

# ANNUAL REPORT

## 2021-22



**ASPEE College of Horticulture and Forestry**  
**Navsari Agricultural University**  
**Navsari (Gujarat) 396 450, India**  
**[www.nau.in](http://www.nau.in)**



# Annual Report 2021-22

**ASPEE College of Horticulture and Forestry  
Navsari Agricultural University  
Navsari (Gujarat) 396 450, INDIA  
[www.nau.in](http://www.nau.in)**

## Annual Report 2021-22

Month and Year of Publication : February 2023

Patron : **Dr. Alka Singh**  
Principal & Dean  
ASPEE College of Horticulture and Forestry,  
Navsari Agricultural University, Navsari

### Editorial Board

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Professor & Head  
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Navsari Agricultural University, Navsari

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Asso. Professor (Plant Protection)  
: **Dr. D. J. Chaudhari**  
Asstt. Professor (Agril. Economics)

Publisher : Principal & Dean  
ASPEE College of Horticulture and Forestry  
Navsari Agricultural University, Navsari

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**Dr. ALKA SINGH**  
**PRINCIPAL & DEAN**



**ASPEE COLLEGE OF HORTICULTURE AND FORESTRY**  
**NAVSARI AGRICULTURAL UNIVERSITY**  
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## FOREWORD

I am pleased to present the college report 2021-22. As I turn up the pages, I feel amazed to go through the accomplishments we have made in the recent past one year. It reminds me of beautiful quote by *Confucius*, “*Education breeds confidence. Confidence breeds hope. Hope breeds peace.*” Holistic approach in an education system leads to confidence, hope and ultimately peace and that is so clearly visible in this report.

It is a reflection of achievements and accomplishments and the hard work and dedication of all the faculties and staff who have been directly and indirectly building the college image and transforming lives of students. Their drive and achievements energize the college as we continue to strive with focus on the priority areas of our college: students’ quality life and learning, research and innovation and safe, healthy and positive work culture.

The report of 2021-22 is a well-documented information from all the eight departments of our college viz., Fruit Science, Vegetable science, Floriculture and Landscape Architecture, Plant Protection, Natural Resource Management, Basic and Social Sciences. The report gives a pen picture of the events, activities, seminars/workshops, organized in the college, important committees framed for the smooth functioning, infrastructure created, noteworthy achievements, visits, *etc.*, which in a way are documented and authenticated in this report

I appreciate the efforts of Late Dr. Sanjeev Kumar, Assistant Professor (Veg. Sci.) and Dr. D. J. Chaudhari, Assistant Professor (Social Science) under the guidance of Dr. O. P. Sharma, Professor & Head, Department of Social Science, ASHF, NAU, Navsari for collection of all information and publishing the report in the stipulated time. Contribution of all the department heads and all the faculties in thriving this college with noteworthy activities and sending the information for compilation is highly appreciated. Together, we are building a future that is open, connected, and purposeful.





**Dr. Z. P. PATEL**  
**VICE CHANCELLOR**



NAVSARI AGRICULTURAL UNIVERSITY

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## **MESSAGE**

ASPEE College of Horticulture & Forestry is a premier educational institution of the Navsari Agricultural University with the exemplary mission to nurture students who are equipped to achieve success in a rapidly changing, deeply inter-connected world. Located at the cutting edge of knowledge, ACHF has not just kept pace with the changing world but has been the pioneering spirit behind many innovations in the field of Education, Research and Extension regarding pioneering aspects of Horticulture. The College is committed to providing advanced educational programming that is responsive to present scenario and exceptional experiences that empower career-ready graduates so that they will be able to rise to the challenges of a rapidly changing world, and will find the opportunity therein with the dedicated support of our skilled faculty and staff. It is a matter of immense pleasure that the Education World, Mumbai has ranked the ASPEE College of Horticulture and Forestry, Navsari Agricultural University, Navsari at the 1<sup>st</sup> rank in Gujarat state and 5<sup>th</sup> rank at all India level for quality campus life during the year 2021.

I am exceptionally pleased to know that ASPEE College of Horticulture and Forestry is publishing the Annual Report 2021-22, which chronicles the vast spectrum of its academic, research, and extension activities. It also displays the accomplishments of the college in various spheres and thus showcases the hard work put forth by the institution, faculty, and students for attaining new academic heights. The Report portrays the wide spectrum of various academic and co-curricular activities at the college. The editorial team has candidly tried to capture the vibrant academic environment that exists in the college highlighting the research projects, research publications, participation in national and international seminars and workshops, special achievements including awards and honors. I am confident that the college will witness unprecedented growth and progress in the years to come. I would like to thank the entire college community for their support and cooperation in the journey towards achieving the goal set last year.

I would like to conclude by saying that ACHF will strive to remain an enlightened place of learning, where we continue to push boundaries of knowledge, nurture critical enquiry, foster democratic partnerships and build an empowered community. I praise the hard work made by the editorial board, the Principal & Dean, ASPEE College of Horticulture and his team for this accomplishment and wish a glorious future.

**Navsari**  
**October 04, 2022**

**( Z. P. Patel )**



**Dr. P.K. SHRIVASTAVA**  
**PRINCIPAL & DEAN**



**COLLEGE OF FORESTRY**  
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## MESSAGE

I am delighted to look back upon the documentation of activities done during the year 2021–22 in the Annual Report brought out by the Publication Cell of ASPEE College of Horticulture and Forestry under the leadership of Dr. O. P. Sharma. The report shows the gradual awakening of the college, after almost two years of gloom and dullness due to the pandemic. The reporting of student activities from academic excellence to sports and co-curricular activities is well documented by the team members of the cell, indeed with the support from staff of the college, who have sincerely updated the activities. It was good to recollect the participation of students and staff in Fit India, run, Blood donation, Dandi Marathon, Yoga Day celebrations, Medial camps and planation done by the students and faculties. It was delighting to note that College faculties were invited as a resource person in 60 events outside the University and 5 radio / TV talks were broadcasted by national channels. Publication cell has rightfully documented that teacher wrote 42 research publications in NAAS rated journals, 22 Book Chapters, 3 Books, 2 Booklets, 3 Conference papers, 20 Popular Articles, 1 Technical Bulletin, 10 Pamphlets, 8 Leaflets / Folders and 2 Practical Manuals. Recommendations for the farming and scientific community as well as a patent filed from the college is another noteworthy achievement during the year. In Human Resource development front, 82 faculty members went to attend Seminar / Conference / Workshop / Training / Convention; whereas, college hosted 11 such programmes. Annual Report nicely gives the pictorial evidence of co-curricular activities of students and staff through NSS programmes. The recognition, in the form of awards won by students and faculty members also gives immense pleasure. I take this opportunity to thank the members of Publication Cell, Placement Cell, Alumni Cell, Grievance Cell, Gender Committee, Anti-Ragging Squad, Institutional Anti-Ragging Committee and Students' Representative Council, who have performed their allotted duties with zeal and satisfaction. I congratulate the publication cell for comprehensively documenting the activities in this annual report and extend my best wishes to all faculty members of the College.

## Editorial Board



**Dr. Hemant Sharma**  
Editor



**Dr. O. P. Sharma**  
Chief Editor



**Dr. D. J. Chaudhari**  
Editor

## Acknowledgement

The editorial board would like to acknowledge the efforts of all the Head of Department, Faculty members, Administrative, Account and Academic Staff of ASPEE College of Horticulture for providing information and data for timely compilation of Annual Report 2021-22 of the college.

### ***Special Thanks to;***

1. Dr. V. K. Parmar, Professor & Head, Fruit Science
2. Dr. C. G. Intwala, Professor & Head (Research), Vegetable Science
3. Dr. D. R. Bhandari, Professor & Head (Education), Vegetable Science
4. Dr. Alka Singh, Professor & Head, Flori. & Landscape Architecture
5. Dr. Dev Raj, Professor & Head, Post Harvest Technology
6. Dr. P. R. Patel, Asso. Professor & Head, Plant Protection
7. Dr. Rehana Niyariya, Asso. Professor & Head, Basic Sciences
8. Dr. A. K. Leua, Asso. Professor, Social Sciences
9. Dr. A. R. Kaswala, Asso. Professor & Head, NRM
10. Dr. N. K. Patel, AAO
11. Dr. R. V. Tank, Academic In-Charge PG
12. Dr. A. P. Italiya, Academic In-Charge UG
13. Dr. J. M. Vashi, NSS Officer
14. Lt. G. V. Savani, NCC Officer

*We will be delighted to receive your valuable feedback for further improvements in the compilation in time to come.*

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## 1. COLLEGE PROFILE

### 1.1 Genesis

ASPEE College of Horticulture and Forestry is a prime institute providing Horticulture and forestry education and research in the state. To give a fillip to the trained human resources in the field of Horticulture and Forestry as well as to the research for meeting out the challenges in horticulture and forestry sectors, ASPEE College of Horticulture and Forestry was established in November, 1988 at Navsari (Gujarat) under the approval of *Krushik* and *Gram Vikas Vibhag* of the Government of Gujarat. For starting this college, generous donation was provided by ASPEE Foundation for Agriculture and Development, Malad, Mumbai and therefore, the college derived its name as ASPEE College of Horticulture and Forestry.

### 1.2 Vision and Mandates

#### Vision

- ❖ Generation of human resources through quality learning and strengthening research and extension activities in horticulture

#### Mandates

- ❖ To generate human resources leading to B.Sc., M.Sc. and Ph.D. in Horticulture
- ❖ To generate new knowledge through research for cost-effective and viable technologies in Horticulture
- ❖ To plan for different types of extension activities and training programmes for the development of Horticulture through effective transfer of technology

### 1.3 Operating Environment

#### Education System

The main streams of Horticulture viz., Fruit Science, Vegetable Science, Floriculture and Landscape Architecture and Post Harvest Technology are working under the umbrella of ASPEE College of Horticulture and Forestry, Navsari Agricultural University, Navsari with multi-disciplinary approach of education, research and extension education. After the inception of ASPEE College of Horticulture and Forestry, Bachelor degree programme of Horticulture and Forestry, Post Graduate degree programme in the disciplines of Fruit Science; Vegetable Science; Plantations, Spices, Medicinal and Aromatic Crops (PSMA); Floriculture and Landscape Architecture; Post Harvest Technology; Horticultural Entomology and Horticultural Pathology are going on. To impart hands-on-training in horticultural field and develop entrepreneurship among UG students, 3 modules of Student READY Experiential Learning Programme viz., Protected Cultivation of High Valued Horticultural Crops, Commercial Production of Horticultural Materials, Post Harvest Handling and Value Addition in Horticultural Crops and Floriculture and Landscape Architecture are running under the college. Apart from this, one plan project on "Practical Training Centre for students in Hi-tech Horticulture" is also functional for horticultural students. Other than degree programmes, certificate courses on Turf Grass Management and Landscape Gardening Training Programme etc. are undertaken to train the human resources in the field of Floriculture and Landscaping. Beside this, faculties are running coaching classes of JRF/SRF/NET with their own interest to train the students to excel at national competitive examinations. For undergraduate students, V Deans' Committee course curricula and syllabi are followed, whereas for post graduate students, course curricula and syllabi of BSMA Committee on Horticultural Sciences (2009) are followed.

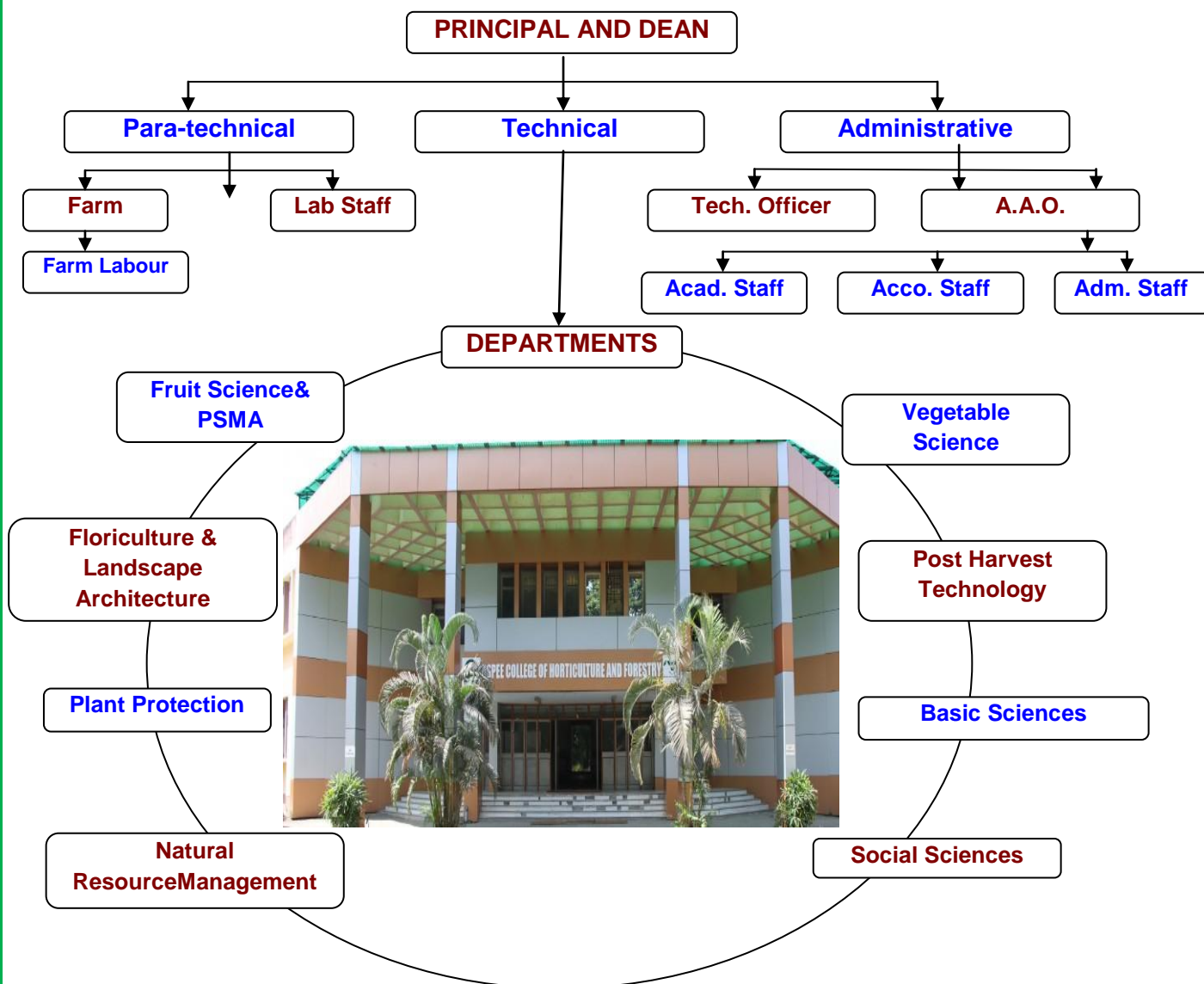
## Research System

Under the aegis of Navsari Agricultural University (NAU) and ASPEE College of Horticulture and Forestry, the Regional Horticultural Research Station has been functional since 1965 to strengthen various research activities of fruits and vegetables. There are three different schemes running under Fruit Science and PSMA discipline namely, 1) Strengthening activities of Fruit Crops, 2) Research in Fruit crops and AICRP on Palms in which scientists are working on various aspects like fruit production, breeding and climate change, *etc.* In case of Vegetable Science discipline, total five different schemes such as 1) Research in Vegetable Crops under Protected Conditions Phase-II 2) Research and Development in Vegetable Crops, 3) AICRP on Tuber Crops 4) AICRP on Vegetable Crops and 5) Vegetable grafting to mitigate biotic and abiotic stresses in vegetable crops are operational with different experiments on crop improvement, production technology, protected cultivation and vegetable grafting. In the department of Floriculture and Landscape Architecture, four different research schemes/projects are running 1) Establishment of Research Project on Floriculture, 2) Practical Training Centre of Hi-Tech Horticulture for Horticultural Students, 3) Advanced Technology Centre of Soilless System for various Crops and 4) AICRP on Floriculture are operative which deals with various research trials on crop improvement, production technology, protected cultivation and soil-less cultivation of flower crops. Beside this, two NHM sponsored project *i.e.* Model Nursery for Fruit and Ornamental Plants are also running in the college, in which different fruits, vegetables and ornamental seedlings/grafts/plants are prepared and sold to farmers on the basis of no profit no loss. Two different research schemes *viz.*, Centre of Excellence of Post harvest Technology and Establishment of Fruits and Vegetable Packing Research Station are also undergoing. The Department of Post Harvest Technology undertakes basic and strategic research in cutting edge technologies for innovative breakthrough, development of post harvest handling, transportation, packaging and intelligent storage structure for horticultural crops, development, testing, popularization and commercialization of post harvest protocols, establishment of infrastructure in terms of pilot plants (Mango, Tomato, Banana and Onion) for processing (primary /secondary /tertiary).

## Extension System

All the extension activities are directly organized by Directorate of Extension Education, NAU, Navsari through various farmer training programmes like on campus training programme in *Sardar Smriti Kendra*, Agricultural Technology Information Centre and Farmers Training Centre and off campus activities at different villages of south Gujarat. Horticulture scientists are actively involved in various training activities and deliver lectures and also provide their valuable inputs/suggestions to the farmers of Gujarat state as well as adjoining states. However, most of the extension activities were conducted on virtual mode owing to the unprecedented situation enforced by COVID 19. Farmers willing to seek government subsidy to Green House cultivation are also trained on various aspects of Protected Cultivation of Horticultural Crops by horticultural scientists in 15 days training programme organized at Agricultural Technology Information Centre, NAU, Navsari. Besides this, college also organizes training programmes and exhibition-cum-competition and Hand-on-Trainings to the farmers of Gujarat. The Scientists also disseminate various horticultural technical know-how through publications, TV and Radio talks in vernacular language. The scientists do participate actively in *Krishi Mahotsava* – a flagship programme of Government of Gujarat, to share knowledge among farmers on various aspects of Hi-Tech horticulture technologies.

## 1.4 Administrative Structure of the College



## 1.5 Incumbency Chart of Principal & Dean

S. N.	Name	From	To
1	Dr. A. H. Shah	14-11-1988	29/01/1990
2	Dr. B. S. Chundawat	30-01-1990	29/02/2000
3	Dr. B. M. Patel	01-03-2000	31/07/2004
4	Dr. R. R. Patel	01-08-2004	28/11/2006
5	Dr. N. L. Patel	29-11-2006	30/06/2015
6	Dr. B. N. Patel	01-07-2015	31/12/2019
7	Dr. P. K. Shrivastava	01-01-2020	31/05/2022
8	Dr. Alka Singh	01-06-2022	Cont....



**Dr. Alka Singh**

Principal & Dean

College of Horticulture

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## 1.6 Administrative and Supporting Technical Staff in Principal's Office

### 1.6.1 Administrative and supporting staff positions

S.N.	Designation	Name of Staff Member	From	To
1	Asst. Adm. Officer	-	-	-
2	Office Superintendent	-	-	-
3	Head Clerk	-	-	-
4	Senior Clerk	Smt. Kumudini Shantilal Tandel	01/11/2016	Retired on 30/06/2022
5	Senior Clerk	Ku. Neelam Ghelabhai Patel	30/09/1998	Continue
6	Senior Clerk	Shri Rajendra Gumanbhai Patel	01/03/2018	Transfer
7	Senior Clerk	Shri Narsinhbhai Maganbhai Patel	14/09/1990	Continue
8	Senior Clerk	Shri Bharatbhai Dahyabhai Patel	14/09/1990	Continue
9	Senior Clerk	Shri Hirenkumar Ravajibhai Sodarava	13/04/2022	Continue
10	Junior Clerk	Smt. Yogitaben Sureshbhai Patel	23/08/2007	Continue
11	Junior Clerk	Smt. Dipikaben Dhanraj Kolhe	31/08/2012	Continue
12	Junior Clerk	Shri Satishkumar Ballubhai Patel	31/08/2012	Continue
13	Junior Clerk	Shri Tarunbhai Dhirubhai Solanki	15/02/2022	Continue
14	Peon	-	-	-
15	Steno Grapher	Smt. Nayanaben Sumanbhai Patel	01/03/2018	Continue
16	Sweeper	Smt. Geetaben Navneetbhai Mahida	01/04/2002	Continue
17	Lab Boy	Shri Gulambhai Daudbhai Khalifa	01/10/2005	Transfer
18	Lab Boy	Shri Dolatray Shukkarbhai Rathod	24/10/1986	Retired on 30/06/2022
19	Lab Boy	Shri Bipinbhai Naranbhai Patel	01/04/2002	Transfer

### 1.6.2 Technical Staff Positions (Including plan scheme)

S.N.	Designation	Name of Staff Member	From	To
1	Senior Technical Assistant	Shri Gaurangkumar Bipinchandra Desai	25/03/2010	Continue
2	Technical Assistant	-	-	-
3	Agriculture Officer	Shri Ramjibhai Ravajibhai Lad	16/02/2015	Retired on 30/06/2022
4	Agriculture Officer	Shri Mahendrasinh Bhikhabhai Solanki	01/09/2020	Retired on 31/08/2021
5	Agriculture Officer	Shri Heerabhai Kalabhai Chaudhary	17/09/2018	Continue
6	Agriculture Officer	Shri Prasulkumar Rameshbhai Patel	04/04/2011	Continue
7	Agriculture Assistant	Smt. Kirtibahen Parabhubhai Patel	23/09/2015	Continue
8	Agriculture Assistant	Shri Ishwarbhai Naginbhai Patel	14/12/1992	Retired on 30/06/2022
9	Agriculture Assistant	Shri Kunjalkumar Pravinbhai Chauhan	07/09/2017	Transfer
10	Agriculture Assistant	Shri Ashokbhai Khaljibhai Chaudhary	01/03/2014	Continue
11	Agriculture Assistant	Shri Natubhai Jagubhai Patel	06/01/1994	Retired on 30/06/2022
12	Agriculture Assistant	Shri Sanjaykumar Chandrakant Patel	01/08/2017	Transfer
13	Agriculture Assistant	Smt. Sonalben Dhanjibhai Patel	07/09/2017	Continue
14	Agriculture Assistant	Ku. Ektakumari Ballubhai Patel	11/07/2018	Continue
15	Agriculture Assistant	Ku. Unnatikumari Dilipbhai Patel	01/07/2018	Continue
16	Agriculture Assistant	Shri Vikaskumar Amrutbhai Patel	24/09/2015	Transfer
17	Agriculture Assistant	Smt. Pinalben Dilipbhai Patel	03/01/2020	Transfer
18	Agriculture Assistant	Shri Hiteshkumar Dahyabhai Patel	07/09/2017	Continue
19	Tractor Driver	-	-	-
20	Lab Technician	Smt. Akrutiben Dilipkumar Patel	04/11/2020	Continue
21	Lab Technician	Shri Gaurangkumar Babubhai Surati	25/03/2010	Continue
22	Lab Technician	Shri Kapilbhai Gopalbhai Tandel	20/11/2020	Continue
23	Lab Technician	Bhavineeben Ramanbhai Patel	11/11/2020	Continue
24	Assistant Instructor	-	-	-
25	Field Assistant	Shri Sunilkumar Tahkorbhai Patel	02/04/2011	Continue
26	Field Assistant	Smt. Shitalkumari Vinodlal Dhimmar	01/07/2019	Continue
27	Store Keeper	Smt. Hemlata Kalpeshbhai Patel	02/04/2011	Continue
28	Plant Operator	Shri Balvantkumar Devabhai Ahir	02/04/2011	Continue
29	Agriculture Supervisor	Shri Maheshkumar Ramanbhai Patel	01/09/1997	Retired on 30/06/2022
30	Agriculture Supervisor	Shri Nareshbhai Bhagubhai Patel	16/02/2015	Continue



## 2. ACADEMIC PROGRAMMES

### 2.1 Degree Programmes

S.N.	Degree Programmes	Field of Specialization	Duration	Intake Capacity	Commencement Year
<b>UNDER GRADUATE PROGRAMME</b>					
1	<b>B.Sc. (Hons.)</b>	Horticulture	8 Semesters	60+10+7**	1988-89
<b>POST GRADUATE PROGRAMME</b>					
2	<b>M.Sc. (Hort.)</b>	1. Fruit Science	4 Semesters	14	1998-99
		2. Plantation, Spices, Medicinal & Aromatic Crops (PSMA)	(Full time)	03	2010-11
		3. Vegetable Science		11	1997-98
		4. Floriculture and Landscape Architecture	6 Semesters (In-Service)	09	1997-98
		5. Post Harvest Technology		07	2004-05
		<b>Total</b>		<b>44</b>	
3	<b>Ph.D (Hort.)</b>	1. Fruit Science	6 Semesters	6	2005-06
		2. Vegetable Science	(Full time)	3	2007-08
		3. Floriculture and Landscape Architecture	8 Semesters (In-Service)	4	2005-06
		4. Post Harvest Technology		2	2006-07
		<b>Total</b>		<b>15</b>	

\*\* State+ICAR+EWS

### 2.2 Academic Achievements

Degree Programmes		No. of students awarded degree
<b>B.Sc. (Hons.) Horticulture</b>		52
<b>M.Sc.(Hort.)</b>	Fruit Science	16
	Plantation, Spices, Medicinal & Aromatic Crops (PSMA)	04
	Vegetable Science	10
	Floriculture and Landscape Architecture	08
	Post Harvest Technology	03
	Horticultural Entomology	04
	Horticultural Pathology	02
	<b>Total</b>	<b>47</b>
<b>Ph.D (Hort.)</b>	Fruit Science	06
	Vegetable Science	03
	Floriculture and Landscape Architecture	00
	Post Harvest Technology	04
	Horticultural Entomology	01
	Horticultural Pathology	00
	<b>Total</b>	<b>14</b>

## 2.3 Students' Strength

### 2.3.1a Category wise strength of UG students during Odd Semester

Category	I Semester		III Semester		V Semester		VII Semester		Total	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
General	02	05	02	02	03	01	18	05	25	13
SC	01	03	02	01	--	--	03	02	06	06
ST/DNT	--	07	03	06	03	10	03	07	09	30
SEBC	13	14	16	13	17	09	08	11	54	47
ICAR	04	05	04	02	04	03	08	01	20	11
EWS	07	05	12	01	10	07	--	--	29	13
Sub-Total (CBSE*)	01	02	02	--	--	02	--	02	03	06
Total	28	41	41	25	37	32	40	28	146	126

