south Gujarat region
2. To provide training in the field of tissue culture to develop high tech human resources.

Research Recommendations:

Number of Recommendations / Messages				
A.	Farmer recommendation	:	04	
B.	Scientific recommendation	:	15	
C.	For Policy makers/ extension personnel	:	02	
D.	Patents	:	00	

Production of planting material

Tissue cultured Banana Plantlets (GRAND NAINA)

Year	Banana Plantlets
2019-20	39028
2020-21	40345
2021-22	41816
2022-23	45888
2023-24	50021



Field performance of Banana Plantlets raised at Farmer's field-Chikhli

EXTENSION SERVICES

- ❖ Participation of faculty in *Krusha Mahotsava* Programme of GoG
- ❖ Diagnostic visits at farmers' fields.
- ❖ Dissemination of technology through publications.
- ❖ Dissemination of technical know-how of the molecular and plant tissue culture techniques to the visiting students of other colleges, schools and visiting personnel.

Infrastructure Available

1. Computer laboratory
2. Post Graduate Research Laboratory
3. Under Graduate Practical Laboratory
4. Plant Tissue Culture Laboratory
5. Glass house, poly house and net house
6. Analytical instruments



COMPUTER LABORATORY



UG PRACTICAL LABORATORY



PG RESEARCH LABORATORY



PLANT TISSUE CULTURE LABORATORY



HARDENING FACILITIES



TRINOCULAR MICROSCOPE



COMPOUND MICROSCOPE



CENTRIFUGES



**ELIX WATER PURIFICATION
SYSTEM**



MICROWAVE OVEN



HOT AIR OVEN



GEL ELECTROPHORESIS UNIT



LAMINAR AIR FLOW