\* including CBSE seat

### 2.3.1b Category wise strength of UG students during Even Semester

Category	II Semester		IV Semester		VI Semester		VIII Semester		Total	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
General	02	05	02	02	03	01	18	05	25	13
SC	01	02	02	01	--	--	03	02	06	05
ST/DNT	--	05	03	06	02	10	03	07	08	28
SEBC	11	11	16	13	17	09	08	11	52	44
ICAR	03	03	04	02	04	03	08	01	19	09
EWS	06	05	12	01	10	07	--	--	28	13
Sub-Total (CBSE*)	01	02	02	--	--	02	--	02	03	06
Total	24	33	41	25	36	32	40	28	141	118

\* including CBSE seat

### 2.3.2 Discipline wise strength of M.Sc. (Hort.) students

S.N.	Specialization	No. of students registered	
		Full time	In-service
1	Fruit Science	21	00
2	Plantation, Spices, Medicinal & Aromatic Crops (PSMA)	05	00
3	Vegetable Science	17	00
4	Floriculture and Landscape Architecture	16	00
5	Post Harvest Technology	12	00
6	Horticultural Entomology	02	00
7	Horticultural Pathology	00	00
Total		73	00

### 2.3.3 Discipline wise strength of Ph.D. (Hort.) students

S.N.	Specialization	No. of students registered	
		Full time	In-service
1	Fruit Science	12	09
2	Vegetable Science	10	06
3	Floriculture and Landscape Architecture	10	03
4	Post Harvest Technology	01	00
5	Horticultural Entomology	02	00
6	Horticultural Pathology	01	00
Total		36	18

## 2.4 Scholarships/Financial Assistance to Students

S.N.	Types of Scholarship/Financial Aid	Number of Recipient	Amount (Rs.)
1	National Talent Scholarship	22-UG & 01 -PG	740200+79100
2	Merit Scholarship	08	4320
3	NAU UG Scholarship	21	268500
4	NAU PG (M.Sc. & Ph.D.) Scholarship	05	184800
5	SEBC Post Metric Scholarship (UG & PG)	65-UG+17-PG	-
6	SC Post Metric Scholarship	10-UG+02-PG	-
7	ST Post Metric Scholarship	28-UG+07-PG	-
8	Dr. B.R. Ambedkar EBC Scholarship	23-UG+12-PG	-
9	Fellowship scheme for M. Phil, Ph.D. Students (SEBC)	00-PG (Ph.D.)	-
10	Junior Res. Fellow. (ICAR)	15 (M.Sc.)	1742358
11	Senior Res. Fellow. (ICAR)	05 (Ph.D.)	1832549
Total		241	4851827

## 2.5 Students Awarded B.Sc. (Hons.) Horticulture Degree

S.N.	Reg. No.	Name of Student	S.N.	Reg. No.	Name of Student
1	3020217001	Ashly Jossy	27	3020217030	Patel Bhavik Rameshbhai
2	13020217002	Baflipara Ronak Rajeshbhai	28	3020217032	Kanvikumari Nareshbhai Patel
3	3020217003	Bhakhar HirenkumarDhirajlal	29	3020217033	Patel Khushbu Cheharbhai
4	3020217004	Bhimani Hiral Subhashbhai	30	3020217034	Patel Mayank Ganeshbhai
5	3020217005	Bhimani Nidhi	31	3020217035	Patel Meetkumar Arvindbhai
6	3020217006	Chaudhari Sahil Natavarbhai	32	3020217036	Navangi Patel
7	3020217009	Drashti Pramodbhai Patel	33	3020217037	Riddhi Patel
8	3020217010	Gandhi Isha Nilehskumar	34	3020217038	Patel Syuzi Navinbhai
9	3020217012	Gaudaniyash	35	3020217039	Patel Yogvidhya Rameshbhai
10	3020217013	Gohel Prashant R.	36	3020217041	Dhruvi Prakashbhai Prajapati
11	3020217014	Javiya Anjali	37	3020217042	Prateek Taneja
12	3020217015	Jogal Sunil Keshurbhai	38	3020217043	Rankja Raj
13	3020217016	Jyotsna PR	39	3020217044	Savaj Chetan
14	3020217017	Kanara Kishan	40	3020217045	Savaliya Mohit Mathurbhai
15	3020217018	Shailesh Khimani	41	3020217047	Solanki Dhara Ramsibhai
16	3020217019	Kishor Varotariya	42	3020217048	Sondarva Sagar B.
17	3020217020	Vivekkumar Ramanlal Lad	43	3020217049	Vekariyavraj
18	3020217021	Lunagariya Ajay Mansukhbhai	44	3020217050	Jigar Chaudhari
19	3020217022	Manoj Sharma	45	5020218001	Dabhi Arunkumar Natavarbhai
20	3020217023	Master Razinanvar Husen	46	5020218002	Ghoniya Keval Mukeshbhai
21	3020217024	Ms. Pooja	47	5020218003	Hirpara Nihar Amrutlal
22	3020217025	Mulani Neha Pravinbhai	48	5020218004	Parmar Yukti Navanitbhai
23	3020217026	Mungalpara Rushikkumar Vithhalbhai	49	5020218005	Patel Priyal Nareshchandra
24	3020217027	Ajay Narola	50	5020218006	Patel Urvashiben Shankarbhai
25	3020217028	Odedara Hitesh Pratapbhai	51	5020218007	Vaghasiya Sahil Babubhai
26	3020217029	Mulrajsinh Parmar	52	5080218008	Tandel Twinkle Anilbhai

## 2.6 Students Awarded M.Sc. (Hort.) Degree

S.N.	Reg. No.	Name of Student	Title of the Thesis	Major Guide	Discipline
1	2020219038	Sarvaiya Jaydipbhai Prabhubhai	"Response of vegetable cowpea [ <i>vigna unguiculata</i> (L.) Walp.] To foliar application of pgrs"	Dr.S.N.Saravaiya	Vegetable Science
2	2020219018	Mandaliya Jaydeep Vinubhai	"Response of vegetable cowpea [ <i>Vigna unguiculata</i> (L.) Walp.] To different biostimulants"	Dr.K.D.Desai	Vegetable Science
3	2020219011	Gomdaliya Bhavi k Rameshbhai	"Effect of chemicals on growth, yield and quality of baby corn ( <i>zea mays</i> L.)"	Dr.K.D.Desai	Vegetable Science
4	2020219020	Mohammad Sharif	"Response of foliar application of novel organic liquid nutrients on okra [ <i>abelmoschus esculentus</i> (L.) Moench]"	Dr.D.R.Bhande ri	Vegetable Science
5	2020219010	Ganvit Jaydeepkumar Mohanbhai	"Effect of sowing date and nitrogen on growth, yield and quality of beet leaf ( <i>Beta vulgaris</i> var. <i>bengalensis</i> )"	Dr.V.K.Parmar	Vegetable Science
6	2020219009	Chaudhari Vishalkumar Mansungbhai	"Bio-fertilizer based nutrient management in cauliflower"	Dr.N.K.Patel	Vegetable Science
7	2020219029	Patel Mansi Vijaybhai	"Effect of foliar spray of nutrients on growth, yield and quality of indian bean [ <i>Lablab purpure</i> (L.) Sweet.]"	Dr.N.K.Patel	Vegetable Science
8	2020219047	Umme Fiza	"Genetic investigations in brinjal ( <i>solanum melongena</i> L.)"	Dr.D.R.Bhande ri	Vegetable Science
9	2020219046	Thummar Paragkumar Rameshbhai	"Effect of different levels of nitrogen fertigation and nutrient spray on growth, yield and quality of brinjal var. Gnrb 1"	Dr.S.S.Masaye	Vegetable Science
10	2020219017	Madineni Tejaswini	"Seedling invigouration by halo-priming for salt tolerance in bell pepper ( <i>capsicum annuum</i> L.)"	Dr.Sanjeev Kumar	Vegetable Science
11	2020219042	Solanki Kaushikkumar Satyanarayan	"Response of varieties and spacing on growth, spreading and quality of turfgrass under south gujarat condition"	Dr.G.D.Patel	FLA
12	2020219007	Chandana Shivaswamy	"Induction of variability in china aster [ <i>callistephus chinensis</i> (L.) Nees] by chemical mutagens"	Dr.Sudha Patil	FLA
13	2020219027	Patel Jeminiben Dhansukhbhai	"Influence of plant growth regulators on growth, flowering and yield of china aster var. Arka archana"	Dr.B.B.Patel	FLA
14	2020219033	Patel Tejalbaben Prakashbhai	"Effect of growth retardants on induction of dwarfing in bougainvillea ( <i>bougainvillea spectabilis</i> )"	Dr.Dipal Bhatt	FLA
15	2020219004	Baraiya Ajay Himmatbhai	"Induction of variability in gladiolus ( <i>gladiolus grandiflorus</i> L.) By chemical mutagens"	Dr.Sudha Patil	FLA
16	2020219040	Sindha Mallikaben Ravjibhai	"Effect of different types of cuttings and iba concentration on	Dr.S.T.Bhatt	FLA

			rooting of damas plant ( <i>conocarpus lancifolius</i> l.)"		
17	2020219043	Soujanya M B	"Effect of organic mulch on growth and flowering of country rose"	Dr.S.T.Bhatt	FLA
18	2020219039	Savaliya Ravikumar Viththalbhai	"Determination of suitable maturity index of mango ( <i>mangifera indica</i> l.) Fruits var. Sonpari"	Dr.D.K.Sharma	Fruit Science
19	2020219035	Patel Yashkumar Narsinhbhai	"Influence of different organics on fruiting, yield and quality of mango ( <i>mangifera indica</i> l.) Cv. Kesar"	Dr.B.M.Tandel	Fruit Science
20	2020219031	Patel Nikitakumari Chandrakant	"Effect of foliar application of biostimulants on growth, yield and quality of strawberry ( <i>fragaria</i> x <i>ananassa</i> duch.) Cv. Winter dawn"	Dr.D.K.Sharma	Fruit Science
21	2020219022	Naik Smit Hitendrabhai	"Effect of chemicals and organics on seed germination, growth and survival of karonda"	Dr.S.S.Gaikwad	Fruit Science
22	2020219002	Ahir Ankit Keshavbhai	"Ecological amplitude of <i>melia dubia</i> cav. For physico-anatomical properties of wood in south gujarat"	Dr.S.S.Gaikwad	Fruit Science
23	2020219023	Nutan Gujarati	"Evaluation of <i>phalaenopsis</i> orchid for growth and yield under net house condition"	Dr.Sudha Patil	Fruit Science
24	2020219014	Jadhav Parth Janardhan	"Effect of pre-harvest treatments on post-harvest behaviour of sapota [ <i>manilkara achras</i> (mill.) Fosberg] cv. Kalipatti "	Dr.A.K.Pandey	Fruit Science
25	2020219049	Zala Vijaykumar Ramasibhai	"Effect of different organic spray on yield and biochemical attributes of sapota [ <i>manilkara achras</i> (mill.) Fosberg] cv. Kalipatti"	Dr.A.K.Pandey	Fruit Science
26	2020219013	Jadav Hardipsinh Manojsinh	"Pollen morphological studies of different guava varieties under south gujarat condition"	Dr.Y.N.Tandel	Fruit Science
27	2020219012	Goswami Karan Chandrabhangiri	"Effect of pre-harvest fruit dipping on fruit development and quality of mango ( <i>mangifera indica</i> l.) Cv. Amrapali"	Dr.C.R.Patel	Fruit Science
28	2020219030	Patel Mayuriben Bipinbhai	"Effect of cutting size and pgr's on stem cutting of dragon fruit"	Dr.B.M.Tandel	Fruit Science
29	2020219006	Brunda N. B.	"Standardization of blended squash using banana pseudostem sap with mango, papaya and <i>aloe vera</i> "	Dr.C.S.Desai	Post Harvest Technology
30	2020219048	VaishnavAvinashkumar Hiralal	"Seasonal abundance and evaluation of botanical extracts against thrips ( <i>scirtothrips dorsalis</i> hood) on chilli"	Dr.H.V.Pandya	Horticultural Entomology
31	2020219015	Kasad Urvaksh Zarir	"Screening of genotypes and management of major insect pests of gladiolus, <i>gladiolus grandiflorus</i> l."	Dr.Snehal Patel	Horticultural Entomology

32	2020219003	Ahir Shreyakumari Kishorbhai	"Seasonal abundance and management of pod borer complex in indian bean ( <i>lablab purpureus</i> L.)"	Dr.Snehal Patel	Horticultural Entomology
33	2020219001	AbhigyaBharati	"Investigation of seed mycoflora of tomato [ <i>solanumlycopersicum</i> L.] And its management"	Dr.P.R.Patel	Horticultural Pathology
34	2020219028	Patel Jigisha Ashokbhai	"Effect of pinching and plant growth regulators on growth and yield of fenugreek ( <i>trigonella foenum-graecum</i> L.) Cv. Gm-2"	Dr.M.M.Patel	PSMA
35	2020219034	Patel Vishalkumar Chhibubhai	"Effect of nitrogen and spacing on herbage yield multi-cut coriander var. Gdlc-1"	Dr.M.M.Patel	PSMA
36	2020219026	Patel Divyeshkuar Vallabhbhai	"Effect of micronutrient application on growth, yield and quality of turmeric ( <i>curcuma longa</i> L.)Cv. Gnt-2"	Dr.P.P.Bhalerao	PSMA
37	2020219044	Sowmya K.	"Effect of foliar application of organic liquid sources on growth, yield and quality of garlic cv. Yamuna safed-3"	Dr.P.P.Bhalerao	PSMA
38	2020219016	Kunwar Hetalben Ramanbhai	"Studies on seed mycoflora of bottle gourd and its management"	Dr.V.P.Prajapati	Horticulture Pathology
39	2020219019	Mayursinh Jitendrasinh Dabhi	"Studies on shelf-life extension of sapota [ <i>manilkara achras</i> (mill.) Fosberg] fruits cv. Kalipatti"	Dr.N.V.Patel	Post Harvest Technology
40	2020219036	Prajapati Hinjalkumari Shantilal	"Standardization of technology for preparation of spiced squash using mango ( <i>mangifera indica</i> L.) Cv. Rajapuri	Dr. N.V.Patel	Post Harvest Technology
41	2020219021	Motilal	"Germination and growth study in guava"	Dr.B.M.Tandel	Fruit Science
42	2020219013	Jadav Hardipsinh Manojsinh	"Pollen morphological studies of different guava varieties under south gujarat condition"	Dr.Y.N.Tandel	Fruit Science
43	2020219012	Goswami Karan Chandrabhangiri	"Effect of pre-harvest fruit dipping on fruit development and quality of mango ( <i>mangifera indica</i> L.) Cv. Amrapali"	Dr.C.R.Patel	Fruit Science
44	2020219030	Patel Mayuriben Bipinbhai	"Effect of cutting size and pgr's on stem cutting of dragon fruit"	Dr.B.M.Tandel	Fruit Science
45	2020219041	Solanki Falguni Mahendrakumar	"Effect of flowering flushes and harvest maturity on yield and quality of mango ( <i>mangifera indica</i> L.) Fruits var. Alphonso"	Dr.D.K.Sharma	Fruit Science
46	2020219032	Patel Sheetalbahen Shaileshbhai	"Effect of different planting time and stimulants on growth, flowering and yield of chrysanthemum"	Dr.D.S.Bhatt	FLA
47	2020220003	Bharodiya Dhruv Anilbhai	"Evaluation various botanical extracts against head borer [ <i>hellula undalis</i> (fabricius)] infesting cabbage"	Dr.H.V.Pandya	Horticultural Entomology



## 2.7 Students Awarded Ph.D (Hort.) Degree

S.N.	Reg. No.	Name of Student	Title of the Thesis	Major Guide	Discipline
1	1020214014	Sangani Sandeepkumar Labhubhai	Studies on preparation of protein enriched pre-biotic carambola-guava blended beverage	Dr.Dev Raj	Post Harvest Technology
2	1020218001	Ashuqullah	Preservation techniques for value addition of carrot ( <i>daucus carota</i> l.) By juice extraction and drying	Dr.Dev Raj	Post Harvest Technology
3	1020218008	Naik Poojaben Rajeshbhai	Processing and value addition of carrot ( <i>daucus carota</i> l.) Into fresh-cut pieces, candy and instant <i>halwa</i> mix	Dr.Dev Raj	Post Harvest Technology
4	1020217004	Bharai Rambhai Boghabhai	Processing and value addition of sapota fruits ( <i>manilkara achras</i> (mill) fosberg)	Dr.Dev Raj	Post Harvest Technology
5	1020218010	Patel Hardikkumar Shivrambhai	Integrated nutrient management (inm) in ridge gourd ( <i>luffa acutangula</i> l.) Cv, garg-1	Dr.N.B.Patel	Vegetable Science
6	1020218005	Jayanth S	Genetic and stability analysis for pod yield and its contributing characters in okra [ <i>abelmoschus esculentus</i> (l.) Moench]	Dr.D.R.Bhandari	Vegetable Science
7	1020218013	Surela Vipulbhai Anadabhai	Bio-efficacy insecticides, estimation of pesticide residue and screening of sapota genotypes against major insect-pests	Dr.H.V.Pandya	Horticultural Entomology
8	1020218003	Der Mayurkumar Lakhabhai	Response of different month of ratooning with bunch spray of ga <sub>3</sub> and ba on yield and quality of banana ( <i>musa paradisiaca</i> l.) Cv. Grand nain	Dr.S.J.Patil	Fruit Science
9	1020217003	Bagul Hemantbhai Bhaskarbhai	Effect of different pre-harvest chemical sprays and post-harvest dipping treatments on yield, quality and shelf life of sapota [ <i>manilkara achras</i> (mill.) Fosberg] cv. Kalipatti	Dr.T.R.Ahlawat	Fruit Science
10	1020218006	Khalasi Devangbhai Natvarbhai	Effect of hand trimming and bunch feeding of nutrient in banana cv. Grand naine	Dr.T.R.Ahlawat	Fruit Science
11	1020218014	Thakariya Hitesh Ramanlal	Effect of 1-mcp and storage conditions on shelf life and quality of sapota	Dr.Y.N.Tandel	Fruit Science
12	1020218002	Christian Hetal Jayantilal	Response of foliar spray of nutrients on flowering, fruit set, yield and quality of sapota cv. Kalipatti	Dr.R.V.Tank	Fruit Science
13	1020219016	Sakriya Shveta Gokalbhai	Genetic and stability analysis for pod yield and its contributing characters in okra [ <i>abelmoschus esculentus</i> (l.) Moench] using 1 × t design	Dr.S.N.Saravaiya	Vegetable Science
14	1020219003	Chalak Sunil Uddhavrao	Effect of climatic parameters on flowering behaviour, fruit set and fruit drop of different cultivars of mango under south gujarat conditions	Dr.S.J.Patil	Fruit Science

## 2.8 Post Graduate- Research Approval Committee

S.N.	Name & Designation	Position
1	Professor & Head, Respective Department/Discipline	Chairman
2	Faculty Members of respective major discipline	Member
3	Faculty Members of respective minor discipline	Member
4	Faculty Members of supporting discipline	Member
5	Statistician	Member

## 2.9 Students Qualified SRF

S.N.	Reg. No.	Name of the Students	Discipline
1	2020219014	Jadhav Parth	Fruit Science
2	2020219007	Chandana Shivaswamy	Floriculture and Landscape Architecture
3	2020219040	Sindha Mallikaben Ravjibhai	Floriculture and Landscape Architecture

## 2.10 Medals/Awards conferred to students

S.N.	Name of Medal	Name of Student	Degree
<b>Gold Medal</b>			
1	Chancellor's Gold Medal for Doctoral Degree	Suchismita Jena	Ph.D. (Horti.) Fruit Science
2	Vice-Chancellor's Gold Medal for B.Sc. Horti.	Odedara Hitesh Pratap	B.Sc. (Hons.) Horti.
<b>Gold Plated Silver Medal</b>			
1	"ASPEE Foundation Gold Plated Silver Medal" for B.Sc. Horti.	Odedara Hitesh Pratap	B.Sc. (Hons.) Horti.
2	"ASPEE Foundation Gold Plated Silver Medal" for M.Sc. (Horti.) Fruit Science or Vegetable Science	Champaneri Dushyant Dipakkumar	M.Sc. (Veg.)
3	"ASPEE Foundation Gold Plated Silver Medal" for M.Sc. (Horti.) Flori. L. A. or PHT	Vidyashree S	M.Sc. (Flori)
4	"ASPEE Foundation Gold Plated Silver Medal" for Ph.D. (Horticulture)	Mamilla Sindhuja	Ph.D. (Flori.)
5	"Kalpataru Gold Plated Silver Medal" for M.Sc./ M. Tech./ Ph.D. (Agri./ Horti./ PHT & PE)	Sushmitha M B	M.Sc. (PHT)
<b>Gold Plated Bronze Medal</b>			
1	"Late Shri Bhulabhai Karsanji Patel Gold Plated Bronze Medal" for B.Sc. Horti.	Odedara Hitesh Pratap	B.Sc. (Hons.) Horti.
2	"Late Mrs. Indumatiben and Dr. Pravinbhai Shukla Gold Plated Bronze Medal" for M.Sc. PSMA	Architha MV	M.Sc. (PSMA)

### Glimpses of Medals/Awards to the students



**Suchismita Jena**  
Ph.D. (Fruit Science)



**Mamilla Sindhuja**  
Ph.D. (FLA)



**Vidyashree S.**  
M.Sc. (FLA)



**Champaneri Dushyant Dipakkumar**  
M.Sc. (Vegetable Science)



**Architha M. V.**  
M.Sc. (PSMA)



**Odedara Hitesh Pratap**  
B.Sc. (Hons.) Horti.

## 2.11 Student READY- Experiential Learning Programme

### Income and Profit Sharing among students (2021-22)

Course No.	Name of Model	No. of Students trained	Total Expenditure (Rs.)	Total Income (Rs.)	Total Profit (Rs.)	50% of profit (Rs.)	Profit/student Rs.
<b>HWE 7.1 (0+10)</b>	Hi-Tech Protected Cultivation of Horticultural Crops	46	39629	275090	235462	117731	2559
<b>HWE 7.2 (0+10)</b>	Commercial Production of Horticultural Planting Materials	47	32750	151960	119210	59605	1268
<b>HWE 7.3 (0+10)</b>	Post Harvest Handling and Value Addition in Horticultural Crops	43	73000	93110	20110	10055	233

## Activities under ELP

### Model 1: Hi-Tech Protected Cultivation of Horticultural Crops

For the year 2021-22, a total of 46 students were trained under the ELP Module-1 Hi-Tech Protected Cultivation of Horticultural Crops which is associated mainly with production of high valued flowers and vegetables. During this ELP Program students learned about commercial cultivation of flowers and vegetables under protected condition which included different operations like bed preparation, planting, irrigation, nutrient management and insect and pest management. They also got hands on training on different crop specific practices such as bending in rose and training in tomato. Students were also actively engaged in nursery management of ornamental plants and vegetable seedlings. They learned to raise flowering plants and vegetable plants through plug tray method. Students were also trained to raise different ornamental plants in polybags and as pot plants. They were engaged in production of indoor plants, succulents, cactus, annuals, flowering plants, etc. Different exhibitions and shows were organized wherein students sharpened their marketing skills including customer dealing and event management.





Preparation of Flower Bouquet



Planting of Rose



Preparation of Exhibition



Annual seed sowing and fertigation



Indoor plant exhibition cum sale on October 27, 2021

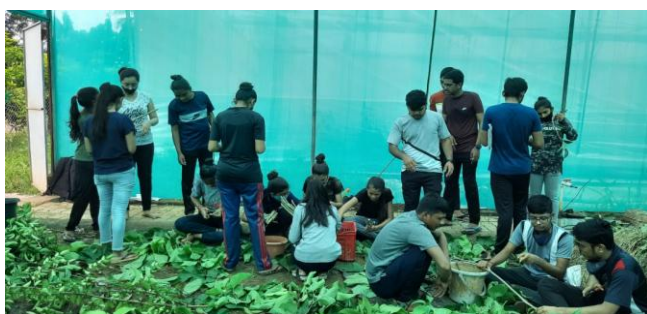


Winter flower Fest on December 27-31, 2022



### Model 2: Commercial Production of Horticultural Planting Materials

For the year 2021-22, a total of 47 students were trained under the ELP Module-2 Commercial Horticulture (Commercial Production of Horticultural Planting Materials) which is based on nursery production of fruit plants and vegetable seedlings. During this period of ELP programme students learned about different nursery practices in fruit crops as well as in vegetable crops. For vegetable seedlings nursery students were practically learned about the commercial production of vegetable seedling which includes different activities *e.g.* seedbed preparation, leveling, sowing of seeds, irrigation, nutrient management, insect-pest management, *etc.* During this programme students prepared vegetable seedlings of tomato, chilli, brinjal, cabbage, cauliflower, fenugreek, coriander and palak and different vegetable plants *e.g.* drumstick, little gourd, *etc.* For fruit plant nursery they have prepared various seedlings like aonla, karonda, citrus, custard apple, phalsa, coconut, guava, carambola, jackfruit, *etc.*, air layering of white jamun, cherry, red jamun, pomegranate, *etc.* and cuttings of fig, mulberry, *etc.* Students also got good exposure for the selling and market dealing with the farmers.



Cuttings of different Fruit Crops



Sowing of Coconut seednut

Pine apple crowns preparation for sowing



Air layering in Jamun





Preparation of nursery bed



Sowing of vegetable seeds



Extracting Karonda Seeds



Selling of Vegetable Seedlings

### Model 3: Post Harvest Handling and Value Addition in Horticultural Crops

For the year 2021-22, a total of 43 students were admitted and trained under the ELP module-3 Post Harvest handling and value addition in Horticultural crops at Department of Post Harvest Technology. During this period students have made processed products such as Mango Squash, Mango Nectar, Pineapple Squash, Pineapple Nectar, Guava Squash, Guava nectar, Orange Squash, Orange Drink (RTS), Mix fruit Jam, Noni Juice, Aonla Juice, Aonla Powder, Turmeric Powder, Kasurimethi, Value added Pasta, Tomato Ketchup, Tomato chutney, Mango ice-cream, Frozen peas and Mashroom drying. They have procured the raw materials, prepared the valued added products and marketed the prepared product to earn the revenue. They got in hand practical learning experience under this program.



Tomato ketchup processing



Mango nectar processing



Preparation of banana wafers



Grading of Guava fruits





Guava pulping



Commercial products prepared in PHT under ELP by students

## 2.12 Certificate Courses

S.N.	Name of Course	Course duration	Course Director/ Coordinator	Year of start
1	Turf Grass Management	3 Months	Course Director: Dr. S. L. Chawla; Course Coordinators: Dr. H. P. Shah, Dr. M. A. Patel	2015
2	Landscape Gardening Training Programme	6 Months	Dr. H. P. Shah	2010-11

## 3. STAFF POSITIONS AND FUND UTILIZATION

### 3.1 Faculty Positions (Including ICAR Schemes)

S.N.	Name of Post	Pay Scale	B.H.	Post			Remarks
				Sanctioned	Filled	Vacant	
1	Principal	144200-218200	12237	1	0	1	Plan
2	Professor	144200-218200	12237	4	4	0	Plan
3	Associate Professor	131400-217100	12237	12	10	2	Plan
4	Assistant Professor	57700-182400	12237	27	22	5	Plan
5	Principal	144200-218200	12952	1	1	0	Plan
6	Professor	144200-218200	12952	4	3	1	Plan
7	Associate Professor	131400-217100	12952	10	10	0	Plan
8	Assistant Professor	57700-182400	12952	21	11	10	Plan
9	Assistant Research Scientist	57700-182400	12046-1	1	1	0	Plan
10	Associate Professor	79800-211500	12138	1	1	0	Plan
11	Assistant Professor	57700-182400	12138	6	6	0	Plan
12	Assistant Research Scientist	57700-182400	12097	1	1	0	Plan
13	Associate Professor	131400-217100	12244	1	1	0	Plan
14	Assistant Professor	57700-182400	12244	2	2	0	Plan
15	Assistant Research Scientist	57700-182400	12021	2	2	0	Plan
16	Assoc. Research Scientist	79800-211500	12019	1	1	0	Plan
17	Assistant Research Scientist	57700-182400	12019	1	1	0	Plan
18	Assistant Research Scientist	57700-182400	12022	1	1	0	Plan

19	Assoc. Research Scientist	131400-217100	12017	1	0	1	Plan
20	Assistant Research Scientist	57700-182400	12017	1	0	1	Plan
21	Assistant Research Scientist	57700-182400	12041	1	1	0	Plan
22	Assoc. Research Scientist	131400-217100	12014-5	1	1	0	Plan
23	Assoc. Research Scientist	79800-211500	5014-3	1	0	1	Non-Plan
24	Professor	144200-218200	6503-3	1	1	0	Non-Plan
25	Associate Professor	79800-211500	6503-3	2	1	1	Non-Plan
26	Assistant Professor	57700-182400	6503-3	2	2	0	Non-Plan
27	Assistant Ext.Educationist	57700-182400	5228	1	1	0	Non-Plan
28	Assistant Horticulturist	57700-182400	2006-3	1	1	0	ICAR
29	Assistant Horticulturist	68900-205500	2044	1	1	0	ICAR

### 3.2 Technical Staff Positions (Including ICAR Schemes)

S.N.	Name of Post	Pay Scale	B.H.	Post			Remarks
				Sanctioned	Filled	Vacant	
1	Senior Technical Assistant	39900-126600	2006-3	1	1	0	ICAR
2	Technical Assistant	-	-	-	-	-	-
3	Agriculture Officer	39900-126600	12138	2	1	1	Plan
			12014-05	1	1	0	Plan
4	Agriculture Assistant	25500-81100	12237	2	2	0	Plan
		25500-81100	12046/01	1	1	0	Plan
		25500-81100	5014/03	5	4	1	Non-Plan
		25500-81100	5228	1	1	0	Non-Plan
		25500-81100	12041	1	1	0	Plan
		25500-81100	12014-05	1	0	1	Plan
5	Tractor Driver	-	-	-	-	-	-
6	Lab Technician	29200-92300	12237	1	1	0	Plan
		29200-92300	12138	2	2	0	Plan
		29200-92300	12097	1	1	0	Plan
7	Assistant Instructor	-	-	-	-	-	-
8	Field Assistant	25500-81100	12138	2	1	1	Plan
9	Store Keeper	25500-81100	12138	1	1	0	Plan
10	Plant Operator	19900-63200	12244	1	1	0	Plan
11	Agriculture Supervisor	39900-126600	5228	2	2	0	Non-Plan

### 3.3 Administrative and Supporting Staff Positions (Including ICAR Schemes)

S.N.	Name of Post	Pay Scale	B.H.	Post			Remarks
				Sanctioned	Filled	Vacant	
1	Asst. Adm. Officer	44900-142400	12237	1	0	1	Plan
2	Office Superintendent	-	-	-	-	-	-
3	Head Clerk	-	-	-	-	-	-
4	Senior Clerk	25500-81100	12237	3	3	0	Plan
		25500-81100	12138	1	1	0	Plan
		25500-81100	5228	1	1	0	Non-Plan
5	Junior Clerk	19900-63200	12237	5	4	1	Plan
6	Peon/Lab Boy	14800-47100	12237	1	0	1	Plan
7	Lab Boy	14800-47100	12014-05	3	3	0	Plan
			12237	2	0	2	Plan
8	Mazdur/ Supporting Staff	14800-47100	2044	1	1	0	ICAR
9	Stenographer	39900-126600	12237	1	1	0	Plan
10	Sweeper	14800-47100	12237	1	1	0	Plan

### 3.4 Budget: Headwise Sanctioned Grant and Utilization

S.N.	Name of the Scheme and Centre	Budget DDO-329	Sanctioned Grant (Rs. in Lakh)				Expenditure (Rs. in Lakh)				Income (Rs. in Lakh)
			Pay Allow	Rec.	Non Rec.	Total	Pay Allow	Rec.	Non Rec.	Total	
PLAN											
1	Strengthening Department of Biotech Navsari (ASPEE) (Merged with 027/12969 From 2017-18)	12097	17.07	17.00	0.00	34.07	17.05	16.77	0.00	33.82	0.00
2	Research in Agro-Forestry, Navsari (ASPEE)	12130	0.00	8.95	0.00	8.95	0.00	8.95	0.00	8.95	0.17
3	Strengthening of Horticulture Polytechnic, Navsari (ASPEE)	12138	129.13	34.00	1.57	164.70	128.87	34.00	1.28	164.16	6.41
4	Strengthening of Horti Faculty Dean Navsari (ASPEE)	12237	729.00	128.50	0.00	857.50	728.70	128.50	0.00	857.20	109.70
5	Estt of Mali Traning Navsari (ASPEE)	12508	0.00	1.40	0.00	1.40	0.00	1.40	0.00	1.40	0.00
6	Land Scaping at University Campus, Navsari (ASPEE)	12712-2	0.00	24.42	0.00	24.42	0.00	24.40	0.00	24.40	4.77
7	Esttlishment of Fruit & Vegetable Packaging Research Center at Navsari	12940	1.02	7.00	0.00	8.02	1.02	6.99	0.00	8.00	1.16
8	Genetic Enhancement of Niche Crops of SG Conve & Bio-Techno, Navsari (ASPEE)	12946-E	0.02	2.50	0.00	2.52	0.01	2.49	0.00	2.51	0.00
9	Strengthening of College of Forestry, Navsari (ASPEE)	12952	393.90	63.53	0.00	457.43	393.54	63.53	0.00	457.07	0.41
10	Esta of Pract Train Centre of Horti Student for High-Tech Horti, Navsari (ASPEE)	12970	0.00	20.50	0.00	20.50	0.00	20.50	0.00	20.50	0.21
11	Tissue Culture & Fruit Crops, Paria (Marged With 029/12092 From 2017-18)	12014-05	29.43	12.00	0.00	41.43	29.33	11.97	0.00	41.29	0.00
12	Reaserch in Vegetable Crops Under Protected Conditions Phase-II	12017	21.50	19.00	0.00	40.50	21.11	18.98	0.00	40.10	1.52

13	Strategies to Mitigate The Impact of Climate Change Navsari	12019	36.05	7.00	0.00	43.05	36.00	6.97	0.00	42.97	0.67
14	Development of Hybrids in Vegetable Especially in Okra, Brinjal, Tomato and Capsicum, Navsari	12021	17.75	23.00	0.00	40.75	17.71	23.00	0.00	40.71	1.64
15	Strengthening of Organic Farming Cell, Navsari	12022	11.00	13.75	0.00	24.75	10.97	13.75	0.00	24.72	11.70
16	Research and Development in Fruit Crops (12095, 12137 MERGED)	12025	33.95	33.00	1.00	67.95	33.81	33.00	0.98	67.79	3.59
17	Development of Bamboo Resource Centre, Navsari	12029	15.23	25.00	5.65	45.88	15.13	25.00	4.84	44.96	0.56
18	A Pilot Project for Development of Aqua Agro Forestry Model for Coastal Area of South Gujarat, Dandi	12030	8.90	5.00	0.00	13.90	8.80	5.00	0.00	13.80	0.15
19	Determination of Carbon Sequestration Potential of Forest Tree Species of South Gujarat.	12036	8.95	8.00	0.00	16.95	8.90	7.98	0.00	16.88	0.00
20	Advanced Technology Center of Soil Less System For Production of Various Crops at Navsari.	12041	15.83	10.30	0.45	26.58	15.80	10.30	0.42	26.52	0.20
21	Establishment of Res Project on Horticulture, Navsari (ASPEE)	12046-01	11.60	21.92	0.00	33.52	11.56	21.91	0.00	33.48	1.81
22	Establishment of Forest Biodiversity Conservation Center	12053	1.70	8.00	0.35	10.05	1.65	8.00	0.27	9.92	0.00
23	Popularajhinga Melia Kammpojhita Based Agroforestry Systems in Gujarat Through the Production of Quality Planting Materiala	12054	4.55	8.00	0.00	12.55	4.48	8.00	0.00	12.48	0.24
24	Regeneration Techniques for Lesser Known and Threatened Tree Species of South Gujarat (ASPEE Horti., Navsari)	12065	8.90	6.48	0.50	15.88	8.83	6.47	0.45	15.75	0.10
25	Development of Industrial Agroforestry Models for South Gujarat Region (ASPEE, Horti., Navsari)	12066	8.25	2.26	0.60	11.11	7.89	2.24	0.60	10.73	0.09



		12071	6.05	0.00	0.00	0.00	6.00	0.00	6.00	0.00
26	Establishment of Department of Wildlife Science, (College of Forestry, ACHF, NAU, Navsari)									
27	Strengthening of College of Forestry (College of Forestry, ACHF, NAU, Navsari)	12073	1.20	0.00	0.00	1.16	0.00	0.00	1.16	0.00
28	PG Programme on PHT of Horticultural Crops	12244	53.72	30.50	0.00	84.22	53.60	30.45	84.05	0.21
29	Fellowship for PG Studies of Various Faculties, ASPEE Horti., Navsari	12703-A	0.00	3.50	0.00	3.50	0.00	3.50	3.50	0.00
30	Centre of Excellence on Post Harvest, Navsari (ASPEE)	12935	0.00	20.19	0.00	20.19	0.00	19.94	19.94	0.34
31	Modernizing the Student Facilities at Different Campus, ASPEE Horti. College, Navsari	12967/OB	0.00	1.75	0.00	1.75	0.00	6.45	6.45	0.00
32	Scheme for Fellowship to UG Students of Various Faculties, ASPEE Horti. College, Navsari	12972/OA	0.00	6.45	0.00	6.45	0.00	1.00	1.00	0.00
<b>Total</b>			<b>1564.70</b>	<b>572.89</b>	<b>10.12</b>	<b>2147.71</b>	<b>1561.93</b>	<b>571.45</b>	<b>8.85</b>	<b>2142.22</b>
				<b>NON PLAN</b>						
33	Marit to Poor Boys Fellowship Scholarship ASPEE, Navsari	4801-A	0.00	0.09	0.00	0.09	0.00	0.00	0.00	0.00
34	Scheme for Research in Fruit Crop (Horticulture), Navsari	5014-03	37.00	4.55	0.00	41.55	25.21	0.09	25.29	5.56
35	Establishment of Poly School ASPEE, Navsari	5228	37.90	0.11	0.00	38.01	37.07	4.55	41.62	0.03
36	Department of Horticulture, Navsari	6503-03	73.00	0.00	0.00	73.00	72.93	0.11	73.04	0.00
<b>Total</b>			<b>147.90</b>	<b>4.75</b>	<b>0.00</b>	<b>152.65</b>	<b>135.21</b>	<b>4.74</b>	<b>0.00</b>	<b>139.95</b>
				<b>ICAR</b>						
37	Aicrp on Tuber Crops, ASPEE	2006-03	21.40	16.87	0.00	38.27	18.24	16.87	35.11	1.94
38	Schedule Cast Sub Plan ( SCSP )	02006-03-01	0.00	2.01	0.60	2.61	0.00	1.07	1.67	0.00
39	Aicrp on Palms (COCONUT)	2044	16.00	9.91	0.00	25.91	14.25	9.91	24.16	11.42
40	Aicrp on Palms (TSP)	02044-A	0.30	1.45	0.00	1.75	0.00	1.45	1.45	0.00
41	Aicrp Veg Crops, Principal, ASPEE College, Navsari	2058	0.00	2.67	0.00	2.67	0.00	2.02	2.02	0.18
42	Recent Trends in Sustainable Utilization, Value Addition and	2140	0.00	2.79	0.00	2.79	0.00	0.31	0.31	0.00



Conservation of Non-Timber Forest Genetic Resources (NTFGRS)												
43	Icar Farm Receipt 37.5%	2044-R	0.00	4.02	0.70	4.72	0.00	0.18	0.00	0.18	0.00	0.00
44	Icar Farm Receipt 37.5%	2006-03-R1	0.00	0.63	0.00	0.63	0.00	3.17	0.00	3.17	0.00	0.00
45	Icar Farm Receipt 37.5%	2058-0R	0.00	0.58	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00
46	Aicrp on Floriculture	2100	0.00	3.83	0.00	3.83	0.00	3.57	0.00	3.57	0.00	0.00
47	Tribal Sub Plan (TSP)	2100/01	0.00	4.50	1.00	5.50	0.00	2.49	0.00	2.49	0.00	0.00
<b>Total</b>			<b>37.70</b>	<b>49.25</b>	<b>2.30</b>	<b>89.26</b>	<b>32.49</b>	<b>41.02</b>	<b>0.60</b>	<b>74.12</b>	<b>13.53</b>	
<b>NSS</b>												
48	N.S.S. Scheme, ASPEE College & Horticulture Poly., Navsari	4802/A	0.00	0.35	0.00	0.35	0.00	0.21	0.00	0.21	0.00	0.00
49	N.S.S. Scheme	4802/B	0.00	0.27	0.00	0.27	0.00	0.10	0.00	0.10	0.00	0.00
<b>Total</b>			<b>0.00</b>	<b>0.63</b>	<b>0.00</b>	<b>0.63</b>	<b>0.00</b>	<b>0.30</b>	<b>0.00</b>	<b>0.30</b>	<b>0.00</b>	
<b>ICAR R.F</b>												
50	B-1 (Rhsp) Seed Production, Agri Crops & Fisheries, (Rf) ASPEE College, Navsari	2704-55-B1	0.00	15.62	0.00	15.62	0.00	10.05	0.22	10.27	7.39	
<b>Total</b>			<b>0.00</b>	<b>15.62</b>	<b>0.00</b>	<b>15.62</b>	<b>0.00</b>	<b>10.05</b>	<b>0.22</b>	<b>10.27</b>	<b>7.39</b>	
<b>OTHER AGENCES</b>												
51	Investi. of Major Qua. Pests and Post Har. Disease of Mango In S.Guj. and Mass Prod. of Fruit Fly Trap	14052	0.00	1.83	0.00	1.83	0.00	1.83	0.00	1.83	0.00	0.00
52	Vegetable Grafting to Mitigate Biotic and Abiotic Stresses in Vegetable Crops	14054	0.00	91.60	113.75	205.35	0.00	85.35	0.00	85.35	0.00	0.00
53	Rti Fees & Charges	18000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	ASPEE College Navsari	18006	0.00	0.00	0.70	0.70	0.00	0.00	0.69	0.69	0.00	0.00
55	Forest Resource Survey of Vyara Division, ASPEE College, Navsari	18007	0.00	0.00	3.63	3.63	0.00	0.00	3.63	3.63	0.00	0.00
56	Forest Resource Survey of Valsad Division, ASPEE College, Navsari	18008	0.00	0.00	0.92	0.92	0.00	0.00	0.90	0.90	0.00	0.00
57	Demonstration of Coastal South Gujarat Water Conservation-Dst Programme	18179-NF	5.50	6.80	0.00	12.30	3.55	8.32	0.00	11.87	5.31	
58	Performance Evaluation of Conveyor Type Hot Water System for Bitter	18196	0.00	0.70	0.00	0.70	0.00	0.70	0.00	0.70	0.00	0.00

Gourd

59	Establishment of Bio-Agent Production Laboratory for Major Pests and Diseases of Horticultural Crop	18198	0.00	4.57	26.40	30.98	0.00	0.00	9.21	9.21	0.00
60	Development of Descriptors and DUS Testing Guidelines for Eucalyptus	18206	4.79	2.47	0.00	7.25	0.15	1.22	0.00	1.37	0.00
61	Evaluate the Forchlorfenuron 01% Liq (CPPU) for Fruit Set, Retention and Post Harvest Quality of Mango	18208	0.00	0.07	2.00	2.07	0.00	0.04	1.84	1.87	0.00
62	Development of DUS Test Guidelines for Sapota (Ppv&Fra)	18217	4.25	4.75	0.00	9.00	2.38	0.69	0.00	3.07	0.00
63	Survey, Selection, Phyto-Chemical Evaluation, Molecular, Cytogenetical Characterization and Multilocation Testing of Harar in India	18218	0.00	4.31	0.00	4.31	0.00	1.41	0.00	1.41	0.00
64	Publication Cell	18219	0.00	6.80	3.70	10.50	0.00	2.46	3.42	5.88	0.00
65	Ecological Status and Socio-Economic Efficacy of Mahua Resources in Valsad District	18226	4.50	1.22	0.00	5.72	0.00	0.00	0.00	0.00	0.00
66	Wood and Morphological Characterization of Valsad Teak for Potentiality of GI Tagging	18227	6.43	0.77	0.00	7.20	0.00	0.00	0.00	0.00	0.00
67	Testing and Development of Clones and Seed Sources of Casuarina for Different Planting Environment and End Use Applications	18231	0.30	1.45	0.00	1.75	0.00	0.73	0.00	0.73	0.00
68	National Horticulture Mission ASPEE Navsari	18930/01	0.00	1.20	0.00	1.20	0.00	1.20	0.00	1.20	0.00
69	RTI Fees & Charges	18000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	Scrapt Receipt	18050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71	Bank Interest Income, ASPEE College, Navsari	18100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72	State Government Tablet Scheme (2017)	18170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73	Receipt for Penalty	18250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
<b>Total</b>			<b>25.77</b>	<b>128.54</b>	<b>151.10</b>	<b>305.40</b>	<b>6.08</b>	<b>103.95</b>	<b>19.69</b>	<b>129.72</b>	<b>5.32</b>



		WORKS									
74	Minor & Original Works at Campus / Zones, ASPEE Hort. College, Navsari	1534	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	Classified Works (ASPEE Collage) Navsari	12600-N	0.00	2.50	0.00	2.50	0.00	1.87	0.00	0.00	0.00
<b>Total</b>			<b>0.00</b>	<b>2.50</b>	<b>0.00</b>	<b>2.50</b>	<b>0.00</b>	<b>1.87</b>	<b>0.00</b>	<b>1.87</b>	<b>0.00</b>
<b>ICAR ADHOC</b>											
76	Senior/Junior Research Fallowship	15082	0.00	19.05	0.00	19.05	0.00	19.04	0.00	19.04	0.00
77	Senior/Junior Research Fallowship	15082-OR	0.00	0.22	0.00	0.22	0.00	0.00	0.00	0.00	0.00
78	Indo-Afghan Fallowship Programme	15084-OR	0.00	0.32	0.00	0.32	0.00	0.00	0.00	0.00	0.00
79	National Talent Scholarship	15086	0.00	18.54	0.00	18.54	0.00	18.54	0.00	18.54	0.00
80	Junior Research Fallowship (PGS)	15088	0.00	25.61	0.00	25.61	0.00	25.53	0.00	25.53	0.00
81	Junior Research Fallowship (PGS)	15088-R	0.00	0.43	0.00	0.43	0.00	0.09	0.00	0.09	0.00
82	Student Ready (RAW) Scheme	15097	0.00	17.46	0.00	17.46	0.00	17.46	0.00	17.46	0.00
83	Student Ready (RAW) Scheme	15097-A	0.00	2.91	0.00	2.91	0.00	0.00	0.00	0.00	0.00
84	Indo-Afghan Fallowship Programme	26096	0.00	3.19	0.00	3.19	0.00	0.68	0.00	0.68	0.00
85	Minor Works : Repair, Refurdrishing / Renovation	29028	0.00	0.00	0.81	0.81	0.00	0.00	0.00	0.00	0.00
86	1.3.1. Repair / Renovation Of Hostel	31005-OR	0.00	0.00	0.54	0.54	0.00	0.00	0.00	0.00	0.00
87	1.3.2.Repair / Renovation of Examination / Laboratories / Sports Facility / Green Initiatives	31010-OR	0.00	0.00	0.32	0.32	0.00	0.00	0.00	0.00	0.00
88	9.1.2. Strengthening of UG/PG Teaching	31028-OR	0.00	1.47	0.00	1.47	0.00	0.00	0.00	0.00	0.00
89	1.3.1. Repair / Renovation of Hostel	32005-R	0.00	0.00	0.70	0.70	0.00	0.51	0.00	0.51	0.00
90	1.3.2.Repair / Renovation of Examination / Laboratories / Sports Facility / Green Initiatives	32008-R	0.00	0.00	0.21	0.21	0.00	0.21	0.00	0.21	0.00
91	2.2.Equipment for UG & PG Laboratories / Sports Facility Green Initiatives Excluding Computer & its Peripherals	32019-R	0.00	0.00	0.51	0.51	0.00	0.00	0.50	0.50	0.00
<b>Total</b>			<b>0.00</b>	<b>89.20</b>	<b>3.10</b>	<b>92.30</b>	<b>0.00</b>	<b>82.05</b>	<b>0.50</b>	<b>82.55</b>	<b>0.00</b>

### 3.5 College Recurring Funds

S.N.	Budget	Name of The Scheme and Centre	Expenditure (Rs. in Lakh)			Income (Rs. in Lakh)
			Rec.	Non.Rec	Total	
1	9510-N-2	Nau Revolving Fund (ASPEE College) Navsari	1.19	0.00	1.19	0.00
2	9510-N-92	Horticulture Works Farm Receipt Nursery at ASPEE College	2.13	0.70	2.83	4.49
3	9510-N-93	Horticulture Works Farm Receipt at ASPEE College	9.33	0.00	9.33	11.99
4	9510-N-94	College of Forestry Bamboo Resource Center Income	10.24	0.00	10.24	21.65
5	9510-N-3	Nau Revolving Fund (Horti) , Navsari	24.97	5.82	30.79	20.72
6	9510-N-63	Revolving Fund Commercial Apiculture ASPEE Navsari	5.30	0.00	5.30	5.70
7	9510-N-64	Revolving Fund Nature and Wild Life Photography ASPEE Navsari	1.54	0.00	1.54	1.25
8	9510-N-68	NAU Revolving Fund ASPEE Navsari	0.00	0.00	0.00	0.00
9	9510-N-81	Purchase Equipment for Nursery at ASPEE College	0.00	0.00	0.00	0.20
10	9510-N-83	Certificate Course in Turfgrass Management at ASPEE College, Navsari	0.00	0.00	0.00	0.00
11	9510-N-86	Elp Unit Development of Quality Planting Material in Forestry, ASPEE College, NAU, Navsari	0.66	0.00	0.66	1.55
12	9510-N-88	College of Forestry New Revolving Budget Head 2017-18	0.76	4.88	5.63	5.51
13	9510-N-39	NAU Revolving Fund, Bio Tech Navsari	1.84	1.78	3.62	5.12
14	9510-N-47	NAU Revolving Fund, ASPEE Navsari	0.00	0.00	0.00	0.00
15	9510-N-48	NAU Revolving Fund, ASPEE Navsari	0.00	0.00	0.00	3.62
16	9510-N-50	NAU Revolving Fund, ASPEE, Navsari	3.39	0.28	3.66	1.29
17	9510-N-60	NAU Revolving Fund (ASPEE) , Navsari	1.91	1.72	3.63	5.20
<b>Total</b>			<b>63.24</b>	<b>15.18</b>	<b>78.42</b>	<b>88.28</b>

## 4. DEPARTMENTAL PROFILE

### 4.1 Department of Fruit Science

#### 4.1.1 Faculty Profile

S.N.	Name	Designation	Qualification	Date of Joining (Present Post)	Length of Service (yrs.)	Specialization	B.H.
1	Dr. V. K. Parmar	Professor & Head	Ph. D. (Horticulture)	23/08/2019	14	Horticulture	6503-3
2	Dr. R. V. Tank	Associate Professor	Ph. D. (Horticulture)	23/01/2012	26	Fruit Science	12237
3	Dr. B. M. Tandel	Associate Professor	Ph. D. (Horticulture)	11/08/2015	16	Fruit Science	6503-3
4	Dr. S. Y. Patel	Associate Professor	Ph. D. (Horticulture)	23/01/2012	27	Fruit Science	12091-2
5	Dr. Y. N. Tandel	Associate Professor	Ph. D. (Horticulture)	23/08/2019	13	Fruit Science	5014/03
6	Dr. A. K. Pandey	Assistant Professor	Ph. D. (Horticulture)	19/08/2015	7	Fruit Science	12237
7	Mrs. Dixita Prajapati	Assistant Professor	M. Sc. (Fruit Science)	24/08/2015	7	Fruit Science	6503-03
8	Dr. Tulsi Gurjar	Assistant Professor	Ph. D. (Horticulture)	29/08/2019	4	Fruit Science	12237
9	Dr. P. D. Solanki	Assistant Professor	Ph. D. (Horticulture)	12/08/2015	6	Fruit Science	12021

#### 4.1.2 Academic Activities

##### List of Courses offered by the Department (As Per 5<sup>th</sup> Deans' Committee)

B.Sc. (Hons.) Horticulture					
S.N.	Sem.	Course No.	Title	Credits	Faculty
1	I	FRT.1.1	Fundamentals of Horticulture	3(2+1)	Dr. V. K. Parmar & Dr. P. D. Solanki
2	II	FRT.2.2	Plant Propagation and Nursery Management	2(1+1)	Dr. TulsiGurjar
3	III	FRT.3.3	Temperate Fruit Crops	2(1+1)	Dr. R. V. Tank
4	IV	FRT.4.4	Tropical and Subtropical Fruits	3(2+1)	Dr. Y. N. Tandel & Mrs. DixitaPrajaapati
5	IV	FRT.4.5	Plantation Crops	3(2+1)	Dr. V. K. Parmar
6	IV	FRT.4.6	Breeding of Fruit and Plantation Crops	3(2+1)	Dr. S. Y. Patel
7	V	FRT.5.7	Orchard and Estate Management	2(1+1)	Dr. S. Y. Patel
8	V	FRT.5.8	Dry land Horticulture	2(1+1)	Mrs. DixitaPrajaapati
<b>Sub-Total</b>				<b>20 (12+8)</b>	
STUDENT READY-I: Experiential Learning Programme					
9	VII	HWE7.2	Commercial Production of Horticultural Planting Materials	10 (0+10)	Dr. TulsiGurjar Dr. N. K. Patel
		HWE: 7.2.1	Propagation and Production of Propagules	6(0+6)	Dr. N. K. Patel Dr. TulsiGurjar
		HWE: 7.2.2	Packaging and Marketing of planting materials	4(0+4)	Dr. TulsiGurjar Dr. N. K. Patel
STUDENT READY-II: Rural Horticultural Work Experience					
10	VIII	HWE. 8.5 (RHWE)	University farms (SDAU) and private Horticultural field visit of North Gujarat region	4 (0+4)	Dr. S. Y. Patel Dr. TulsiGurjar Mrs. DixitaPrajaapati
<b>Sub-Total Student Ready</b>				<b>24 (0+24)</b>	
<b>Total</b>				<b>44 (12+32)</b>	



**List of PG Courses offered by the Department  
(As Per BSMA Committee)**

<b>M.Sc. Horticulture-Fruit Science</b>						
S.N.	Sem.	Course No.	Title	Credits	Faculty	
1	Odd	FSC 501*	Tropical and dry land fruit production	2+1	Dr. Y.N. Tandel	
2	Even	FSC 502*	Subtropical and temperate fruit production	2+1	Dr. R.V. Tank	
3	Odd	FSC 503*	Biodiversity and conservation of fruit crops	2+1	Dr. A. K. Pandey	
4	Even	FSC 504	Canopy management in fruit crops	1+1	Dr. B. M. Tandel	
5	Odd	FSC 505	Propagation and nursery management for fruit crops	2+1	Dr. TulsiGurjar	
6	Even	FSC 506*	Breeding of fruit crops	2+1	Dr. A. I. Patel	
7	Odd	FSC 507	Post harvest technology for fruit crops	2+1	Dr. P. D. Solanki	
8	Even	FSC 508	Growth and development of horticultural crops	2+1	Dr. A. K. Pandey	
9	Odd	FSC 509	Biotechnology of horticultural crops	2+1	Dr. C. V. Kapadiya	
10	Even	FSC 510	Organic horticulture	1+1	Dr. P. D. Solanki	
11	Odd	FSC 511	Protected fruit culture	2+1	Dr. B. M. Tandel	
12	Odd	FSC 513	Climate management in horticultural production	1+0	Dr. S. V. Viyol	
13	Odd	FSC 591	Master's Seminar	1+0	Concern Guide	
14	Even/ Odd	FSC 599	Master's Research	0+20	Concern Guide	
<b>*Compulsory</b>			<b>Total</b>	<b>53 (22+31)</b>		

<b>Ph.D. Horticulture- Fruit Science</b>						
S.N.	Sem.	Course No.	Title	Credits	Faculty	
1	Odd	FSC 601**	Advances in breeding of fruit crops	2+1	Dr. RehanaNiyaria	
2	Even	FSC 602**	Advances in production of fruit crops	2+1	Dr. B. M. Tandel	
3	Odd	FSC 603	Advances in growth regulation of fruit crops	2+1	Dr. R. V. Tank	
4	Even	FSC 604	Genomics and bioinformatics in horticulture	2+1	Dr. K. P. Suthar	
5	Odd	FSC 605	Biotic and abiotic stress management in horticultural crops	2+1	Dr. T. R. Ahlawat	
6	Even	FSC 606	Systematics of fruit crops	2+1	Dr. Y. N. Tandel	
7	Odd	FSC 691	Doctoral Seminar-I	1+0	Concern Guide	
8	Even	FSC 692	Doctoral Seminar-II	1+0	Concern Guide	
9	Even/ Odd	FSC 699	Doctoral Research	0+45	Concern Guide	
<b>**Compulsory</b>			<b>Total</b>	<b>65 (14+51)</b>		

**PG Students Enrolled in Masters' Programme**

S.N.	Reg. No.	Name of Student	Title of the Research Programme	Major Guide
1	2020221009	Ganvit Divyangini Arvindbhai	“Effect of different colour shade nets and media on germination and growth of papaya seedlings”	Dr. Ankur P. Patel
2	2020221015	Jasani Rajeshvaridevi Rameshchandra	Effect of seed priming and organics on germination, growth and survival of Khirni [Manilkarahexandra (Roxb.)]	Dr.S. J.Patil



3	2020221005	Chaudhari Jigarkumar Sureshbhai	“Effect of mulching on growth, yield and quality of strawberry under organic condition”	Dr. P. D.Solanki
4	2020221008	Gandhi Isha Nileshkumar	“Effect of vermiwash on growth and survival of papaya seedlings”	Dr.T. R. Ahlawat
5	2020221012	Guna Raxitaben Narsinhbhai	“Effect of Nitrogen management in dragon fruit varieties under coconut plantation”	Dr. Ankur P. Patel
6	2020221029	Patel Vaibhavkumar Pramodkumar	“Effect of rootstocks on success and growth of mango softwood grafts”	Dr.C. R.Patel
7	2020221017	Khandra Riteshkumar Ramjibhai	Effect of pre-harvest treatments of Borax and Calcium chloride on yield and quality of mango (Mangifera indica L.) cv. Kesar	Dr.A. K. Pandey
8	2020221007	Dangariya Vipasha Dhirajbhai	“Response of nodes and IBA on growth and survival of semi-hardwood cuttings of passion fruit”	Dr. B. M. Tandel
9	2020221035	Silpa R. (ICAR)	“Effect of post shooting spray of organics and bunch cover on yield and quality of banana”	Dr. A. K. Pandey
10	2020221033	Roja H. S. (ICAR)	Flower and fruit morphological studies of guava varieties	Dr. Y. N. Tandel
11	2020221024	Nithya G. R. (ICAR)	Bunch management in banana cv. Grand Naine	Dr. B. M. Tandel
12	2020221006	Damini (ICAR)	Evaluation of Banana (Musa spp.) varieties for table purpose	Dr. P. K.Modi

#### PG Students Enrolled in Doctoral Programme

S.N.	Reg. No.	Name of Student	Title of the Research Programme	Major Guide
1	1020221014	Patel Nikitakumari Chandrakant	“Assessment of genetic diversity among seedling origin mango genotypes from South Gujarat”	Dr. Y. N. Tandel
2	1020221005	Desai Yashkumar Gamanbhai	Effect of pruning and plant growth regulators on flowering, yield and quality of guava	Dr. S. J. Patil
3	1020221011	Parakhiya Nikunj Vinodbhai	Influence of different biofertilizers and biostimulants on fruiting, yield and quality of mango	Dr. D. K. Sharma
4	1020221012	Parmar Bhumikaben Maganbhai	Induction of mutation in phalsa (Grewia subinaequalis L.) through chemical mutagens	Dr. C. R. Patel
5	1020221016	Prajapati Harshadkumar Amrutbhai (In-Service)	Effect of organics on growth, yield, quality and nutrient status of Strawberry	Dr. R. V. Tank
6	1020221013	Patel Chetanaben Maharbhai (In-Service)	“Effect of planting material and nutrients on growth, yield and quality of banana”	Dr. S. J. Patil
7	1020221008	Jalandra Akashbhai Ranchhodhbhai (In-Service)	“Effect of organics on growth, yield and quality of dragon fruit (Hylocereus polyrhizus)”	Dr. B. M. Tandel
8	1020221009	Limbachiya Piyush Vasantlal (In-Service)	“Effect of pruning time and nitrogen application on ber”	Dr. T. R. Ahlawat

### RAC Meetings conducted by the Department

S.N.	Meeting Details			Proceeding No. and Date		Remarks
	No.	Date of meeting	Venue			
1	13 <sup>th</sup> RAC II	01/04/2021	Swami Vivekananda Hall, ACHF	ACHF/Fruit. Sci./13th RAC Proceeding II/154/2021 dated 12/04/2021		Presentation of New Technical Programmes of 07 M.Sc. students
2	13 <sup>th</sup> RAC III	06/01/2022	Conference Hall, ACHF	---		Presentation of New Technical Programmes of 01 Ph.D.
3	14 <sup>th</sup> RAC I	28/01/2022	Conference Hall, ACHF	No. ACHF/Fruit. Sci./14 <sup>th</sup> RAC I Proc./92/2022 dated 03/02/2022		Presentation of New Technical Programmes of 07 Ph.D. and 12 M.Sc. students
4	14 <sup>th</sup> RAC II	10/02/2022	Conference Hall, ACHF	No. ACHF/Fruit. Sci./14 <sup>th</sup> RAC Proceeding II /131/2022 dated 03/03/2022		Presentation of New Technical Programmes of 04 Ph.D. and 02 M.Sc. students
5	14 <sup>th</sup> RAC III	28/03/2022	Conference Hall, ACHF	No. ACHF/Fruit. Sci./14 <sup>th</sup> RAC Proceeding III/206/2022 dated 18/04/2022		Presentation of New Technical Programmes of 01 Ph.D.

#### 4.1.3 Research Activities

##### Research Schemes in Operation

S.N.	Research Project	Budget Head	Year of Start	Type of Scheme	PI & Co-PI
1	Strengthening Research Activities of Fruit Crops	329/12025	2012-13	Plan Scheme	Dr. V. K. Parmar
2	Project for Research in Fruit Crops	329/5014	1965	Non Plan Scheme	Dr. B. M. Tandel
3	Establishment of Department of Horticulture	329/6503/03	-	Non Plan Scheme	Dr. V. K. Parmar

#### 1. Strengthening Research Activities of Fruit Crops (B. H. 329/12025)

##### Objectives:

- Introduction, maintenance, evaluation and characterization of new fruit crops for crop improvement.
- To develop the production technology for high yield, better quality fruits including the orchard management like high density planting, nutrition, water management, use of plant growth regulators, rejuvenation, special horticultural plant production, etc.
- To standardize rootstocks for advance technology for multiplication of true-to-type planting material for ultra high density of fruit crops.
- To undertake basic and applied multi-disciplinary research for developing climate smart technology to enhance productivity of fruit crops.
- Qualitative studies of important fruits and their post harvest studies of bio-chemical and physiological aspects such as extension of shelf life, nomination of post harvest indices in view of marketability.
- Inter disciplinary approach to develop human resources through training and demonstrations.

## 2. Project for Research in Fruit Crops (B. H. 329/5014)

### Objectives:

- To find out the optimum nutrient requirement of major horticultural crops viz., mango, sapota and coconut.
- To introduce new fruit crops for the region.
- To supply true to type planting material.
- To produce new variety this may be superior to local in mango and sapota.

## 3. Establishment of Department of Horticulture (B. H. 6503/03)

### Objectives:

- To arrange research on Horticulture and P. G. training.
- To review and coordinate the Horticulture research
- To prepare research on Horticultural crops and to implement among the different center.
- To implement results of research for Horticultural crops through wings of Extension Education of University and State Department of Agriculture.
- To arrange the short term trainings for farmers
- To guide PG students through university and research.

### Research Recommendations

S.N.	Title of Experiment and Recommendation	Name of PI / Co-PI/ Associate																																																							
1	<p><b>Evaluation of different bio fertilizers with graded chemical fertilizers for nutrient management in papaya var. Red Lady</b></p> <p>The farmers of South Gujarat growing papaya var. Red Lady are recommended to apply 60 per cent recommended dose of chemical fertilizer (120-120-150 NPK g/plant, As per the schedule given in table below) along with soil application of biofertilizers (<i>Azotobacter</i>, <i>Phosphate solubilizing bacteria</i>, <i>Potash mobilizing bacteria</i>) @ 20 ml per plant of each at the time of planting, 3 and 6months after planting for getting higher yield and net realization.</p>	Mrs. Dixita Prajapati, Dr. T. R. Ahlawat, Dr. R. T. Tank, Mr. K. A. Patel, Dr. Lalit Mahatma and Dr. S. J. Patil																																																							
	<table><tr><th rowspan="2">Time of Fertilizer application</th><th colspan="6">Application of Fertilizer</th></tr><tr><th>N (g/plant)</th><th>P (g/plant)</th><th>K (g/plant)</th><th><i>Azotobacter</i> (1 x 10<sup>8</sup>cfu/ml) (ml/plant)</th><th>PSB (1 x 10<sup>8</sup>cfu/ml) (ml/plant)</th><th>KMB (1 x 10<sup>8</sup>cfu/ml) (ml/plant)</th></tr><tr><td>At the time of planting</td><td>-</td><td>-</td><td>-</td><td>7.00</td><td>7.00</td><td>7.00</td></tr><tr><td>Two month after planting</td><td>30</td><td>30</td><td>30</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Three month after planting</td><td>-</td><td>-</td><td>-</td><td>6.50</td><td>6.50</td><td>6.50</td></tr><tr><td>Four month after planting</td><td>30</td><td>30</td><td>30</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Six month after planting</td><td>30</td><td>30</td><td>30</td><td>6.50</td><td>6.50</td><td>6.50</td></tr><tr><td>Eight month after planting</td><td>30</td><td>30</td><td>30</td><td>-</td><td>-</td><td>-</td></tr></table>	Time of Fertilizer application	Application of Fertilizer						N (g/plant)	P (g/plant)	K (g/plant)	<i>Azotobacter</i> (1 x 10 <sup>8</sup> cfu/ml) (ml/plant)	PSB (1 x 10 <sup>8</sup> cfu/ml) (ml/plant)	KMB (1 x 10 <sup>8</sup> cfu/ml) (ml/plant)	At the time of planting	-	-	-	7.00	7.00	7.00	Two month after planting	30	30	30	-	-	-	Three month after planting	-	-	-	6.50	6.50	6.50	Four month after planting	30	30	30	-	-	-	Six month after planting	30	30	30	6.50	6.50	6.50	Eight month after planting	30	30	30	-	-	-	
Time of Fertilizer application	Application of Fertilizer																																																								
	N (g/plant)	P (g/plant)	K (g/plant)	<i>Azotobacter</i> (1 x 10 <sup>8</sup> cfu/ml) (ml/plant)	PSB (1 x 10 <sup>8</sup> cfu/ml) (ml/plant)	KMB (1 x 10 <sup>8</sup> cfu/ml) (ml/plant)																																																			
At the time of planting	-	-	-	7.00	7.00	7.00																																																			
Two month after planting	30	30	30	-	-	-																																																			
Three month after planting	-	-	-	6.50	6.50	6.50																																																			
Four month after planting	30	30	30	-	-	-																																																			
Six month after planting	30	30	30	6.50	6.50	6.50																																																			
Eight month after planting	30	30	30	-	-	-																																																			
2	<p><b>Response of media, fertilizer and chemicals application on growth of mango rootstock</b></p> <p>Scientists those who are working on raising of mango rootstock are recommended to sow the mango stone in poly bag having potting media of red soil + FYM + vermicompost (2:1:0.5) and to fertilize @ 75:16:75 mg NPK /Kg through soil application with foliar application of Novel organic liquid nutrients 10 ml per litre at 2<sup>nd</sup> and 3<sup>rd</sup> MAS for better germination, growth and higher survival of mango</p>	Dr. B. M. Tandel (P.I.), Dr V. K. Parmar (Co. P.I.), Dr. S. J. Patil, Dr. H. M. Patel and Mr.K. A. Patel																																																							



rootstock.

### Approved New Technical Programmes

S.N.	Title of NTP	Name of PI/Co-PI/Associate
1	Effect of fruit bagging and nutrient spray on fruit quality and shelf life of mango cv. Kesar under HDP	PI: Mrs. Bhoomika Patel, Co-PIs: Dr. Y. N. Tandel & Dr. V. K. Parmar, Asso. : Dr. Nilam R. Patel
2	Exogenous application of melatonin on growth, nutrient uptake and survival of mango seedling under salt stress regimes	PI: Dr. V. K. Parmar, Co-PIs: Mrs. Bhoomika Patel & Dr. Tulsi D. Gurjar, Asso.: Dr. B. M. Tandel & Dr. Chintan Kapadia
3	Response of Silicon on flowering, yield and quality of Sapota cv. Kalipatti	PI: Mrs. Dixita Prajapati, Co-PIs: Dr. B. M. Tandel & Dr. T. R. Ahlawat, Asso.: Dr. R. V. Tank
4	Effect of growing media on germination, growth and nutrient uptake of papaya seedlings cv. Red Lady raised in plug tray	PI: Dr. R. V. Tank, Co-PI: Dr. B. M. Tandel, Asso.: Dr. T. R. Ahlawat & Dr. A. P. Italiya
5	Response of planting density on dragon fruit ( <i>Hylocereuspolyrhizus</i> L.)	PI: Mr. K. A. Patel, Co-PI: Dr. B. M. Tandel, Asso.: Dr. V. K. Parmar
6	Effect of season on stem cutting of dragon fruit ( <i>Hylocereuspolyrhizus</i> L.)	PI: Dr. V. K. Parmar, Co-PIs: Dr. B. M. Tandel & Mr. K. A. Patel, Asso.: Mrs. Bhoomika A. Patel

#### 4.1.4 Extension Activities

##### Diagnostic visits at farmers' field

S.N.	Diagnostic Team	Name of Farmer and Address	Date
1	Dr. A. K. Pandey & Dr. N. S. Thakur	Ramesh Bhai Vill.- ChhapalDhara, Lakhnawadi (Navsari)	12/02/2022
2	Dr. B. M. Tandel	Udayanbhai Desai, Vill.- Malwada, Ta.- Chikhli, Dist- Navsari	20/04/2021
3	Dr. B. M. Tandel	Dr. Parimal Lad, Vill.- Ugat, Ta.- Navsari, Dist- Navsari	05/07/2021
4	Dr. B. M. Tandel	Dharmeshbhai Patel, Khapariya, Ta.- Gandevi, Dist- Navsari	24/12/2021
5	Dr. B. M. Tandel	Ganpatbhai Chauhan, Ranveri, Ta.- Chikhli, Dist- Navsari	11/01/2022
6	Dr. B. M. Tandel	Pareshbhai Patel, Hansapore, Ta.- Jalalpore, Dist- Navsari	20/03/2022
7	Dr. Y. N. Tandel	Krunalbhai Patel, Vill.- Binwada, Dist- Valsad	29/05/2021
8	Dr. Y. N. Tandel	Dineshbhai Chhotubhai Patel, Vill.- Sarikhurd, Ta. Gandevi, Dist- Navsari	10/11/2021
9	Dr. Y. N. Tandel	Bharatbhai Naik, Vill.- Amalsad, Ta. Gandevi, Dist- Navsari	04/01/2022
10	Dr. Y. N. Tandel	Darmeshbhai Naik, Vill.- Amalsad, Ta. Gandevi, Dist- Navsari	04/01/2022
11	Dr. Y. N. Tandel	Pramodbhai R. Patel, Vill.- Maroli, Ta. Jalalpore, Dist- Navsari	10/01/2022
12	Dr. Y. N. Tandel	Dhirubhai B. Patel, Vill.- Panar, Ta. Jalalpore, Dist- Navsari	01/02/2022
13	Dr. Y. N. Tandel	Shaileshbhai M. Desai, Vill.- Vedchha, Ta. Navsari, Dist- Navsari	04/02/2022
14	Dr. Y. N. Tandel	Jinalbhai Naik, Vill.- Vedchha, Ta. Navsari, Dist- Navsari	04/02/2022
15	Dr. P. D. Solanki & Dr. R. A. Gurjar	Sombhai Patel Vill.- Duvada, Ta. Gandevi, Dist- Navsari	08/10/2021
16	Dr. S. Y. Patel	Parbatbhai C. Dagechiya, Madan Mohan Farm, Vill.- Athan, Nr., Police pared camp, Dandi road, Navsari	14/01/2022
17	Dr. S. Y. Patel	Mansukhbhai Naranbhai Shingala Vill.- Khadsupa, Nr., Navagam	18/03/2022
18	Dr. S. Y. Patel	Lalajibhai Devjibhai Kayada, Vill. : Kothmdi, Dandi road, Navsari	08/04/2021
19	Dr. S. Y. Patel	Ankur Jayeshbhai Patel, Vill. : Khadsupa, Nr., Navagam	18/05/2021
20	Dr. S. Y. Patel	Ashokbhai B. Polra, Vill. : Kothmdi, Dandi road, Navsari	20/05/2021

### Glimses of Diagnostic visits



### Khedut Shibir/Training organized by department

S.N.	Date	Place	Name of activity	Name of Faculty
1	15/07/2021	ATMA, Navsari	Training on scientific cultivation of mango and sapota	Dr. B. M. Tandel
2	16/07/2021	ATMA, Navsari	Problem and solution of mango cultivation	Dr. B. M. Tandel
3	16/07/2021	SSK, Navsari	Problem and solution of mango cultivation	Dr. B. M. Tandel
4	28/07/2021	FTC, Navsari	Training on scientific cultivation of mango and sapota	Dr. B. M. Tandel
5	13/08/2021	FTC, Navsari	Training on scientific cultivation of mango and sapota	Dr. B. M. Tandel
6	17/09/2021	FTC, Navsari	Training on scientific cultivation of mango and sapota	Dr. B. M. Tandel
7	22/09/2021	FTC, Navsari	Training on problem and solution in mango and sapota	Dr. B. M. Tandel
8	28/09/2021	FTC, Navsari	Training on problem and solution in mango and sapota	Dr. B. M. Tandel
9	07/10/2021	FTC, Navsari	Training on scientific cultivation of mango and sapota	Dr. B. M. Tandel
10	08/10/2021	KVK, Navsari	Problem and solution of mango and Sapota	Dr. B. M. Tandel
11	11/10/2021	KVK, Vyara	Organic farming in fruit crops	Dr. B. M. Tandel
12	06/01/2022	FTC, Navsari	Training on problem and solution in mango and sapota	Dr. B. M. Tandel
13	20/01/2022	FTC, Navsari	Training on scientific cultivation of mango and sapota	Dr. B. M. Tandel
14	28/01/2022	FTC, Navsari	Training on scientific cultivation of mango and sapota	Dr. B. M. Tandel
15	04/02/2022	FTC, Navsari	Training on problem and solution in mango and sapota	Dr. B. M. Tandel
16	11/02/2022	FTC, Navsari	Training on scientific cultivation of mango and sapota	Dr. B. M. Tandel
17	10/03/2022	FTC, Navsari	Training on problem and solution in mango and sapota	Dr. B. M. Tandel
18	28/02/2022	Nagdhara	KhedutShibir	Dr. B. M. Tandel

#### 4.1.5 Production of Planting Materials

S.N.	Planting Material	Crop and Cultivar	Quantity
1	Cutting	Dragon fruit: Red and White flesh	3428
2	Grafts	Mango: Kesar, Totapari, Sonpari, Rajapuri, Dashehari, Amrapali, Ratna	8638
		Sapota : Kalipatti	1740
		Guava:	524
		Lime:	122
		Rose apple: White and Red	54
3	Seedlings	Coconut: DxT-F2	3176
		Rayan : Local	1915
		Phalsa : Local	07
		Citrus: Kagdi Lime	87
		Vegetable seedlings: Brinjal, Tomato, Onion, Cabbage etc.	107575

#### Planting Material Production Plots



Coconut seedlings



Dragon fruit cutting



Rayan seedlings



Custard apple seedlings





## 4.2 Department of Vegetable Science

### 4.2.1 Faculty Profile

S.N.	Name	Designation	Qualification	Date of Joining (Present Post)	Length of Service (yrs.)	Specialization	B.H.
1	Dr. S. N. Saravaiya	Professor & Head	Ph.D. (Horticulture)	15/06/2010	33	Vegetable Science	12237
2	Dr. N. B. Patel	Professor	Ph.D. (Horticulture)	15/06/2010	30	Vegetable Science	12017
3	Dr. C. G. Intwala	Professor (Pl. Breeding)	Ph.D. (Genetics & Pl. Breeding)	17/11/2021	33	Plant Breeding	12952
4	Dr. D. R. Bhandari	Professor	Ph.D. (Horticulture)	23/08/2019	27	Vegetable Science	12237
5	Dr. A.I. Patel	Assistant Professor	Ph.D. (Genetics & Pl. Breeding)	14/06/2010	12	Pl. Breeding & Genetics	12237
6	Dr. J.M. Vashi	Assistant Professor	Ph.D. (Vegetable Science)	28/10/2010	12	Vegetable Science	12237
7	Dr. N.K. Patel	Assistant Professor	Ph.D. (Vegetable Science)	11/02/2009	13	Vegetable Science	12237
8	Dr. Sanjeev Kumar	Assistant Professor	Ph.D. (Vegetable Science)	28/01/2013	9	Vegetable Science	12017
9	Mrs. Hetal R. Rathod	Assistant Professor	M.Sc. (Horticulture) Vegetable Science	11/08/2015	6	Vegetable Science	12021
10	Dr. Himani B. Patel	Assistant Horticulturist	Ph.D. (Vegetable Science)	26/08/2019	3	Vegetable Science	2006-3

### 4.2.2 Academic Activities

#### List of Courses offered by the Department (As Per 5<sup>th</sup> Deans' Committee)

B. Sc. (Hons.) Horticulture						
S.N.	Sem.	Course No.	Title	Credits	Faculty	
1	I	VEG. 1.1	Tropical and Sub-tropical Vegetable Crops	3(2+1)	Dr. N. K. Patel	
2	III	VEG. 3.2	Temperate Vegetable Crops	2(1+1)	Dr. J. M. Vashi	
3	III	VEG. 3.3	Precision Farming and Protected Cultivation	3(2+1)	Dr. N. B. Patel	
4	IV	VEG. 4.4	Spices and Condiments	3(2+1)	Dr. J. M. Vashi	
5	V	VEG. 5.5	Potato and Tuber crops	2 (1+1)	Dr. Himani B. Patel	
6	V	VEG. 5.6	Breeding of Vegetable, Tuber and Spice Crops	3(2+1)	Dr. A. I. Patel	
7	VI	VEG. 6.7	Seed Production of Vegetable, Tuber and Spice Crops	3(2+1)	Dr. N. K. Patel	
8		HWE: 7.1	Protected Cultivation of High Valued Horticultural Crops	10 (0+10)		
		HWE:7.1.1	Production of High Valued Crops	6(0+6)	Dr. Sanjeev Kumar	
		HWE:7.1.2	Packaging and Marketing of High Valued Horticultural Crops	4(0+4)	Dr. Sanjeev Kumar	
9	VII	HWE: 7.2	Commercial Production of	10 (0+10)		



			Horticultural Planting Materials		
		HWE: 7.2.1	Propagation and Production of Propagules	6(0+6)	Dr. N. K. Patel
		HWE: 7.2.2	Packaging and Marketing of Planting Materials	4(0+4)	Dr. N. K. Patel
10	VIII	RHWE. 8.2	Educational Tour	2 (0+2)	Dr. J. M. Vashi & Dr. Himani B. Patel
<b>Total</b>				<b>39 (12+27)</b>	

### List of PG Courses Offered by the Department

#### M. Sc. (Horticulture): Vegetable Science

S.N.	Sem.	Course No.	Title	Credits	Faculty
1	Odd	VSC -501	Production Technology of cool season vegetable crops	3 (2+1)	Dr. N. B. Patel
2	Even	VSC 502*	Production Technology of Warm Season Vegetable Crops	3(2+1)	Dr. N. B. Patel
3	Odd	VSC 503*	Breeding of Vegetable Crops	3(2+1)	Dr. A. I. Patel
4	Even	VSC 504*	Growth and Development of Vegetable Crops	3(2+1)	Dr. N. B. Patel
5	Odd	VSC 505	Seed Production Technology of Vegetable Crops	3(2+1)	Dr. N. K. Patel
6	Even	VSC 506	Systematics of Vegetable Crops	2(1+1)	Dr. S. N. Saravaiya
7	Odd	VSC 507	Production Technology of Underexploited Vegetable Crops	2(1+1)	Dr. N. B. Patel
8	Even	VSC 508	Organic Vegetable Production Technology	2(1+1)	Dr. Sanjeev Kumar Dr. A. R. Kaswala
9	Odd	VSC 509	Fundamentals of Processing of Vegetables	3(2+1)	Dr. J.M Mayani
10	Even	VSC-512	Production of spice crops	3 (2+1)	Dr.J. M.Vashi
11	Odd	ABM-551	Vegetable Production and Post harvest management	2 (2+0)	Dr.J. M.Vashi
12	Even/Odd	VSC 591	Master's Seminar	1(1+0)	Major Guide
13	Even/Odd	VSC 599	Master's Research	20(0+20)	Major Guide
<b>*Compulsory</b>		<b>Total</b>		<b>50 (20+30)</b>	

#### Ph. D. (Horticulture): Vegetable Science

S.N.	Sem.	Course No.	Title of Course	Credits	Faculty
1	Odd	VSC 601**	Advances in Vegetable Production	3 (2+1)	Dr. S. N. Saravaiya
2	Even	VSC 602**	Advances in Breeding of Vegetable Crops	3 (2+1)	Dr. A. I. Patel
3	Odd	VSC 603**	Protected Cultivation of Vegetable Crops	2 (1+1)	Dr. N. B. Patel
4	Even	VSC 604**	Biotechnology in Vegetable Crops	3 (2+1)	Dr. C.V. Kapadia
5	Odd	VSC 605	Seed Certification, Processing and Storage of Vegetable Crops	3 (2+1)	Dr. Sanjeev Kumar
6	Even	VSC 606	Abiotic Stress Management in Vegetable Crops	3 (2+1)	Dr. N. B. Patel
7	Even/Odd	VSC 691	Doctoral Seminar - I	1 (1+0)	Major Guide
8	Even/Odd	VSC 692	Doctoral Seminar - II	1 (1+0)	Minor Guide
9	Even/Odd	VSC 699	Doctoral Research	45 (0+45)	Major Guide
<b>**Compulsory</b>		<b>Total</b>		<b>64 (13+51)</b>	

### PG Students Enrolment in Masters' Programme

S.N.	Reg. No.	Name of Student	Title of the Research Programme	Major Guide
1	2020221011	Ghadiya Pragati Bhaveshbhai	Effect of pre-harvest spray coating of aloe vera pulp and packaging on postharvest quality of radish microgreens	Dr. N. K. Patel
2	2020221037	Sundesha Hareshkumar Jayrupji	Effect of bio-stimulants on growth, yield and quality of clusterbean ( <i>Cyamopsistetragonoloba</i> (L.) taub.)	Dr. N. K. Patel
3	2020221003	Chaudhari Jinalben Shaileshbhai	Effect of mulching and crop cover on growth, flowering and yield of Muskmelon ( <i>Cucumismelo</i> L.)	Dr. S. S. Masaye
4	2020221014	Italiya Rushit Hareshbhai	Varietal improvement through L x T programme in brinjal	Dr. S. Y. Patel
5	2020221020	Mangi Lal (Icar)	Effect of spacings on growth, yield and quality of Knol-khol ( <i>Brassica oleracea</i> var. <i>gongylodes</i> L.) varieties	Dr. K. D. Desai
6	2020221025	Parmar Mulrajsinh Rameshbhai	Effect of pinching and spacing on growth, yield and quality of okra	Dr. N. B. Patel
7	2020221028	Patel Riddhi Hitesh	Effect of humic acid on okra cultivars	Dr. V. K. Parmar
8	2020221032	Rathod Dikshaben Pankajbhai	Genetic diversity analysis in brinjal ( <i>Solanummelongena</i> L.) through agromorphological and biochemical characterization	Dr. Mangaldeep Sarkar
9	2020221034	Shridhar Ramesh Emmi (Icar)	Genetic diversity analysis in cucumber ( <i>Cucumissativus</i> L.) through agromorphological characterization	Dr. Mangaldeep Sarkar
10	2020221041	Tandel Twinkle Anilbhai	Genetic diversity analysis in tomato ( <i>Solanumlycopersicum</i> L.) through agromorphological and biochemical characterization	Dr. Mangaldeep Sarkar

### PG Students Enrolment in Doctoral Programme

S.N.	Reg. No.	Name of Student	Title of the Research Programme	Major Guide
1	1020221003	Barot Dharaben Champaklal	Heterosis, combining ability and stability analysis over environments in okra	Dr. N. B. Patel
2	1020221004	Chaudhari Vishalkumar M.	Effect of mulching and fruit thinning on the growth, flowering, yield and quality of watermelon ( <i>Citrulluslanatus</i> L.)	Dr. S. S. Masaye
3	1020221006	Ankitkumar Ramjibhai Gadhiya (In -Service)	Influence of glazing material and sowing time on off seasonal cowpea under low tunnel	Dr. N. B. Patel
4	1020221007	Jadav Niteshbhai Karamchandbhai (In -Service)	Effect of different organics on growth, yield and quality of Elephant foot yam	Dr. V. K. Parmar
5	1020221010	Panchal Bhakti Bharatkumar (In -Service)	Effect of growth regulators and apical pinching on growth, yield and quality of okra	Dr. D. R. Bhandari
6	1020221017	Sankhla Pintukumar Mohanji (In -Service)	Effect of transplanting time and varieties on growth, yield and quality of Knolkhol	Dr. V. K. Parmar
7	1020221018	Shrilatha K. A.	Morpho-biochemical characterization and genetic diversity assessment in Snapmelon	Dr. V. K. Parmar

### RAC Meetings conducted by the Department

S.N.	Meeting Details			Proceeding No. and date	Remarks
	No.	Date of meeting	Venue		
1	Special RAC	27/09/2021	Swami Vivekananda Hall, ACHF, NAU, Navsari	No. ACHF/Veg. Sci./Sp.RAC (M. Sc.)/Proc./Navsari.Dt.28/09/2021	Two M.Sc. students presented their outline of new technical research programme
2	13 <sup>th</sup> RAC Part II	03/04/2021	Swami Vivekananda Hall, ACHF, NAU, Navsari	No. ACHF/Veg. Sci./13th RAC (M.Sc.)/Proc./6019-24/2021 Navsari. Dt. 06-07/04/2021	Six M.Sc. students presented their outline of new technical research programme
3	13 <sup>th</sup> RAC Part III	16/04/2021	Online	No. ACHF/Veg. Sci./13 <sup>th</sup> RAC/Proc./Navsari. Dt. 19/04/2021	One M.Sc. and one Ph.D students presented their outline of new technical research programme

### 4.2.3 Research Activities

#### Research Schemes in Operation

S.N.	Research Project	Budget Head	Year of Start	Type of Scheme	PI & Co-PI
1	Research in vegetable crops under protected conditions-Phase-II	12017	2012-13	Development Charges	Dr. N. B. Patel & Dr. Sanjeev Kumar
2	Research and Development in Vegetable Crops (12013 Merged)	12021	2012-13	Development Charges	Dr. A. I. Patel
3	AICRP on Tuber Crops	2006-3	1994-95 (Waghai) 2006 (Navsari)	ICAR	Dr. Himani B. Patel
4	AICRP on Vegetable Crops Voluntary Centre	2058	2010-11	ICAR	Dr. J. M. Vashi
5	Vegetable grafting to mitigate biotic and abiotic stresses in vegetable crops	14054	2019-20	RKVY	Dr. Sanjeev Kumar, Dr. P. R. Patel, Dr. N. B. Patel, Mr. Kirti Bardhan & Dr. A. R. Kaswala
6	Revolving Fund	9510-N- 93	2020-21	RF	Dr. N. K. Patel

#### Objectives of the schemes

##### 1. Research in Vegetable Crops under Protected Conditions Phase-II (BH: 12017)

###### Objectives:

- To identify cultivars ideal for protected cultivation.
- To standardize the Production technology for vegetable crops under protected conditions.
- To train and demonstrate farmers in developed technologies.

##### 2. Research and Development in Vegetable Crops (BH: 12021)

###### Objectives:

- To develop high yielding varieties/hybrids with resistant to pest and diseases in vegetable crops.
- To develop production technology in different vegetable crops.
- Quality seed/planting material production of varieties/hybrids.



### 3. AICRP on Tuber Crops (BH: 2006-3)

#### Objectives:

- Collection of germplasm of tuber crops from different region of the country particularly from the tribal/hilly areas and maintaining them as field gene bank
- Evaluation of germplasm for economically important traits including high yield, starch, carotene, short duration, tolerance/resistance to biotic and abiotic stress and sharing of promising entries among the centers
- Carrying out regional/location specific research to identify improved high yielding varieties suitable to different agro-climatic conditions
- Standardization of suitable agro-techniques and cropping systems for improved varieties of different tuber crops in different regions, so as to enhance the productivity
- Evolve suitable and effective management tactics for major pests and disease of tuber crops
- Popularize and create awareness on the importance and nutritional aspects of major tuber crops
- Production and supply of quality planting materials of major tuber crops in liaison with State Agri/Horti. Departments and voluntary agencies like KVKs/NGOs

### 4. AICRP on Vegetable Crops (BH: 2058)

#### Objectives:


- Evaluation of different varieties and hybrids against biotic and abiotic stress in different vegetable crops.

### 5. Vegetable grafting to mitigate biotic and abiotic stresses in vegetable crops

#### Objectives:

- To screen and identify potential rootstocks against biotic and abiotic stresses in vegetable crops.
- To use resistant/tolerant rootstocks for commercial production of vegetable grafts.
- To impart training and develop entrepreneurship among greenhouse vegetable growers and students as well as youth.
- To generate an additional income by sale of grafts of important greenhouse vegetable crops

### Research Recommendations

S.N.	Title of Experiment and Recommendation	Name of PI /Co-PI/Associate
1	<p><b>Response of okra to foliar application of Novel Organic Liquid Nutrients and Micronutrients</b></p> <p>Farmers of south Gujarat growing <i>kharif</i> okra are recommended to apply foliar spray of 1.5 % (150ml/10 litre water) Novel Organic Liquid Nutrients at 30, 45 and 60 DAS along with recommended dose of fertilizer (100-50-50 N-P-K kg/ha) to obtain higher yield and net return.</p> 	Dr. J. M. Vashi, Dr. S. N. Saravaiya, Dr. A. I. Patel & Dr. B. N. Chaudhari
2	<p><b>Effect of sowing dates and spacing on off season okra</b></p> <p>Farmers of south Gujarat are recommended to cultivate off season okra by sowing in 2<sup>nd</sup> week of October with spacing of 45 cm x 10 cm to obtain higher profit.</p>	Dr. B. N. Chaudhari, Dr. J. M. Vashi & Dr. N. B. Patel

### 3 Effects of boron and molybdenum on nodulation, growth and yield of cowpea (*Vigna unguiculata* L. Walp.).

Farmers of south Gujarat growing summer cowpea are recommended to give seed treatment of molybdenum@2mg/l (Ammonium molybdate@2.40 mg/l) for 24 hours prior to sowing followed by foliar spray of boron@4mg/l (Boric acid @ 22.88 mg/l) at 30, 45 and 60 DAS to obtain higher pod yield. Moreover, seed treatment of molybdenum 4 mg/l increases nodulation.



Mrs. Hetal R. Rathod, Dr. N. K. Patel & Dr. A. R. Kaswala

### 4 Release proposal for okra variety NOL-17-05 [PurnaRakshak]

Okra growing farmers of south Gujarat region are advised for cultivation of okra variety NOL-17-05 (GNO-1: PurnaRakshak). The average fruit yield of okra variety NOL-17-05 (GNO-1: PurnaRakshak) is 12.72 t/ha. It exhibited overall yield advantages of 10.70 %, 13.52 % and 12.59 % in *Kharif* season over the check varieties GAO-5, PusaSawani and GO-6, respectively. It matures within 89-112 days (medium group), having good in fruit size and plant structure. It has high yield potential and moderately resistant against YVMV, Powdery mildew, ELCV disease as well as moderately resistant against pod borer, jassid and whitefly.



Dr. A. I. Patel and his co-worker

### Approved New Technical Programmes

S.N.	Title of NTP	Name of PI/Co-PI/Associate
1	IET on Elephant Foot Yam (AICRP)	PI: Dr. Himani B. Patel Co- PI: Mr. G. B. Desai Asso.: Dr. A. I. Patel
2	High Density Planting in Elephant Foot Yam (AICRP)	PI: Dr. Himani B. Patel Co- PI: Mr. G. B. Desai Asso.: Dr. N. B. Patel
3	High Density Planting in Greater Yam (AICRP)	PI: Dr. Himani B. Patel Co- PI: Mr. G. B. Desai Asso.: Dr. J. M. Vashi
4	Response of Indian bean to foliar application of plant growth hormones on flowering and yield	Dr. N. K. Patel Co-PI : Dr. J. M Vashi, Mrs. H. R. Rathod

## 4.2.4 Extension Activities

### *Khedut Shibir/Training organized by department*

S.N.	Date	Place	Name of activity	Name of Faculty
1	01/11/2021	Palset, Valsad	Training & Distribution of inputs to SC farmers at Palset, Valsad	Dr. Himani B. Patel, Mr. G. B. Desai
2	22/11/2021	Vadiya, Nandod, Narmada	Training & Distribution of inputs to SC farmers at Vadiya, Nandod, Narmada	Dr. Himani B. Patel,
3	31/07/2021	Online Training (Establishment of Agro ITI Centre for Agriculture and Horticulture)	Lecture delivered	Dr. J. M. Vashi
4	05/07/2021	SSK	Lecture delivered	Dr. J. M. Vashi
5	26/07/2021	SSK	Lecture delivered	Dr. J. M. Vashi
6	10/08/2021	SSK	Lecture delivered	Dr. J. M. Vashi
7	04/10/2021	SSK	Lecture delivered	Dr. J. M. Vashi
8	14/10/2021	SSK	Lecture delivered	Dr. J. M. Vashi



**At Palset, Valsad**



**At Vadiya, Nandod, Narmada**



**SSK Training**

## 4.2.5 Production of Planting Materials

S.N.	Planting material	Crop and Cultivar	Quantity
1	Vine cuttings	Sweet Potato : C-71	15,050 - vine cuttings
2	Vine cuttings	Sweet Potato : BhuKanti	5100- vine cuttings
3	Tuber	Elephant foot yam : Gajendra	3.855- tonnes
4	Corm & Cormel	Greater Yam: Hemlata	0.359- tonnes
5	Corm & Cormel	Tannia : Local	98- kg
6	Truthful Seed	Brinjal and GNRB-1	2.0 kg
7	Truthful Seed	Tomato and GT-7	1.2 kg

### 4.3 Department of Floriculture & Landscape Architecture

#### 4.3.1 Faculty Profile

S.N.	Name	Designation	Qualification	Date of Joining (Present Post)	Length of Service (yrs.)	Specialization	B.H.
1	Dr. Alka Singh	Professor and Head	Ph. D. (Horticulture)	23/09/2019	16	Floriculture & Landscape Architecture	12237
2	Dr. S. L. Chawla	Associate Professor	Ph.D. (Ag.) Horticulture	01/10/2012	14	Floriculture & Landscape Architecture	12237
3	Dr. H. P. Shah	Assistant Professor	Ph.D. (Horticulture)	14/06/2010	12	Floriculture & Landscape Architecture	12237
4	Dr. M. A. Patel	Assistant Professor	Ph.D. (Horticulture)	15/06/2010	12	Floriculture & Landscape Architecture	12237
5	Dr. G. D. Patel	Assistant Professor	Ph.D. (Horticulture)	24/01/2012	10	Floriculture & Landscape Architecture	12041
6	Dr. Dipal S. Bhatt	Assistant Professor	Ph.D. Hort. (Floriculture)	11/01/2013	9	Floriculture & Landscape Architecture	12237
7	Dr. SudhaPatil	Assistant Professor	Ph.D. Hort. (Floriculture)	17/01/2013	9	Floriculture & Landscape Architecture	12237
8	Miss. Parmeshvari K. Chaudhari	Assistant Professor	M.Sc. (Horticulture)	16/11/2016	5	Floriculture & Landscape Architecture	12046-01

#### 4.3.2 Academic Activities

##### List of Courses offered by the Department (As Per 5<sup>th</sup> Deans' Committee)

B.Sc. (Hons.) Horticulture						
S.N.	Sem.	Course No.	Title		Credits	Faculty
1	II	FLA- 2.1	Ornamental Horticulture		3 (2+1)	Dr. H. P. Shah
2	III	FLA- 6.4	Breeding and Seed Production of Flower and Ornamental Crops		3 (2+1)	Dr. Rehana Niyaria
3	IV	FLA- 4.3	Principles of Landscape Architecture		1 (0+1)	Miss. Parmeshvari Chaudhari
4	VI	FLA- 3.2	Commercial Floriculture		3 (2+1)	Dr. M. A. Patel
5	VI	FLA- 6.5	Medicinal and Aromatic Crops		3 (2+1)	Dr. G. D. Patel
Sub-Total					13 (8+5)	
STUDENT READY-I: Experiential Learning Programme						
Model No. 1	VII	HWE 7.1	Protected Cultivation of High Valued Horticultural Crops		10 (0+10)	
		HWE 7.1.1	Production of High Valued Crops		6(0+6)	Dr. H. P. Shah
		HWE 7.1.2	Packaging and Marketing of High Valued Horticultural Crops		4 (0+4)	Dr. Alka Singh





	VII	<b>HWE 7.4</b>	<b>Floriculture and Landscape Architecture</b>	<b>10 (0+10)</b>	
		HWE 7.4.1	Planning, Layout and Design of Landscape	6(0+6)	Dr. Alka Singh Dr. H. P. Shah
		HWE 7.4.2	Consultancy and Maintenance of Garden	4 (0+4)	Dr. H. P. Shah Dr. Dipal Bhatt
		<b>STUDENT READY-II: Rural Horticultural Work Experience</b>			
6	VIII	HWE. 8.3 (RHWE)	University farms (SDAU) and Visit to Horticulture Based Industries of Gujarat Region	4 (0+4)	Dr. Dipal Bhatt
<b>Sub-Total Student Ready</b>				<b>24 (0+24)</b>	
<b>Total</b>				<b>43(12+31)</b>	

**List of PG Courses offered by the Department  
(As Per BSMA Committee)**

<b>M.Sc. Horticulture- Floriculture &amp; Landscape Architecture</b>					
S.N.	Sem.	Course No.	Title	Credits	Faculty
1	Odd	FLA.501*	Breeding of flower crops and ornamental plants	3(2+1)	Dr. Sudha Patil
2	Even	FLA.502*	Production technology of cut flowers	3(2+1)	Dr. S. L. Chawla
3	Odd	FLA.503*	Production technology of loose flowers	3(2+1)	Dr. S. L. Chawla
4	Even	FLA.504*	Landscaping and ornamental gardening	3(2+1)	Dr. M. A. Patel
5	Odd	FLA.505	Protected floriculture	3(2+1)	Dr. Dipal S. Bhatt
6	Even	FLA.506*	Value addition in flowers	3(2+1)	Dr. Alka Singh
7	Odd	FLA.507*	Turfing and turf management	3(2+1)	Dr. H. P. Shah
8	Even	FLA.508	CAD for outdoor and indoorscaping	3(2+1)	Dr. Dipal S. Bhatt
<b>*Compulsory</b>				<b>Total</b>	<b>24(16+8)</b>

<b>Ph.D. Horticulture- Floriculture &amp; Landscape Architecture</b>					
S.N.	Sem.	Course No.	Title	Credits	Faculty
1	Odd	FLA 601**	Advances in breeding of flower crops	3(2+1)	Dr. SudhaPatil
2	Even	FLA 602**	Advances in flower production technology	3(2+1)	Dr. S. L. Chawla
3	Odd	FLA 603**	Advances in protected and precision floriculture	2(1+1)	Dr. Alka Singh
4	Even	FLA 604**	Advances in landscape architecture	3(1+2)	Dr. Alka Singh
5	Odd	FLA 605**	Advances in biochemistry and biotechnology of flowers	3(2+1)	Dr. Chintan Kapadia
<b>**Compulsory</b>				<b>Total</b>	<b>14(8+6)</b>

**PG Students' Enrollment in Masters Programme**

S.N.	Reg. No.	Name of Student	Title of the Research Programme	Major Guide
1	2020221002	Chaudhari Gautami Anjanbhai	Effect of IBA (Indole – 3 – butyric acid) and Ethrel on rooting of tip cuttings of <i>Murraya exotica</i> L. under polytunnel	Dr. M. A. Patel
2	2020221023	Mungalpara Rushikkumar Vithalbhair	Effect of organic mulch on growth and flowering of <i>Jasminumsambac</i> L.	Dr. S. T. Bhatt



3	2020221026	Parmar Yukti Navanitbhai	Evaluation of <i>Clitoria ternate</i> germplasm for morphological, biochemical and molecular characters	Dr. Alka Singh
4	2020221027	Patel Meetkumar Arvindbhai	Effect of saline water on bermudagrass ( <i>Cynodon dactylon</i> L.) cv. Hybrid Selection -1	Dr. M. A. Patel
5	2020221031	Prajapati Hiralbaben Natvarlal	Assessment of variability and genetic diversity in China aster [ <i>Callistephus chinensis</i> (L.) Nees]	Dr. Sudha Patil
6	2020221038	Sushmita Halagali	Characterization of different genotypes of spider lily ( <i>Hymenocallis littoralis</i> L.)	Dr. Sudha Patil
7	2020221039	Suvagiya Dipti Gopalbhai	Efficacy of biostimulants on growth, flowering and yield of <i>Dendrobium</i> cv. Sonia White	Dr. H. P. Shah
8	2020221044	Vora Saba Mahamadsafi	Response of melatonin to salinity stress in marigold ( <i>Tagetes erecta</i> L.)	Dr. H. P. Shah

#### PG Students' Enrollment in Doctoral Programme

S.N.	Reg. No.	Name of Student	Title of the Research Programme	Major Guide
1	1020221001	Anuradha Ravasaheb Thabbannavar	Screening of philodendron germplasm for pot plant, air quality, salinity tolerance and standardization of its growing media	Dr. Alka Singh
2	1020221002	Baraiya Ajay Himmatbhai	Induction of variability in golden rod ( <i>Solidago canadensis</i> L.) by physical and chemical mutagens	Dr. Dipal S. Bhatt
3	1020221015	Patel Tejalbaben Prakashbhai	Assessment of different genotypes and induction of mutation in periwinkle	Dr. Sudha Patil
4	1020221020	Sindha Mallikaben Ravjibhai	Induction of variability through mutagenesis in tuberose ( <i>Polianthes tuberosa</i> L.)	Dr. S. L. Chawla

#### RAC Meetings conducted by the Department

S.N.	Meeting Details			Proceeding No. and Date	Remarks
	No.	Date of meeting	Venue		
1	13 <sup>th</sup> RAC	01/04/2021	Swami Vivekanand Hall, ACHF	No. NAU/ACHF/FLA/RAC/7880/2021 dated 26/05/2021	Presentation of New Technical Programmes of 02 Ph.D. (In-service) and 08 M.Sc. students
2	14 <sup>th</sup> RAC	01/02/2022	Conference Hall, ACHF	No. NAU/ACHF/FLA/RAC/3021/2022 dated 03/03/2022	Presentation of New Technical Programmes of 04 Ph.D. and 08 M.Sc. students

#### 4.3.3 Research Activities

##### Focus Area

- Production technology of flower crops in open field
- Production technology of flower crops under protected cultivation
- Varietal evaluation of different flower crops
- Soilless cultivation of Ornamental crops

- Potted Ornamentals
- Value addition through dry flower technology
- Post harvest handling of flowers
- Crop improvement in different flower crops

### Research Schemes in Operation

S.N.	Research Project	Budget Head	Year of Start	Type of Scheme	PI & Co-PI
1	Establishment of Research Project on Floriculture	12046 - 1	1998-99	Plan	PI : Dr. S. L. Chawla Co-PIs: Dr. M. A. Patel & Dr. Sudha Patil
2	Establishment of Practical Training Centre of Horticulture Students for the Hi-tech Horticulture	12970	2004-05 Cont.	Plan	PI : Dr. Alka Singh Co-PI : Dr. H. P. Shah
3	Advanced Technology Centre for Soilless System for Production of Various Crops	12041	2014-2015	Plan	PI : Dr. Alka Singh Co-PI : Dr. G. D. Patel
4	Landscaping and Gardening Training Programme (Mali Talim)	12508	1998-99	Plan	Dr. H. P. Shah
5	Model Nursery for Ornamental plants	9510 N - 50 : (R F)	2007-08	NHM	Dr. M. A. Patel
6	ELP on Hi- Tech Protected Cultivation of Horticultural Crops	9510 N- 60 (RF)	2008-09 (One time grant)	ICAR	PI : Dr. Alka Singh
7	Certificate Course in Turfgrass Management	9510- N - 83	2015-16	Self-financed	PI: Dr. S. L. Chawla Co-PIs: Dr. M. A. Patel & Dr. H. P. Shah
8	AICRP on Floriculture	329/2100/00	2015	ICAR	PI: Dr. S. L. Chawla Co-PI: Dr. Dipal Bhatt

### Objectives of the schemes

#### 1. Establishment of Research Project on Floriculture (BH: 12046 – 1)

##### Objectives:

- Collection, maintenance and evaluation of germplasm of ornamental crops
- Introduction of new flower crops
- Crop improvement Standardization of agro techniques.

#### 2. Establishment of Practical Training Centre of Horticulture Students for the Hi-tech Horticulture (BH: 12970)

##### Objectives:

- To give training in the UG & PG students for hi tech horticulture.

#### 3. Advanced Technology Centre for Soilless System for Production of Various Crops (BH: 12041)

##### Objectives:

- To Standardize Soilless cultivation technology for flower crops.
- To obtain best quality flowers under soilless system.
- To develop grafting technology in various crops for quality production.
- To impart training to UG & PG Students on different aspects of hydroponics technology in various horticultural crops.

#### 4. Landscaping and Gardening Training Programme (Mali Talim) (BH: 12508)

##### Objectives:

- To impart training for the skilled Gardener.

#### 5. Model Nursery for Ornamental plants (BH: 9510 N - 50 : (R F))

##### Objectives:

- Multiplication and maintenance of different flower crops.
- To develop production technology for high value and other flower crops.
- Strengthening of P.G. research

#### 6. ELP on Hi- Tech Protected Cultivation of Horticultural Crops (BH: 9510 N - 60 : (R F))

##### Objectives:

- To train the students through experiential learning in crop management under protected cultivation of gerbera and rose cut flowers and their post harvest handling and value addition
- To develop entrepreneurship skill in the students

#### 7. Certificate Course in Turfgrass Management (BH: 9510- N - 83)

##### Objectives:

- Develop professional skill in field of turfgrass management

#### 8. AICRP on Floriculture (B.H. 329/2100/00)

##### Objectives:

- Crop improvement; Development of package and practices for flower crops; value addition in floriculture.

### Research Recommendations

S.N.	Title of Experiment and Recommendation	Name of PI /Co-PI/ Associate
1	<b>ADENIUM: GNAd-3 (Aabha)</b> The nursery men dealing with ornamental plants, landscape designers and plant lovers are recommended to grow adenium variety GNAd3 (Aabha) under polyhouse for higher commercial value as well as in garden and house plant. Adenium variety GNAd3 is novel that it bears pink coloured flowers having multi petalous flower form with dual whorls of petals (10) in each flower with prominent red streaks in the center of the petals along with good flower size, flower clusters per plant and flowering duration. It can be propagated by grafting on local pink root stock.(2021)	Professor & Head, FLA, ACHF, NAU, Navsari
2	<b>ADENIUM: GNAd-4 (Shobhita)</b> The nursery men dealing with ornamental plants, landscape designers and plant lovers are recommended to grow adenium variety GNAd-4 (Shobhita) under polyhouse for higher commercial value as well as in garden and house plant. Adenium variety GNAd4 is novel that it bears flowers having single whorl of pinkish red coloured petals (5) with dark red coloured margin and pointed tip and scores higher in terms of number of flowers/ cluster, maximum open flowers/cluster and flowers/plant/year. It can be propagated by grafting on local pink root stock. (2021)	Professor & Head, FLA, ACHF, NAU, Navsari
3	<b>Effect of different growing media on Haworthia pot plant</b> Nurserymen raising haworthia as pot culture under naturally ventilated polyhouse are recommended to grow in media comprising of Sand: Vermicompost (9:1 v/v) for better plant growth and quality. (2021)	Dr. Alka Singh, Mr. Ankit Bhandari, Dr. H. P. Shah and Dr. D. P. Patel
4	<b>Development of plant architecture through pinching and pruning in adenium pot plant under soilless growing system</b> Nursery men or farmers raising adeniums as pot culture are	Dr. Alka Singh, Mr. Ankit Bhandari and Dr. H. P. Shah

recommended to follow the pruning treatment (leaving 2 inches of new growth) after four and eight months of grafting to obtain better architecture with plant canopy as well as more flower clusters per plant and flowers per cluster. (2021)

#### 5 Effect of different growing media and foliar application of nitrogen on garlic, fenugreek and spinach

Farmers growing green garlic and spinach under polyhouse in off-season are recommended as below:

- 1) To grow green garlic: Fill tray with sand media and apply foliar spray of nitrogen @ 150 mg/l at weekly interval for higher yield with good pungency.
- 2) To grow spinach: Fill tray with sand media and apply foliar spray of nitrogen @ 150 mg/l at weekly interval for higher yield.

\*Note: For N@150mg/l =326 mg/l Urea, For N@50mg/l =108 mg/l Urea (2021)

Mr. Ankit Bhandari, Dr. Alka Singh, Dr. N. B. Patel, Dr. S. N. Saravaiya and Dr. Sanjeev Kumar

### Approved New Technical Programmes

S.N.	Title of NTP	Name of PI/Co-PI/Associate
1	Evaluation of Chrysanthemum mutants in NV polyhouse	PI : Dr. H. P. Shah Co-PIs: Dr. Alka Singh & Dr. G. D. Patel, Asso.: Dr. Vipul Parekh, Dr. A. I. Patel
2	Testing of genotypes in tuberose for cut flower	PI: Dr. S. L. Chawla Co-PIs: Dr. Sudha Patil & Dr. Dipal S. Bhatt
3	Testing of genotypes in tuberose for pot culture	PI: Dr. S. L. Chawla Co-PIs: Dr. Dipal S. Bhatt & Dr. Sudha Patil
4	Testing of new genotypes of gladiolus	PI: Dr. Sudha Patil Co-PIs: Dr. S. L. Chawla & Dr. Dipal S. Bhatt
5	Effect of plant growth retardants on growth and flowering in pot Kalenchoe	PI: Dr. S. T. Bhatt Co-PIs: Dr. Alka Singh & Dr. G. D. Patel

### 4.3.4 Extension Activities

#### Diagnostic visits at farmers' field

S.N.	Diagnostic Team	Name of Farmer and Address	Date
1	Dr. G. D. Patel	Field Visit and Survey activity of Farmers field of Dharampur Taluka during Tauktae Cyclone	24/05/2021
2	Dr. Sudha Patil	Field Visit and Survey activity of Farmers field of Valsad Taluka during Tauktae Cyclone	24/05/2021
3	Dr. H. P. Shah	Field Visit and Survey activity of Farmers field of Dharampur Taluka during Tauktae Cyclone	24/05/2021
4	Ms. Parmeshvari Chaudhari	Field Visit and Survey activity by Ms. Parmeshvari Chaudhari to Farmers field of Kaparada Taluka during Tauktae Cyclone	25/05/2021



Field Visit and Survey activity by Dr. G. D. Patel to Farmers field of Dharampur Taluka during Tauktae Cyclone on May 24, 2021



Field Visit and Survey activity by Ms. Parmeshvari Chaudhari to Farmers field of Kaparada Taluka during Tauktae Cyclone on May 25, 2021



### ***Khedut Shibir/Training organized by department***

S.N.	Date	Place	Name of activity	Name of Faculty
1	14/03/2022	CoE for Floriculture and Mango, Chanvai, Valsad	<i>PhoolpakoniKheti</i> (Cultivation of flower crops)	Dr. S. L. Chawla Dr. M. A. Patel
2	23/03/2022	Floriculture Research Farm, ACHF, NAU, Navsari	<i>PhoolpakoniVegnyanikKheti</i> (Scientific cultivation of flower crops)	Dr. S. L. Chawla Dr. Dipal Bhatt Dr. M. A. Patel Dr. Sudha Patil Dr. R. A. Gurjar



Training on Cultivation of Flower Crops



Training on Scientific Cultivation of Flower Crops

### **4.3.5 Infrastructure or Facilities created**

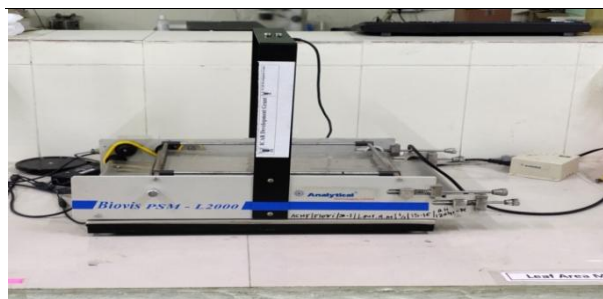
#### **Department of Floriculture & Landscape Architecture**

S.N.	Infrastructure or Facilities available	Area/No.
1	Laboratory-FLA 7 (For Biochemical work)	1
2	Laboratory-FLA 6 (For general Floriculture work)	1
3	Gardens (Rooftop garden, Zen garden, Sand garden, Strolling garden)	5
4	Laboratory-FLA 5(For Value Addition in Flowers)	1



**Laboratory - FLA 5(For Value Addition in Flowers)**





**Laboratory-FLA7(For Biochemical work)**



**College Garden**



**Roof Top Garden**

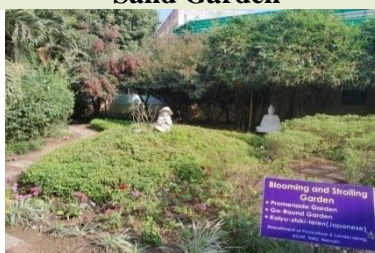
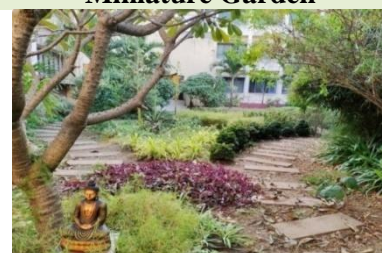
**Bio wall**



**Miniature Garden**

**Sand Garden**

**Zen Garden**



**Strolling Garden**

#### 4.3.5(A) Infrastructure or Facilities created at Research Farm in Floriculture department

S.N.	Infrastructure or Facilities available	Area/No.
1	<b>Floriculture Research farm</b>	
	Total area	4 ha
	Naturally Ventilated Polyhouse for orchid	500 m <sup>2</sup>
	Net house for Heliconias	1500 m <sup>2</sup>
	Net house for Bird of Paradise	500 m <sup>2</sup>
	Selling unit net house	750 m <sup>2</sup>
	Net house for cut greens, foliage plants etc.	175 m <sup>2</sup>
	Rain shelter for chrysanthemum, gypsophila etc.	200 m <sup>2</sup>
	Propagation unit	550 m <sup>2</sup>
	Net house for orchids and anthurium	150 m <sup>2</sup>
	Godown cum store	22 m <sup>2</sup>
	Propagation unit with rain shelter	175 m <sup>2</sup>
2	<b>Green House Complex</b>	
	Naturally Ventilated Polyhouse	2 nos.
	Fan and Pad type Polyhouse	2 nos.
	Net house	2
3	<b>Advanced Training Centre on Soilless Growing system for various crops</b>	
	Total area	2 acres
	Naturally Ventilated Polyhouse	1
	Polyhouse with Fan and Pad system	1
	Ornamental Plant Nursery	1

#### 4.3.6 Production of Planting Materials

S. N.	Planting Material	Crop and Cultivar	Quantity
		<b>B.H. : 12046-1 (Plan Project)</b>	
1	Seeds/Bulbs/Corms	Gladiolus corms (No.)	227
		Tuberose bulbs, lily bulbs, (No.)	73410
		Heliconia rhizomes (No.)	2579
		Ornamental ginger rhizomes (No.)	1
2	Nursery plants	Shrubs and climbers (No.)	7
		Cycus (No.)	2
		Palm (No.)	2
3	Rooted cuttings	Rose cuttings (No.)	4
4	Cut flowers	Gladiolus, rose, tuberose, goldenrod, orchid, heliconia ornamental ginger etc. (No.)	3604
5	Loose flowers (kg)	Marigold, Chrysanthemum, Rose, Mogra etc.	148.20 kg
6	Flower decoration	Flower bouquets, bowl and Channels (No.)	285
		<b>B.H. : 12970</b>	
1	Cut flowers	Gerbera	264
		Dendrobium Orchid (small)	100
		Dendrobium Orchid (big)	55
2	Flower bouquet	Small, medium, large, floral bowl etc.	164
3	Plants	Small bags (7"-5")	101
		Medium bags (10"-8")	19
		Large bags (14"-12")	24
		<b>B.H. : 12041</b>	
1	Nursery plants	Grafted Adenium	61
		Haworthia (Small pot)	41
		Cactus	1
		Succulents	37
		<b>B.H. : 9510 N - 50 (Revolving Fund)</b>	
1	Nursery plants	Ornamental plants	3817
		Medicinal plants	969



		Trees	305
		Palms	255
2	Rooted cuttings	Ornamental plants	3000
3	Seedlings	Flower crops	2150
<b>B.H. : 9510 N - 60 (Revolving Fund)</b>			
1	Cut flowers	Gerbera, orchid etc.	440
2	Flower bouquet	Small, medium, large, floral bowl etc.	234
3	Dish garden	Small (6"),	23
		Medium (8")	14
		Large (10")	5
4	Terrarium	Large (10")	5
		Small (6"-8")	7
5	Hanging basket	Plastic	115
		Coco-coir	38
		bamboo	29
6	Plants	Large bags (14"-12")	111
		Medium bags (10"-8")	54
		Small bags (7"-5")	80
		Plastic pots (10"-12")	61
		Ceramic pot (10")	53



## 4.4 Department of Post Harvest Technology

### 4.4.1 Faculty Profile

S.N	Name	Designation	Qualification	Date of Joining (Present Post)	Length of Service (yrs.)	Specialization	B.H.
1	Dr. Dev Raj	Professor and Head	Ph.D. (Horticulture)	17/02/2012	14	Post Harvest Technology	12237
2	Dr. Parag S. Pandit	Assistant Professor	M.Tech. (Agril. Engg.)	14/02/2007	14	Agricultural Process and Food Engineering	12237
3	Dr. Ashok Kumar Senapati	Assistant Professor	M.Tech.	30/03/2009	12	Post Harvest Engineering	12237
4	Dr. Jilen M. Mayani	Assistant Professor	Ph.D. (Horticulture)	29/06/2010	11	Post Harvest Technology	12237
5	Er. Fakir Mohan Sahu	Assistant Professor	M.Tech.	25/02/2013	8	Process & Food Engineering	12244
6	Dr. Harish G. Suthar	Assistant Professor	Ph.D. (Microbiology)	27/01/2014	7	Microbiology	12244
7	Dr. Nilam V. Patel	Assistant Professor	Ph.D. (Horticulture)	27/08/2015	6	Post Harvest Technology	6503-03
<b>Supporting Staff</b>							
8	Balvant Ahir	Plant Operator	ITI (Welder)	02/04/2011	11	-	12244
9	Mrs. Patel Unnati D.	Agriculture Assistant	Diploma (Horticulture)	03/07/2018	3	Horticulture	05228

### 4.4.2 Academic Activities

#### List of Courses offered by the Department (As Per 5<sup>th</sup> Deans' Committee)

<b>B.Sc. (Hons.) Horticulture</b>					
S.N.	Sem.	Course No.	Title	Credits	Faculty
1	I	PHT 1.1	Fundamentals of Food & Nutrition	2(1+1)	Dr. J. M. Mayani
2	II	PHT 5.2	Postharvest Management of Horticultural Crops	3(2+1)	Dr. A. K. Senapati
3	III	PHT 6.3	Processing of Horticultural Crops	3(1+2)	Dr. A. K. Senapati
<b>Sub-Total</b>				<b>8 (4+4)</b>	
<b>STUDENT READY-I: Experiential Learning Programme</b>					
4	IV	<b>HWE 7.3</b>	<b>Post harvest handling and value addition in Horticultural Crops</b>	<b>10 (0+10)</b>	
		HWE: 7.3.1	Preparation and evaluation of processed products	6(0+6)	Dr. N. V. Patel Dr. A. K. Senapati Er. F. M. Sahu
		HWE:7.3.2	Packaging and Marketing of processed products	4(0+4)	Dr. P. S. Pandit
<b>STUDENT READY-II: Rural Horticultural Work Experience</b>					
5	V	HWE. 8.3 (RHWE)	University farm (JAU) and private horticultural field visit of Saurashtra region	4(0+4)	Dr. N. V. Patel Er. F. M. Sahu Dr. H. G. Suthar
<b>Sub-Total Student Ready</b>				<b>14 (0+14)</b>	
<b>Total</b>				<b>22 (4+18)</b>	



**List of PG Courses offered by the Department  
(As Per BSMA Committee)**

<b>M.Sc. Horticulture-Post Harvest Technology</b>						
S.N.	Sem.	Course No.	Title	Credits	Faculty	
1	Odd	PHT:501*	Principles of Post Harvest Management for Perishable Horticultural Produce	2(1+1)	Dr. J. M. Mayani	
2	Even	PHT:502*	Fundamentals of Processing of Fruits and Vegetables	2(1+1)	Dr. Dev Raj	
3	Odd	PHT:503*	Laboratory Analysis and Quality Assurance Techniques of Fresh and Processed Horticultural Produce	2(1+1)	Dr. H. G. Suthar	
4	Even	PHT:504*	Techniques for Sensory Analysis For Processed Produce	2(1+1)	Dr. J. M. Mayani	
5	Odd	PHT:505*	Pre-Harvest Practices Affecting Post Harvest Life of Perishable Horticultural Produce	2(2+0)	Dr. N. V. Patel	
6	Even	PHT:506	Principles of Post Harvest Management of Spices and Plantation Crops	2(1+1)	Dr. N. V. Patel	
7	Odd	PHT:507	Principles of Post Harvest Management of Ornamental, Medicinal and Aromatic Plants	2(1+1)	Dr. N. V. Patel	
8	Even	PHT:508	Processing of Plantation Crops, Spices, Medicinal and Aromatic Plants	2(1+1)	Dr. N. V. Patel	
9	Odd	PHT:509	Packaging of Perishable Horticultural Produce	2(1+1)	Dr. J. M. Mayani	
10	Even	PHT:510	Packaging Technology of Processed Horticultural Produce	3(2+1)	Dr. J. M. Mayani	
11	Odd	PHT:511	Process Engineering of Horticultural Crops	3(2+1)	Er. F. M. Sahu	
12	Even/ Odd	PHT:591	Master's Seminar	1(1+0)	PG Guide	
13	Even/ Odd	PHT:599	Master's Research(Major Subject)	20 (0+20)	PG Guide	
14	Odd	VSC:509	Fundamentals of processing of vegetables	3(2+1)	Dr. J. M. Mayani	
15	Even	PSMA:506*	Processing of Plantation Crops, Spices, Medicinal and Aromatic Plants	3(2+1)	Dr. N. V. Patel	
16	Odd	ABM:518	Food technology and processing management	2(2+0)	Dr. N. V. Patel	

**\*Compulsory**

**Total**

**53 (21+32)**

**COMPULSORY NON-CREDIT COURSES**

Even	PHT:512*	In-Plant Training	NC	Dr. Dev Raj	
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**Ph.D. Horticulture- Post Harvest Technology**

S.N.	Sem.	Course No.	Title	Credits	Faculty	
1	Odd	PHT:601**	Advances in Post Harvest Management of Fresh Horticultural Produce	2(2+0)	Dr. N. V. Patel	
2	Even	PHT:602**	Advances in Laboratory Techniques and Research	3(1+2)	Dr. H. G. Suthar	



			Methodology in Post Harvest Technology			
3	Odd	PHT:603**	Advances in Processing Technology of Horticultural Crops	3(3+0)	Dr. Dev Raj	
4	Even	PHT:604	Packaging House Operations And Transportation Of Fresh Horticultural Produce	2(2+0)	Dr. N. V. Patel	
5	Odd	PHT:605	Commercial Aspects of Post Harvest Technology of Horticultural Produce	2(2+0)	Dr. J. M. Mayani	
6	Even	PHT:606	Dehydration Technology of Horticultural Produce	3(2+1)	Dr. Dev Raj	
7	Odd	PHT:607	Freezing Technology of Horticultural Produce	3(2+1)	Dr. Dev Raj	
8	Even	PHT:608	Fruit and Vegetable Fermentation Technology	3(2+1)	Dr. H. G. Suthar	
9	Odd	PHT:609	Waste Management from Horticulture Processing Industries	3(2+1)	Dr. H. G. Suthar	
10	Even /Odd	PHT:691	Doctoral Seminar- I	1(1+0)	PG Guide	
11	Even /Odd	PHT:692	Doctoral Seminar- II	1(1+0)		
12	Even /Odd	PHT:699	Doctor's Research (Major Subject)	45 (0+45)	PG Guide	
<b>**Compulsory</b>			<b>Total</b>	<b>71 (20+51)</b>		

#### PG Students Enrollment in Masters' Programme

S.N.	Reg. No.	Name of Student	Title of the Research Programme	Major Guide
1	2020220009	Dhimmar Shivani Bhikhubhai (4 <sup>th</sup> Sem.)	Effect of slice thickness and blanching on quality of osmotically dehydrated coconut ( <i>Cocosnucifera</i> L.) chips	Dr. N. V. Patel
2	2020220017	Maru Shveta Markhibhai (4 <sup>th</sup> Sem.)	Standardization of formulation for preparation of vegetables enriched pasta	Dr. Dev Raj
3	2020220023	Patel Prachi Ajaybhai (4 <sup>th</sup> Sem.)	Standardization of drying methods for preparation of powder from banana pseudostem central core.	Dr. C. S. Desai
4	2020220031	Tandel Prakrutiben Balubhai (4 <sup>th</sup> Sem.)	Standardization of technology for preparation of instant coconut ( <i>Cocosnucifera</i> L.) chutney mix	Dr. N. V. Patel
5	2020220034	Varsha G. D. (4 <sup>th</sup> Sem.)	Standardization of blanching and sulphitation technique for dehydration of banana pseudostem central core for powder making using cabinet dryer	Dr. C. S. Desai
6	2020221010	Gaudani Yash Shaileshbhai (2 <sup>nd</sup> Sem.)	Standardization of Process Formulation for Shelf life extension of Sapota milkshake	Dr. Dev Raj
7	2020221019	Lunagariya Ajay Mansukhbhai (2 <sup>nd</sup> Sem.)	Utilization of banana pseudostem central core powder for	Dr. C. S. Desai



8	2020221022	Mendapara Chetankumar Kanjibhai (2 <sup>nd</sup> Sem.)	preparation of cookies Extraction and drying of pigments from red dragon fruit [ <i>Hylocereuspolyrhizus</i> (Weber Br. & R) pulp	Dr. J. M. Mayani
9	2020221030	Patel Yogvidhya Rameshbhai (2 <sup>nd</sup> Sem.)	Extraction and drying of pigments from red dragon fruit [ <i>Hylocereuspolyrhizus</i> (Weber Br. & R) peel	Dr. J. M. Mayani
10	2020221016	Javiya Anjali Sureshbhai (2 <sup>nd</sup> Sem.)	Development of bar from banana ( <i>Musa paradisica</i> L.) blended with banana pseudostem central core	Dr. C. S. Desai
11	2020221021	Master Razin Anvarhusen (2 <sup>nd</sup> Sem.)	Standardization of pre-treatments for dehydration of greater yam ( <i>Dioscoreaalata</i> ) into powder	Dr. N. V. Patel
12	2020221042	Vasanth S. V. (2 <sup>nd</sup> Sem.)	Standardization of pre-treatments for dehydration of Elephant Foot Yam ( <i>Amorphophalluspaeoniifolius</i> ) into powder	Dr. N. V. Patel

#### PG Students Enrollment in Doctoral Programme

S.N.	Reg.No.	Name of Student	Title of the Research Programme	Major Guide
1	1020220006	Gohil Mehulkumar Maganbhai(4 <sup>th</sup> Sem.)	Storage, processing and value addition of dragon fruit ( <i>Hylocereus app.</i> )	Dr. Dev Raj

#### RAC Meetings conducted by the Department

S.N.	Meeting Details			Proceeding No. and date	Remarks
	No.	Date of meeting	Venue		
1	10 <sup>th</sup> RAC	03/04/2021	Swami Vivekananda Hall, ACHF	--	Presentation of New Technical Programmes of 05 M.Sc. students
2	11 <sup>th</sup> RAC	27/01/2022	Conference Hall, Dept. of PHT, ACHF	--	Presentation of New Technical Programmes of 07 M.Sc. students

#### 4.4.3 Research Activities

##### Research Schemes in Operation

S.N.	Research Project	Budget Head	Year of Start	Type of Scheme	PI & Co-PI
1	Centre of Excellence on Post Harvest Technology	12935	2004-05	Govt. of Gujarat (Plan)	Dr. Dev Raj
2	Strengthening of P.G. Programme of Post Harvest Technology & Process Engineering (Phase-II)	12244	2010-11	Govt. of Gujarat (Plan)	Dr. Dev Raj
3	Establishment of Fruits and Vegetable Packaging Research Station Including Seeds	12940	2009-10	Govt. of Gujarat (Plan)	Dr. Dev Raj

## Objectives of scheme

### 1. Center of Excellence on Post Harvest Technology (BH: 12935)

#### Objectives:

- To conduct basic and applied research in the area of handling, preservation, storage and processing of major horticultural crops.
- To impart education on post harvest technology.
- Testing of the developed technologies on commercial scale.
- Training of the entrepreneurs.
- Technology transfer to farmers and industries.
- To provide advisory and consultancy services to agro processing industries.

### 2. Strengthening of P.G. Programme of Post Harvest Technology & Process Engineering (Phase-II) (BH: 12244)- (now P.G. Programme on PHT of Horticultural Crops)

#### Objectives:

- To establish PG faculty of Post Harvest Technology & Process Engineering
- Diversification and upgradation to Post Harvest Technology & Process Engineering education research and extension

### 3. Establishment of Fruits and Vegetable Packaging Research Station Including Seeds (BH: 12940)

#### Objectives:

- To conduct applied research work on the subject of post harvest packaging, storage and transportation of fruits and vegetables as well as seed.
- To popularize the methods and techniques of post harvest handling of fruits and vegetables as well as seed to avoid post harvest losses as per client specific requirement,
- To provide all the basic facilities of Pack House on rental basis to the farmers, merchants, processors and Exporters.
- To provide advisory and consultancy services to fresh supply chain and processing to industries for the export.

## Research Recommendations

S.N.	Title of Experiment and Recommendation	Name of PI/Co-PI/Associate
1	<b>Title:</b> Standardization of technology for minimal processing of fresh cut cauliflower ( <i>Brassica oleraceavar. botrytis</i> L.). <b>Recommendation:</b> It is recommended to the processors and entrepreneurs that minimally processed fresh cut cauliflower pieces (25 mm size) can be prepared by blanching for 3 minutes at 95°C along with 1.0 % calcium chloride (CaCl <sub>2</sub> ) followed by 15 minutes keeping in the solution of 0.1 % citric acid and 0.1 % potassium meta bisulphite. After removal of excess water, the pieces were packed in 200 gauge LDPE (Low Density Poly Ethylene) bags can be successfully stored for 20 days at refrigerated temperature (5°C).	Dr. Nilam V. Patel, Dr. Dev Raj, Dr. J. M. Mayani

## Approved New Technical Programmes

S.N.	Title of NTP	Name of PI/Co-PI/Associate
1	Standardization of process for preparation of Jaggery from sapota	PI: Dr. Dev Raj Co-PIs: Dr. A. K. Senapati & Dr. Nilam V. Patel Asso.: Er. F. M. Sahu
2	Standardization of processing technology for dried <i>Kothimbda/Kachri</i> ( <i>Cucumiscollosus</i> (Rottl.) Cogn.	PI: Dr. S. L. Sangani Co-PIs: Darshana Chaudhari & Mr. P. M. Sankhla Asso.: Dr. Narendra Garaniya

#### 4.4.4 Extension Activities

##### Training/ Exposure visit/ Exhibition/Lecture delivered

S.N.	Faculty	Activity details	Date/ Period	Place/ Institute
Training				
1	Dr. Dev Raj Dr. P. S. Pandit Dr. J. M. Mayani Dr. Nilam V. Patel	Virtual training for horticulture officers on “Advanced technologies in value addition of horticultural produce” organized by NAHEP-CAAST, NAU	1-3/07/2021	PHTC, ACHF, NAU
2	Dr. J. M. Mayani Dr. Nilam V. Patel	Farmers first programme : Training on value addition in sapota	11/02/2022	PHTC, ACHF, NAU
3	Dr. Dev Raj Dr. J. M. Mayani Dr. Nilam V. Patel	1 day training on “Value addition in fruits and vegetables”	08/03/2022	ATMA, Surat (Ta. Kamrej)
			09/03/2022	ATMA, Surat (Ta. Olpad)
			10/03/2022	ATMA, Surat (Ta. Umarpada)
			11/03/2022	ATMA, Surat (Ta. Chauryasi)
			14/03/2022	ATMA, Surat (Ta. Palsana)
			15/03/2022	ATMA, Surat (Ta. Mandavi)
			16/03/2022	ATMA, Surat (Ta. Bardoli)
			17/03/2022	ATMA, Surat (Ta. Mahuva)
			19/03/2022	ATMA, Surat (Ta. Mangrol)
Exposure visit				
4	Dr. P. S. Pandit Dr. N. V. Patel	National Expo on “Khadya Khurak-2021” by 40 ELP and PG students	21/12/2021	Gandhinagar (Guj)
Exhibition				
5	Dr. J. M. Mayani Dr. N. V. Patel	Stall exhibition during State level seminar	30/12/2021	Examination hall compound, NAU
Lecture delivered				
6	Dr. N.V. Patel	Lecture delivered on Post harvest management of horticultural crops	30/07/2021	Establishment of agro ITI centre for agriculture and horticulture scheme, DEE, NAU
7	Dr. N.V. Patel	Lecture delivered on Value addition in fruits and vegetables	13/08/2021	Farmers Training Centre (FTC), Navsari
8	Dr. N.V. Patel	Lecture delivered on Processing of fruits and vegetables	16-18/09/2021	ATMA Project, Navsari
9	Dr. N.V. Patel	Post harvest management of horticultural crops	23/09/2021	SSK, NAU
10	Dr. N.V. Patel	Lecture delivered on Value addition in fruits and vegetables	21/01/2022	Farmers Training Centre (FTC), Navsari



## 4.5 Department of Plant Protection (Entomology and Pathology)

### 4.5.1 Faculty Profile

S.N.	Name	Designation	Qualification	Date of Joining (Present Post)	Length of Service (Yrs.)	Specialization	B.H.
1	Dr. H. V. Pandya	Registrar and Professor	Ph.D. (Agril. Ento.)	10/04/2006	33	Agril. Entomology	12237
2	Dr. P. R. Patel	Associate Professor & Head	Ph.D. (Plant Path.)	01/04/2011	26	Plant Pathology	12237
3	Dr. Hemant Sharma	Associate Professor & Technical Officer	Ph.D. (Plant Path.)	15/08/2019	15	Plant Pathology	12952
4	Dr. Snehal M. Patel	Assistant Professor	Ph.D. (Agril. Ento.)	14/06/2010	12	Agril. Entomology	12237
5	Dr. V. P. Prajapati	Assistant Professor	Ph.D. (Plant Path.)	21/08/2018	08	Plant Pathology	12237

### 4.5.2 Academic Activities

#### List of Courses Offered By the Department (As Per 5<sup>th</sup> Deans' Committee)

B.Sc. (Hons.) Horticulture						
S.N.	Sem.	Course No.	Title	Credits	Faculty	
1	Even	PPT 2.1	Fundamentals of Plant Pathology	3(2+1)	Dr. V. P. Prajapati	
2	Even	NRM 2.3	Forest Protection	3(2+1)	Dr. H. V. Pandya Dr. Hemant Sharma Dr. Dileswar Nayak	
3	Odd	PPT 3.2	Fundamentals of Entomology	3(2+1)	Dr. Snehal M. Patel	
4	Odd	PPT 3.3	Nematode Pests of Horticultural Crops and their Management	2(1+1)	Dr. P. R. Patel	
5	Even	PPT 4.4	Diseases of Fruit, Plantation, Medicinal and Aromatic Crops	3(2+1)	Dr. P. R. Patel	
6	Even	PPT 4.5	Insect Pests of Fruit, Plantation, Medicinal and Aromatic Crops	3(2+1)	Dr. Snehal M. Patel	
7	Odd	PPT 5.6	Diseases of Vegetable, Ornamental and Spice Crops	3(2+1)	Dr. V. P. Prajapati	
8	Odd	PPT 5.7	Insect Pests of Vegetable, Ornamental and Spice Crops	3(2+1)	Dr. Parth B. Patel	
9	Even	PPT 6.8	Apiculture, Sericulture and Lac Culture	2(1+1)	Dr. Parth B. Patel	
<b>Total</b>				<b>25(16+9)</b>		

**List of PG Courses Offered By the Department  
(As Per BSMA Committee)**

<b>M.Sc. Horticulture- Horticultural Entomology</b>						
S.N.	Sem.	Course No.	Title	Credits	Faculty	
1	Even/ Odd	HENT 510	Principles of Integrated Pest Management	2(1+1)	Dr. Snehal Patel	
2	Even/ Odd	HENT 511	Pest of Vegetable and Ornamental Crops	3(2+1)	Dr. H. V. Pandya	
3	Even/ Odd	HENT 512	Pests of Fruit and Plantation Crops	2(1+1)	Dr. Snehal Patel	
4	Even/ Odd	HENT 513	Pest of Medicinal, Aromatic, Condiments and Spice Crops	2(1+1)	Dr. H. V. Pandya	
5	Even/ Odd	HENT 591	Master's Seminar	1(1+0)	Major Guide	
6	Even/ Odd	HENT 599	Master's Research	20(0+20)	Major Guide	

**Total 30 (06+24)**

<b>M.Sc. Horticulture- Horticultural Pathology</b>						
1	Even/ Odd	Horti. Path. 506	Principles of Plant Disease Management	3(2+1)	Dr. P. R. Patel	
2	Even/ Odd	Horti. Path. 508	Diseases of fruits, plantation and Ornamental Crops	3(2+1)	Dr. Hemant Sharma /Dr. P.R. Patel	
3	Even/ Odd	Horti. Path. 591	Master's Seminar	1(1+0)	Major Guide	
4	Even/ Odd	Horti. Path. 599	Master's Research	20(0+20)	Major Guide	

**Total 27 (18+29)**

<b>Ph.D. Horticulture- Horticultural Entomology</b>						
1	Even/ Odd	HENT 610	Agricultural Ornithology	2(1+1)	Dr. H. V. Pandya	
2	Even/ Odd	HENT 615	Advances in Pests of Fruit and Plantation Crops	3(2+1)	Dr. H. V. Pandya	
3	Even/ Odd	HENT 616	Advances in Pests of Vegetable Crops	3(2+1)	Dr. H. V. Pandya	
4	Even/ Odd	HENT 617	Advances in Pests of Ornamental, Medicinal and Aromatic Plants	3(2+1)	Dr. H. V. Pandya	
5	Even/ Odd	HENT 691	Doctoral Seminar I	1(1+0)	Major Guide	
6	Even/ Odd	HENT 692	Doctoral Seminar II	1(1+0)	Major Guide	
7	Even/ Odd	HENT 699	Doctoral Research	45(0+45)	Major Guide	

**Total 58 (09+49)**

<b>Ph.D. Horticulture- Horticultural Pathology</b>						
1	Even	Horti.Path 516	Integrated Disease Management	3(2+1)	Dr. P. R. Patel	
2	Odd	Horti.Path / Pl. Path. 519	Post Harvest Diseases	3(2+1)	Dr. Hemant Sharma	
3	Even/ Odd	Horti.Path 691	Doctoral Seminar I	1(1+0)	Major Guide	
4	Even/ Odd	Horti.Path 692	Doctoral Seminar II	1(1+0)	Major Guide	
5	Even/ Odd	Horti.Path 699	Doctoral Research	45(0+45)	Major Guide	

**Total 53 (6+47)**

### PG Students Enrollment in Master Programme (Entomology)

S.N.	Reg. No.	Name of Student	Title of the Research Programme	Major Guide
1	2010121066	Patel Raj Manubhai	Biology of leaf webber and capsule borer <i>Antigastra catalaunalis</i> (Duponchel) and evaluation of some newer molecules against sesame	Dr. H. V. Pandya
2	2010121100	Sweta Rawat	Bionomics and evaluation of some newer molecules against castor shoot and capsule borer, <i>Conogethes punctiferalis</i> Guenee on castor	Dr. H. V. Pandya
3	2010121054	Panchal Nisharg	Pest succession and management of leaf miner ( <i>Liriomyza trifolii</i> ) in tomato	Dr. Snehal Patel

### PG Students Enrollment in Master Programme (Plant Pathology)

S.N.	Reg. No.	Name of Student	Title of the Research Programme	Major Guide
1	2010121093	Sree Lakshmi (ICAR)	Association of seed mycoflora of pea and its management	Dr. P. R. Patel
2	2010121052	Nayi Saloni Dharmeshbhai	Studies on anthracnose of dragon fruit ( <i>Hylocereus spp.</i> ) caused by <i>Colletotrichum spp.</i>	Dr. Hemant Sharma
3	2010121026	Ganvit Tamanna S.	Investigation on Stem/tuber rot ( <i>Sclerotium rolfsii</i> Sacc.) of tuberose under south Gujarat condition	Dr. Hemant Sharma
4	2010121081	Rathod Sanjana Amrutlal	Seed health status of Yardlong bean [ <i>Vigna unguiculata</i> (L.) Walp. subsp. <i>sesquipedalis</i> (L.) Verdc.] and its management	Dr. V. P. Prajapati
5	2010121090	Sherasiya Mahmadjuber	Seed health status of Wheat [ <i>Triticum aestivum</i> L.] and its management	Dr. V. P. Prajapati

### PG Students Enrollment in Doctoral Programme (Entomology)

S.N.	Reg. No.	Name of Student	Title of the Research Programme	Major Guide
1	1010121040	Neelam Anilkumar Singh	Host Plant Resistance of Indian bean against bean pod borer, <i>Maruca vitrata</i> (Fabricius) under south Gujarat condition	Dr. H. V. Pandya

### PG Students Enrollment in Doctoral Programme (Plant Pathology)

S.N.	Reg. No.	Name of Student	Title of the Research Programme	Major Guide
1	1010121021	Parmar Mittalbahen Chaturbhai	Epidemiology and management of fruit canker of guava caused by <i>Pestalotiopsis</i> sp.	Dr. P. R. Patel

### RAC Meetings conducted by the Department

S.N.	Meeting Details			Proceeding No. and date	Remarks
	No.	Date of meeting	Venue		
1	4 <sup>th</sup> PG-RAG	09/02/2022	Virtual class room NMCA., Navsari	No.ACN/PP/PGT/173 /2022, Navsari, 15/02/2022	Presentation of New Technical Programmes of 01 Ph.D. students
2	4 <sup>th</sup> PG-RAG	06/05/2022	Bio fertilizer conference room, NMCA, NAU., Navsari	No.ACN/PP/PGT/T-2/521/2022, Navsari, 2/05/2022	Presentation of New Technical Programmes of 05 M.Sc. students

### 4.5.3 Research Activities

#### Research Schemes in Operation

S.N.	Name of Research Project	Budget Head	Year of Start	Type of Scheme	Name of PI & Co-PI
1	NHM on Establishment of Bio-agent (bio pesticide) production laboratory for major pests and diseases of horticultural crops	18198	2019-20	Other agency Project	PI: Dr. H. V. Pandya Co-PIs: Dr. Snehal Patel, Dr. Viral Prajapati, Dr. P. R. Patel, Dr. Hemant Sharma

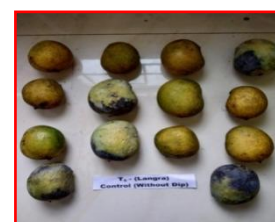
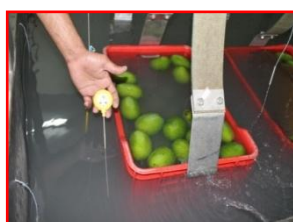
#### Objectives of Scheme

##### 1. NHM- Establishment of Bio-agent (bio pesticide) production laboratory for major pests and diseases of horticultural crops (B.H. 18198)

- Establishment of Bio-agent production laboratory.
- Mass multiplication of efficient Bio-agents (Biopesticide) commercially.
- Popularization and use of bio-agents among farming community against important pests and diseases.

#### Research Recommendations

S.N.	Title of Experiment and Recommendation	Name of PI /Co-PI/ Associate
1	<b>Management of post-harvest diseases of mango using hot water treatment</b> Farmers, consumer and entrepreneurs are recommended to manage postharvest diseases and pest viz; anthracnose, stem end rot and fruit fly by dipping mango fruits after the harvesting in hot water at 48°C for 60 min or 50°C for 20 min, or 52°C for 10 min without any adverse effect on fruits.	PI: Dr. H.V.Pandya (PI) Co-PIs: Dr. S. P. Saxena & Dr. P. R. Patel Asso.: Dr. Hemant Sharma, Dr. V. P. Prajapati, Dr. Snehal M. Patel, Dr. Jilen Mayani & Dr. Y. N. Tandel
2	<b>Dynamics of diseases in gerbera under protected cultivation</b> Dynamics of diseases in gerbera under protected cultivation Under the protected cultivation of gerbera, leaf blight disease ( <i>Alternaria alternata</i> ) was observed from July to August (29 th to 35 th SMW) with its maximum intensity and showed significant positive correlation with relative humidity and negative with average temperature.	PI: Dr. P. R. Patel, Co-PIs: Dr. Pushpendra Singh & Dr. V. P. Prajapati Asso.: Dr. Hemant Sharma





### Approved New Technical Programmes

S.N.	Title of NTP	Name of PI/Co-PI/Associate
1	Evaluation of okra varieties for their reaction to Okra yellow vein mosaic virus (OYVMV) and whitefly, <i>Bemisia tabaci</i> in polyhouse condition	Dr. P. R. Patel (PI), Dr. H. V. Pandya and Dr. Hemant Sharma (Co-PIs) Dr. Sanjeev kumar, and Dr. V. P. Prajapati
2	Evaluation of Ardu ( <i>Ailanthus excelsa</i> Roxb.) germplasm against powdery mildew disease	PI: Dr. Hemant Sharma Co-PIs: Dr. P. R. Patel & Dr. V. P. Prajapati Asso.: Dr. Dileswar Nayak
3	Evaluation of bush type French bean varieties against leaf spot disease under naturally ventilated polyhouse	PI: Dr. V. P. Prajapati Co-PIs: Dr. P. R. Patel, Dr. Hemant Sharma & Dr. H. V. Pandya Asso.: Dr. Sanjeev Kumar
4	Status of insect pests and natural enemies in organic mango orchard	Dr. Snehal Patel, Dr. H. V. Pandya & Dr. Anand Kaswala
5	Status of insect pests and natural enemies of okra under field condition	Dr. H. V. Pandya, Dr. Snehal Patel & Dr. Anand Kaswala

### 4.5.4 Extension Activities

#### Diagnostic visit at farmers' field

S.N.	Diagnostic Team	Name of Farmer and Address	Date
1	Dr. Hemant Sharma and Government Officers, Pardi Taluka (Valsad)	Various village of Pardi taluka (Valsad)	24-25/05/2021
2	Dr. Viral P. Prajapati and Government Officers, Pardi Taluka (Valsad)	Various village of Umergoam taluka (Valsad)	24-25/05/2021
3	Dr. V. M. Prajapati, Dr. Snehal Patel and Dr. Viral P. Prajapati	Sh. Shyamsinghbhai Vasava, Moti bedvan, Dediapada	05/01/2022

#### Glimpses of Diagnostic visit



Survey after Cyclone Tauktae in Pardi and Umergoam taluka (Distt.-Valsad)



Visits by Scientist at different places



#### 4.5.5 Infrastructure or Facilities available/created

S.N.	Infrastructure or Facilities available	Area/ No.	S.N.	Infrastructure or Facilities available	Area/ No.
1	Refrigerated centrifuge	01	2	Hot plate with Magnetic stirrer	01
3	Digital colony counter	01	4	PH 22 Water Quality Meters Analyzers	01
5	Analytical digital balance	01	6	Cooling Incubator-150L (BOD)	01
7	Digital balance	01	8	View Sonic Projector Model PG 603 X	01
9	Orbital shaker	01	10	Sony Handy cam FDR-AX 40	01
11	Herbarium cabinets	01	12	Samsung 5 in 1 convertible refrigerator	02
13	Electric loop steriliser	01	14	Laminar flow bench unit 4	01
15	Microprocessor ph system	01	16	Colony counter	01
17	Elisa plate reader	01	18	Trinocular microscope	01
19	Polyacrylamide gel electrophoresis systems	01	20	Photography camera	01
21	Dissecting microscopes	25	22	Balance capacity 65, 110 and 210 g	01
23	Stereozoom microscope	03	24	Autoclave 53 L	01
25	Lab. Projector	01	26	BOD Incubator 91 L	01
27	Oven 150L Stream series	01	28	GPS	01
29	Godrej refrigerator RD EON Vestra 484 MDI 3.2	01			

S.N.	Infrastructure or Facilities created	Area/ No.	S.N.	Infrastructure or Facilities created	Area/ No.
1	Spectrafuge	01	2	Refrigerator	03
3	Microwave oven	01	4	BOD incubator	03
5	Hot air oven	01	6	Elisa plate washer	01
7	Hot water bath	01	8	Compound microscopes	05
9	Laminar air flow	03	10	Centrifuge	01
11	Vertical autoclave	02	12	Microtome	01

## 4.6 Department of Basic Sciences

### 4.6.1 Faculty Profile

S.N.	Name	Designation	Qualification	Date of Joining (Present Post)	Length of Service (yrs.)	Specialization	B.H.
1	Dr. Rehana Niyaria	Associate Professor & Head	Ph.D.	23/11/2016	15	GPB Plant Tissue Culture	12014-05
2	Dr. Diwakar Singh	Assistant Professor	Ph.D.	06/04/2011	11	Plant Biochemistry	12237
3	Dr. K. P. Suthar	Assistant Professor	Ph.D.	01/04/2021	11	Plant Biotechnology	12097
4	Dr. Chintan Kapadia	Assistant Professor	Ph.D.	22/01/2013	11	Plant Biotechnology	12237

### 4.6.2 Academic Activities

#### List of Courses offered by the Department (As Per 5<sup>th</sup> Deans' Committee)

B.Sc. (Hons.) Horticulture					
S.N.	Sem.	Course No.	Title	Credits	Faculty
1	I	BSC 1.1	Elementary Plant Biochemistry 1+1	1+1	Dr. Diwakar Singh
2	I	BSC 1.2	Principles of Genetics & Cytogenetics	2+1	Dr. Rehana Niyaria
3	II	BSC 1.3	Introductory Microbiology	1+1	Dr. H. G. Suthar
4	II	BSC 2.6	Plant Biochemistry	1+1	Dr. Diwakar Singh
5	III	BSC 3.6	Elementary Plant Biotechnology	1+1	Dr. C. V. Kapadia
6	V	BSC 5.7 (Hort. Polytechnic, Paria)	Elementary Plant Biochemistry	1+1	Dr. Diwakar Singh
7	V	BSC 5.7 (Hort. Polytechnic, Navsari)	Elementary Plant Biochemistry	1+1	Dr. Diwakar Singh
<b>Total</b>				<b>8+7</b>	

#### PG students enrolment in Masters' Programme (Plant Molecular Biology & Biotechnology) and working at Dept. of Basic Sciences.

S.N.	Reg. No.	Name of Student	Title of the Research Programme	Major Guide
1	2010120010	Bhabhor Jigar Mohanbhai	Screening of Resistance Gene Analogue (RGA) marker(s) in Mungbean ( <i>Vigna radiata</i> L.) against yellow mosaic disease	Dr. Rishee K. Kalaria
2	2010120100	Sherasiya Jainulabedin Maheeb	Isolation and Molecular Characterization of Siderophore producing Bacterial Strains attributing anti fungal activity.	Dr. Rajkumar B. K.
3	2010120104	Sojitra Ajay Mansukhbhai	Morphological and molecular investigation of dwarfism in pigeon pea [ <i>Cajanus cajan</i> L.(Millsp.)] under exogenous gibberellic acid application.	Dr. V. B. Parekh
4	2010120113	Vakaliya Mohmmadasif Usman	Screening of Resistance Gene Analogue marker(s) in Indian bean [ <i>Lablab purpureus</i> (L.) Sweet] against Yellow Mosaic Disease	Dr. Rishee K. Kalaria

5	2010121006	Mohmad Ayaz Badi	Morpho physiological biochemical molecular profiling of interspecific derivative of cotton genotypes under salinity stress during early seeding growth stage.	Dr. Rajkumar B. K.
6	2010121001	Aditi Dwivedi	Development of drought responsive EST SSR markers in cotton.	Dr. Kiran Suthar
7	2010121005	Arlin Sen	Gene expression analysis of gibberellins biosynthetic pathway genes in pigeon pea under exogenous gibberellins application.	Dr. V. B. Parekh
8	2010121008	Barvadiya Hardik Rajeshbhai	Development of drought responsive EST-SSR markers in cotton ( <i>Gossypium hirsutum</i> L.)	Dr. Sanjay Jha

#### 4.6.3 Research Activities

S.N.	Research Project / Schemes	Budget Head	Year of Start	Type of Scheme	PI & Co-PI
1	Strengthening of Department of Biotechnology	12097	2010-11	Plan	HOD
2	Research in Tissue Culture	12014-05	Year 1993 (In the Year 2016, the scheme transferred to the Dept., In the year 2016-17 B.H. 12092 and B.H. 12014-05 was merged.).	Plan	HOD
3	Commercial Banana Tissue Culture Unit	NHM18928 M	2013-14	External funded	Unit Head

#### Objectives of the schemes

##### 12097: Strengthening of Department of Biotechnology

- To conduct research related to molecular, biochemical and microbial aspects to solve agricultural problems of south Gujarat regions.
- To impart special training to the PG students for research related to plant molecular biology to solve the agricultural problems.
- To develop highly skilled manpower in the field of biotechnology.

##### 12014-05: Research in tissue culture

- To develop commercially useful tissue culture protocol for important crops of South Gujarat.
- To provide training in the field of tissue culture to develop high tech human resources.

#### Approved New Technical Programmes

S.N.	Title of NTP	Name of PI/Co-PI/ Associate
1	Evaluation of bio-stimulants against salinity stress in tomato.	Dr. Chintan Kapadia
2	Cell Suspension Culture and Plant Regeneration in Banana C.V. Grand Naine	Dr. Chintan Kapadia
3	Comparative expression analysis of pectate lyase from native <i>Bacillus</i> and <i>Bacillus</i> as heterologous host	Dr. Chintan Kapadia
4	Laccase secreted by the alkaline tolerant bacteria: Identification, molecular characterization and heterologous expression	Dr. Chintan Kapadia

#### 4.6.4 Production of Planting Materials

S.N.	Planting Material	Crop and Cultivar	Quantity
1	Banana Tissue culture Plant	Banana Tissue Plant (G-9)	37316

## 4.7 Department of Natural Resource Management

### 4.7.1 Faculty Profile

S.N.	Name	Designation	Qualification	Date of Joining (Present Post)	Length of Service (yrs.)	Specialization	B.H.
1	Dr A. R. Kaswala	Asso. Professor & Head	Ph.D. (SSAC)	01/10/2012	12	Organic Farming, Soil Fertility	12237
2	Dr P. K. Dubey	Asst. Professor	Ph.D. (Agronomy)	12/03/2013	9	Organic Farming, Crop production	12022
3	Dr A. P. Italiya	Asst. Professor	Ph.D. (SSAC)	31/12/2012	10	Organic Farming, Soil Fertility	12237
4	Dr Smita Gupta	Asst. Professor	Ph.D (Agri Meteorology)	27/08/2019	3	Agri. Meteorology	12237

### 4.7.2 Academic Activities

#### List of Courses offered by the Department (As Per 5<sup>th</sup> Deans' Committee)

B.Sc. (Hons.) Horticulture					
S.N.	Sem.	Course No.	Title	Credits	Faculty
1	1 <sup>st</sup>	NRMH 1.1	Fundamentals of Soil Science	3(2+1)	Dr. A. P. Italiya
2	2 <sup>nd</sup>	NRMH 2.2	Soil Fertility and Nutrient Management	2(1+1)	Dr. A. P. Italiya
3	2 <sup>nd</sup>	NRMH 2.3	Water Management in Horticultural Crops	2(1+1)	Dr. P. K. Dubey
4	2 <sup>nd</sup>	NRMH 2.4	Agro-meteorology and Climate Change	2(1+1)	Dr. Smita Gupta
5	3 <sup>rd</sup>	NRMH 3.5	Organic Farming	2(1+1)	Dr. A. R. Kaswala
6	4 <sup>th</sup>	NRMH 4.6	Farm Power and Machinery	2(1+1)	Er. N. M. Shah
7	4 <sup>th</sup>	NRMH 4.7	Soil, Water and Plant Analysis	2(1+1)	Dr. A. R. Kaswala
8	5 <sup>th</sup>	NRMH 5.8	Weed Management in Horticultural Crops	2(1+1)	Dr. P. K. Dubey
9	6 <sup>th</sup>	NRMH 6.9	Introduction to Major Field Crops	2(1+1)	Dr. P. K. Dubey
10	6 <sup>th</sup>	NRMH 6.10	Introductory Agroforestry	2(1+1)	Dr. M. B. Tandel
11	6 <sup>th</sup>	NRMH 6.11	Environmental Studies and Disaster Management	3(2+1)	Dr. S. Vihol
<b>Total</b>				<b>24(13+11)</b>	
B.Sc. (Hons.) Forestry					
1	2 <sup>nd</sup>	SAF 1.2	Introduction to Agronomy and Horticulture	3(2+1)	Dr. P. K. Dubey
<b>Total</b>				<b>3(2+1)</b>	

#### List of PG Courses offered by the Department (As Per BSMA Committee)

M.Sc. & Ph.D. Horticulture-Fruit Science & Vegetable science					
S.N.	Sem.	Course No.	Title	Credits	Faculty
1	Odd	PGS 504	Basic Concept in Laboratory Techniques	1(0+1)	Dr. H. M. Patel
2	Even	FSC 510	Organic horticulture	2(1+1*)	*Dr. P. K. Dubey
3	Odd	PSMA 507	Organic spices and plantation technology	3(2+1*)	*Dr. P. K. Dubey
4	Even	VSC 508	Organic vegetable production technology	2(1+1*)	*Dr. A. R. Kaswala

5	Odd	Soils 513 (Agri)	Management of problematic soils and waters	3(2+1)	Dr. A. R. Kaswala
<b>Total</b>				<b>7 (2+5*)</b>	

#### 4.7.3 Research Activities

S.N.	Research Project / Schemes	Budget Head	Year of Start	Type of Scheme	PI & Co-PI
1	Strengthening of organic farming cell	12022	2012-13	Plan	PI: Dr. A. R. Kaswala Co-PI: Dr. P. K. Dubey Dr. A. P. Italiya

#### Objectives of the schemes

- To generate basic information about potential of organic farming, inorganic farming and combination of both from agronomy, soil science, soil and plant health, crop quality and nutrition and biochemistry view points.
- To assess intensity of pests and diseases in relation to different treatments and thereby to study pollution problem.
- To develop simple index based on quality difference and economics for assessing superiority of treatments and thereby make recommendation for farmers.
- Modelling and documentation of results.
- Develop organic package of practices for different crops.
- Evaluate quality of produce.
- Assess soil health.
- Training for creating awareness among farmers about organic farming.
- Demonstrate organic package of practice on farmers' fields.
- Helping farmers for organic certification and develop marketing linkages.
- Human resource development.

#### Research Recommendations

S.N.	Title of Experiment and Recommendation	Name of PI /Co-PI/ Associate
1	<b>Effect of spacing and organic manure on growth, yield and quality of organically grown banana cv. Grand naine (15.2.3.54)</b> The farmers of south Gujarat zone growing banana organically are recommended to apply 300g N/plant through NADEP compost (26.5 kg/plant NADEP compost containing 1.13 %N) in three equal splits at the time of planting, 30 and 60 days after planting either keep the spacing of 2.1 m×1.5 m or 1.8 m X 1.5 m for achieving higher yield and net profit. Further, apply bio-fertilizers ( <i>Azotobacter</i> , PSB and KMB, each having 10 <sup>8</sup> CFU/ml @ 5 l /ha.) at the time of planting. Also drench jivamrut at monthly interval starting from planting in five equal splits (200 ml/ plant/split).	<b>PI:</b> Dr. P. K. Dubey <b>Co-PI:</b> Dr. A. R. Kaswala, <b>Asso.:</b> Dr. A. P. Italiya & Dr. K. G. Patel



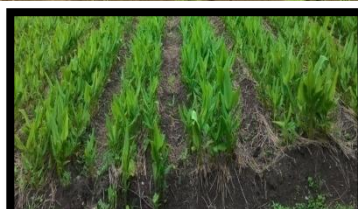




## 2 Suitability of various turmeric varieties under organic farming (15.2.3.55)

The farmers of south Gujarat zone growing turmeric (variety: Salem or Sugandhum) organically are recommended to apply 100% RDN through NADEP compost (5.5t/ha NADEP compost containing 1.08 %N) for achieving higher yield and net profit. They have to plant turmeric at 30 cm x 20 cm spacing on 90 cm raised bed having 15 cm height and spacing 50 cm between the beds. Further, apply bio-fertilizers (Azotobacter and PSB, each having 108 CFU/ml @ 5 l/ha.) and sow dhaincha as a green manure at the time of planting. Also drench of jivamru @1500l/ha in three equal splits at 45, 60 and 75 DAP.

PI: Dr. A. R. Kaswala  
Co-PI: Dr. P. K. Dubey,  
Asso.: Dr. A. P. Italiya  
Dr. K. G. Patel



## 4.7.4 Extension Activities of the Department

### Khedut Shibir/Training organized by department

S.N.	Date	Place	Name of activity	Name of Faculty
1	04/10/2021	ACHF, NAU, Navsari	One day training programme on સેન્દ્રિય ખેતી માટે જાગૃતિ કાર્યક્રમ અને “ગુજરાતમાં સેન્દ્રિય ખેતીનાં સંશોધનોની સફર” પુસ્તક વિતરણ કાર્યક્રમ is organized by Organic farming Cell, Department of Natural Resource Management, ACHF, NAU, Navsari	Organic Farming Cell

## 4.7.5 Production of Planting Materials

S.N.	Planting Material	Crop and Cultivar	Quantity
1	Seed	Sugarcane, CoN 13073	24 t

## 4.8 Department of Social Sciences

### 4.8.1 Faculty Profile

S.N.	Name	Designation	Qualification	Date of Joining (Present Post)	Length of Service (Yrs.)	Specialization	BH
1	Dr. O. P. Sharma	Professor & Head	Ph.D.	16/02/2009	22	Agril. Ext. Education	12237
2	Dr. A. K. Leua	Associate Professor	Ph.D.	09/04/2008	16	Agril. Economics	12237
3	Mr. H. N. Chhatrola	Assistant Professor	M.Sc.	13/08/1987	34	Agril. Statistics	12237
4	Dr. D. J. Chaudhari	Assistant Professor	Ph.D.	13/01/2016	6	Agril. Economics	12237
5	Mr. G. V. Savani	Assistant Professor	M.A.	07/01/1998	24	English	11126-5
6	Mr. A. P. Chaudhary	Assistant Professor	M.Sc. (Agri.)	05/09/2019	02	Agril. Statistics	12237

### 4.8.2 Academic Activities

#### List of Courses Offered by Agril. Economics (As Per 5<sup>th</sup> Deans' Committee)

B.Sc. (Hons.) Horticulture						
S.N.	Sem.	Course No.	Title	Credits	Faculty	
1	I	SSC 1.1	Information and Communication Technology	2(1+1)	Mr. A. P. Chaudhary	
2	I	SSC 1.2	Economics & Marketing	3(2+1)	Dr. D. J. Chaudhari	
3	II	SSC 2.4	Elementary Statistics and Computer Application	3(2+1)	Mr. A. P. Chaudhary	
4	II	SSC 2.5	Communication Skill & Personality Development	2(1+1)	Mr. G.V. Savani	
5	V	SSC 5.7	Fundamentals of Extension Education	2(1+1)	Dr. O. P. Sharma	
6	VI	SSC 6.8	Horti. Business Management	2(2+0)	Dr. D. J. Chaudhari	
7	VI	SSC 6.9	Entrepreneurship Development & Business Management	2(1+1)	Dr. O. P. Sharma	
8	Even	NCC	NCC	4(2+2)	Mr. G. V. Savani	
<b>Total</b>				<b>20(12+8)</b>		

#### List of PG Courses Offered by the Department (As Per BSMA Committee)

M.Sc. & Ph.D. Horticulture						
S.N.	Sem.	Course No.	Title	Credits	Faculty	
1	Odd	Ag. Stat. 533	Statistical Methods for Crop Protection-I	3(2+1)	Mr. A. P. Chaudhary	
2	Even	Ag. Stat. 535	Statistical Methods for Crop Production-I	3(2+1)	Dr. Alok Shrivastav/ Mr. A. P. Chaudhary	
3	Odd	Ag. Stat. 536	Statistical Methods for Crop Production-II	3(2+1)	Mr. H. N. Chhatrola	
4	Odd	Ag. Stat. 539	Statistical Methods for Crop Improvement-I	3(2+1)	Mr. H. N. Chhatrola	
5	Even	Ag. Stat. 540	Statistical Genetics-II	3(2+1)	Mr. H. N. Chhatrola/ Mr. A. P. Chaudhary	
<b>Sub-total</b>				<b>15(10+5)</b>		

<b>Compulsory Non-Credit Courses (M.Sc. and Ph.D. Horticulture)</b>						
1	Odd	PGS 502	Technical writing and communication skill	1(0+1)	Dr. D. J. Chaudhari	
2	Even	PGS 505	Agril. Research, Research ethics and Rural Development Programmes	1(1+0)	Dr. O. P. Sharma	
<b>Sub-Total</b>				<b>2(1+1)</b>		
<b>Total</b>				<b>17(11+6)</b>		

#### 4.8.3 Research Activities

##### Research Recommendations

S.N.	Title of Experiment and Recommendation	Name of PI /Co-PI/ Associate
1	Title; Growth and instability analysis of area and production in forestry sector of Gujarat 'Special attention needs to be given to Surat, Gandhinagar, Junagadh, Valsad and Vadodara circles to increase the area under forest and tree cover whereas appropriate measures are needed to increase timber trees in Surat circle and fuel wood trees in Junagadh and Junagadh Wildlife circle.'	Dr. D. J. Chaudhari, Amit Lathiya and A. P. Chaudhary

##### Approved New Technical Programmes

S.N.	Title of NTP	Name of PI/Co-PI/Associate
1	Impact of National Horticulture Mission on Gujarat	Dr.Alpesh Leua, Dr. D. J. Chaudhari, Dr.Gautam Parmar, & Dr. Narendra Singh,
2	Socio-economic consequences of COVID-19 pandemic on farming community in South Gujarat	Dr. O. P. Sharma, Dr. D. J. Chaudhari, & The Senior Scientist/Scientist (Extension Education) of the concern KVK

#### 4.8.4 Infrastructure or Facilities available/created

S.N.	Infrastructure or Facilities available	Area/ No.
1	AV Laboratory of Agril. Extension Education	01
2	Laboratory of Agril. Economics	01
3	Computer Lab of Agril. Statistics	01
4	Computers in Computer Lab of Agril. Statistics	25

## 4.9 Department of Plantation, Spices, Medicinal and Aromatic crops

### 4.9.1 Faculty Profile

S.N.	Name	Designation	Qualification	Date of Joining (Present Post)	Length of Service (yrs.)	Specialization	B.H.
1	Dr. V. K. Parmar	Professor and Head	Ph. D. (Horticulture)	23/08/2019	14	Horticulture	6503
2	Dr. M. M. Patel	Associate Professor	Ph. D. (Horticulture)	11/05/2005	33	Horticulture	12244
3	Dr. B. S. Desai	Assistant Professor	Ph. D. (Botany)	22/06/2010	11	Ethnobotany & Medicinal Plants	12952
4	Dr. P. P. Bhalerao	Assistant Professor	Ph. D. (Horticulture)	02/03/2013	9	Fruit Science	2044

### 4.9.2 Academic Activities

#### List of Courses offered by the Department of PSMA for Post Graduate Programme (As per BSMA Committee)

M. Sc. Horticulture					
S.N.	Sem.	Course No.	Title of Course	Credit hrs.	Faculty
1	Odd	PSMA 501*	Production of plantation crops	2+1	Dr. P. P. Bhalerao
2	Even	PSMA-502*	Production Technology of Spice Crops	2+1	Dr. M. M. Patel
3	Odd	PSMA 503*	Production technology of medicinal and aromatic crops	2+1	Dr. M. M. Patel
4	Even	PSMA-504*	Breeding of Plantation Crops and Spice	2+1	Dr. S. K. Jha
5	Odd	PSMA 505*	Breeding of medicinal and aromatic crops	2+1	Dr. S. K. Jha
6	Even	PSMA506*	Processing of Plantation Crops, Spices, Medicinal and Aromatic Plants	2+1	Dr. N. V. Patel
7	Odd	PSMA 507	Organic spice and plantation crop production technology	2+1	Dr. M. M. Patel
8	Even	PSMA-508	Underexploited Medicinal and Aromatic Plants	1+1	Dr. B. S. Desai
9	Odd	PSMA 591	Master's Seminar	1+0	Concern guide
10	Even/Odd	PSMA 599	Master's Research	0+20	Concern guide

\*Compulsory (A)Sub Total

44 (16+28)

#### List of Courses offered by the Department of PSMA for Ph. D. Programme (As per BSMA Committee)

Ph.D. Horticulture					
S.N.	Sem.	Course No.	Title of Course	Credit hrs.	Faculty
1	Odd	PSMA 601**	Advances in production of plantation crops	2+1	--
2	Even	PSMA 602**	Advances in spice production	2+1	--
3	Odd	PSMA 603**	Advances in medicinal and aromatic crops production technology	2+1	--

4	Even	PSMA604	Advances in breeding of Plantation Crops and Spice	2+1	--
5	Odd	PSMA 605	Advances in breeding of medicinal and aromatic crops	2+1	--
6	Even	PSMA606	Biotechnology in plantation crops and spices	1+1	--
7	Odd	PSMA 607	Post harvest processing and extraction in medicinal and aromatic plants	2+1	--
8	Even	PSMA608	Environmental horticulture	2+1	--
9	Odd	PSMA 691	Doctoral Seminar-I	1+0	--
10	Even	PSMA 692	Doctoral Seminar-II	1+0	--
11	Even/ Odd	PSMA 699	Doctoral Research	0+45	--
<b>**Compulsory</b>			<b>Sub Total (A)</b>	<b>70 (17+53)</b>	<b>--</b>

### PG Students Enrolment in Masters' Programme

S.N.	Reg. No.	Name of Student	Title of the Research Programme	Major Guide
1	2020220001	Ahir Bhumika M.	Effect of IBA and growing media on growth and rooting of long pepper cuttings	Dr. M. M. Patel
2	2020220013	Hirpara Nihar A.	Effect of organic sources and bio-fertilizers on growth and yield of fenugreek	Dr. M. M. Patel
3	2020221040	Suvarna	Effect of foliar application of organics on growth and yield of coriander	Dr. P. P. Bhalerao

### RAC Meetings conducted by the Department

S.N.	Meeting Details			Proceeding No. and Date	Remarks
	No.	Date of meeting	Venue		
1	14 <sup>th</sup> RAC	28/01/2022	Conference Hall, ACHF	No. ACHF/Fruit.Sci./14 <sup>th</sup> RAC I Proc./92/2022 Navsari: Dt. 03/02/2022	Presentation of New Technical Programmes of 07 Ph.D. and 15 M.Sc. students

### 4.9.3 Research Activities

#### Research Schemes in Operation

S.N.	Research Project		Budget Head	Year of Start	Type of Scheme	PI & Co-PI
1	All India Coordinated Research Project on Palms		329/2044	2008-09	ICAR	Dr. Pankaj P. Bhalerao
2	Mission for Development of Horticulture	Integrated of	329/18930-1	2010-11	Other Agency	Dr. Pankaj P. Bhalerao

#### Objectives of the schemes

##### 1. All India Coordinated Research Project on Palms (BH: 329/2044)

- To identify, conserve and utilize elite genetic resources for useful traits in palms and cocoa from different agro-climatic regions and to evaluate performance of varieties/hybrids under different locations and to facilitate release of varieties/hybrids under different locations.
- To improve input use efficiency and develop location-specific palm based integrated farming systems to enhance the productivity per unit area and organic cultivation packages for palms and palm-based farming systems.
- To demonstrate and transfer of technologies to the farmers.

##### 2. Mission for Integrated Development of Horticulture (BH: 329/18930-1)

- Seed production programme of turmeric crop.
- Selling of produced seeds to the farmers/organization/institutes *etc.*



### Approved New Technical Programmes

S.N.	Title of NTP	Name of PI/Co-PI/Associate
1	Response of drip irrigation on growth and yield of D x T coconut ( <i>Cocos nucifera</i> L.) hybrid under south Gujarat condition	<b>PI:</b> Dr. P. P. Bhalerao <b>Co-PIs:</b> Dr. P. K. Shrivastava & Er. N. G. Savani

### 4.9.4 Extension Activities

#### Diagnostic visits at farmers' field

S.N.	Diagnostic Team	Name of Farmer and Address	Date
1	Dr. P. P. Bhalerao	Mrs. Narula Shah, Magod (Valsad)	07/04/2021
2	Dr. P. P. Bhalerao	Farmers of Umergam (Valsad)	24/05/2021
3	Dr. P. P. Bhalerao	Mr. Mihirbhai Desai (Abhrama, Navsari) Mr. Ajaybhai Desai (Abhrama, Navsari)	16/06/2021
4	Dr. P. P. Bhalerao	Mr. Rakeshbhai Patel, Ichhapore (Navsari)	16/10/2021
5	Dr. P. P. Bhalerao	Dr. Ajaybhai Patel, Sonwada Dungri, (Valsad) Mr. Mahendrabhai Chauhan (Borlai, Valsad)	24/12/2021
6	Dr. P. P. Bhalerao	Mr. Vivekbhai Goel (Kacholi, Navsari)	24/01/2022
7	Dr. P. P. Bhalerao	Mr. Abhasbhai Mukhi (Dhumas, Surat)	28/01/2022
8	Dr. B. S. Desai	Dr. Ajay Patel, At and Post Village – Rola, Dungri. Dist, Valsad (M): 9825829955	03/08/2021
9	Dr. B. S. Desai	Jitubhai Desai. At and Post. Village – Vedchha. Dist. Navsari (M): 9925664004	12/09/2021



Diagnostic field visit by Dr. P. P. Bhalerao at farmers field



Crop Advisory during Tau-k-tae Cyclone at farmer's field

### ***Khedut Shibir/Training organized by department***

S.N.	Date	Place	Name of activity	Name of Faculty
1	25/10/2021	KVK, Ambheti	Training organized on “INM in horticultural crops”	Dr. P. P. Bhalerao
2	16/03/2022	KVK, Ambheti	Training organized on “IPDM in horticultural crops”	Dr. P. P. Bhalerao



### **4.9.5 Production of Planting Materials**

S.N.	Planting Material	Crop and Cultivar	Quantity
1	Seed nuts	Coconut (DxT-F <sub>2</sub> )	6000 nuts
2	Seeds	EFY (Gajendra)	5000 kg
3	Seeds	EFY (Local)	5000 kg
4	Seed	Turmeric (GNT-1, GNT-2 and Sugandham)	7000 kg
5	Seed	Tannia (Local)	105 kg

#### **Planting Material Production Plots**



**Elephant Foot Yam**



**Tannia**



## 5. SEMINAR/CONFERENCE/WORKSHOP/TRAINING

### 5.1 Seminar/Conference/Workshop/Training/Convention organized by the college

S.N.	Type of Event	Title of Event	Days/Duration
1	Webinar	“High Density Planting in Mango: A New Approach	31/08/2021
2	Online workshop	“Intellectual Property Rights (IPR)- Patent and Designs Process”	27/10/2021
3	Workshop	Interactive workshop on Horti-Business Start-Ups	29/10/2021
4	Workshop	Interactive meet on Entrepreneurial Skills for Floriculture	31/12/2021
5	Scientific meet	18 <sup>th</sup> AGRESO meet of Horticulture Subcommittee	05-07/03/2022
6	Training	Skill Development Training on Flower Arrangement under Student Ready Program	10-11/03/2022
7	Exhibition	Indoor plant exhibition cum sale	27/10/2021
8	Exhibition	Winter Flower Fest	27-31/12/2022
9	Exhibition	Flower Arrangement Show	14/03/2022
10	Webinar	One day virtual National level webinar on “Recent Advances in Production Technology and Value Addition of Coconut”	09/08/2021
11	Training	Celebration of World Coconut Day by organizing training on ‘Value addition and making of articles from coconut fibre’	02/09/2021



Webinar on “High Density Planting in Mango: A New Approach on 31/08/2021



Online workshop on “Intellectual Property Rights (IPR)- Patent and Designs Process” on 27/10/2021



Interactive workshop on Horti-Business Start-Ups on 29/10/2021



Interactive meet on Entrepreneurial Skills for Floriculture on 31/12/2021





18<sup>th</sup> AGRESO meet of Horticulture Subcommittee was held on 05-07/03/2022 at ACHF



Skill Development Training on Flower Arrangement under Student Ready Program on 10-11/03/2022



Indoor plant exhibition cum sale on 27/10/2021



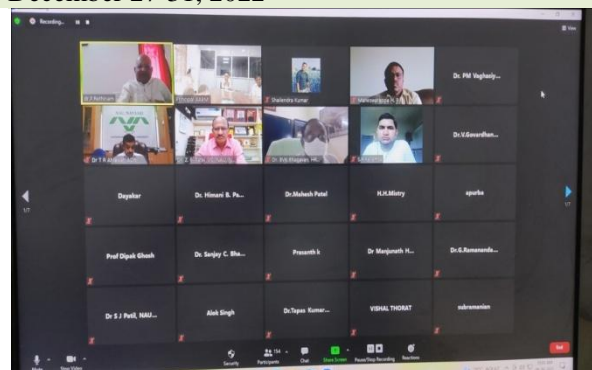
Winter flower Fest on 27-31/12/2022



Students activity during Winter flower Fest held on December 27-31, 2022



Flower Arrangement Show on March 14, 2022



National webinar on "Recent Advances in Production Technology and Value Addition of Coconut" on 09/08/2021



Celebration of WORLD COCONUT DAY by organizing training programme on 'Value addition and making of articles from coconut fibre' on 02/09/2021

**5.2 Seminar/Conference/Workshop/Training/Convention attended by the Faculty**

S.N.	Faculty	Event	Title of Event	Date/ Duration	Organizers
1	Dr. R. V. Tank	National Webinar	Recent Advances in production technology and value addition of coconut	09/08/2021	ACHF, NAU, Navsari
2	Dr. R. V. Tank	Online Workshop	Intellectual property rights (IPR)- Patent and Designs Process	27/10/2021	ACHF, NAU, Navsari
3	Dr A. K. Pandey	Seminar	2 <sup>nd</sup> Horticulture Summit 2022	27-29/04/2022	NAU, Navsari, Gujarat
4	Dr. Tulsi D. Gurjar	Training	Pollen viability and Pollen cryopreservation	06-11/12/2021	IIHR, Bangalore
5	Dr. Tulsi D. Gurjar	Webinar	Pollen viability and Pollen cryopreservation	27/10/2021	Dept. of Fruit Science, ACHF, NAU, Navsari
6	Dr. Tulsi D. Gurjar	Webinar	Canopy Architecture Management in Perennial Commercial Horticultural Crops	19-20/07/2021	College of Horticulture, Bidar, Karnataka
7	Dr. Tulsi D. Gurjar	Webinar	Recent Advances in Production Technology and Value Addition of Coconut	09/08/2021	AICRP (Palms) RHRS, ACHF, NAU, Navsari
8	Dr. Tulsi D. Gurjar	Webinar	<i>Polyhousenapakoma rog-jivatvyavsthan</i>	23/07/2021	Dept. of Plant Pathology, B. A. College of Agriculture and NAHEP-CAAST, AAU, Anand
9	Dr. Tulsi D. Gurjar	Webinar	Advancement in Fruit Production Technologies- Present Situation and Future Strategies	14/09/2021	Dept. of Fruit Science, Bidhan Chandra Krishi Vishvavidhyalaya, Mohanpur, Nadia, West Bengal
10	Prof. Dixita Prajapati	Webinar	Advancement in Fruit Production Technologies- Present Situation and Future Strategies	14/09/2021	Dept. of Fruit Science, Bidhan Chandra Krishi Vishvavidhyalaya, Mohanpur, Nadia, West Bengal
11	Prof. Dixita Prajapati	Webinar	Recent Advances in Production Technology and Value Addition of Coconut	09/08/2021	AICRP (Palms) RHRS, ACHF, NAU, Navsari
12	Prof. Dixita Prajapati	Webinar	Canopy Architecture Management in Perennial Commercial Horticultural Crops	19-20/07/2021	College of Horticulture, Bidar, Karnataka
13	Dr. P. D. Solanki	Webinar	Recent Advances in Production Technology and	09/08/2021	AICRP (Palms) RHRS, ACHF, NAU, Navsari





			Value Addition of Coconut		
14	Dr. P. D. Solanki	Training	Recent Extension Approaches for Effective Transfer of Technology	20-22/10/2021	Jointly organized by DEE, NAU, Navsari and EEI, Anand at Navsari
15	Dr. V. K. Parmar	National Webinar	Secondary Agriculture for Agricultural Income Enhancement	09/04/2021	MPUAT, Udaipur, Rajasthan
16	Dr. V. K. Parmar	National Webinar	Impact of Covid-19 on aspects of Organic Farming, Soil Health and Food Security	01/05/2021	--
17	Dr. V. K. Parmar	National Webinar	Canopy Architecture Management in Perennial Commercial Horticultural Crops	19-20/07/2021	College of Horticulture, Bidar , Karnataka
18	Dr. V. K. Parmar	National Webinar	Recent Advances in Production Technology and Value Addition of coconut	09/08/2021	ACHF, NAU, Navsari
19	Dr. Y. N. Tandel	Webinar	"Canopy Architecture Management in Perennial Commercial Horticultural Crops"	19-20/07/2021	College of Horticulture, UHS, Bagalkot
20	Dr. Y. N. Tandel	Webinar	"Invasive Pests and Diseases Problems in Indian Agriculture"	07/08/2021	NMCA, NAU, Navsari
21	Dr. Y. N. Tandel	Webinar	"Recent Advances in Production Technology and Value Addition of Coconut"	09/08/2021	AICRP and RHRS, NAU, Navsari.
22	Dr. C. G. Intwala	Conference	Sugarcane research: Sugarcane for sugar and beyond (CaneCon2021)	19-22/06/2021	ICAR- Sugarcane Breeding Institute, Coimbatore, Tamil Nadu, India
23	Dr. D. R. Bhandari	National Webinar	Statistics for Food Security and Promoting Sustainable Agriculture"	29/06/2021	Dept. of Agricul. Statistics, NMCA, NAU, Navsari
24	Dr. D. R. Bhandari	National Webinar	"Recent Advances in Production Technology and Value Addition of Coconut"	09/08/2021	ACHF, NAU, Navsari
25	Dr. Himani B. Patel	Webinar	58 <sup>th</sup> Foundation day celebrations of AICRPTC, Thiruvananthapuram, Kerala	23/07/2021 through online mode (2.30 to 4 p.m.).	AICRPTC, Thiruvananthapuram, Kerala
26	Dr. Himani B. Patel	National Seminar	'Horticulture for next generation in eastern India'	05-06/08/2021	Bihar Agricultural University, Sabour, Bhagalpur
27	Dr. Himani	National	"Role of farmer	12/08/2021	AABMI, NAU, Navsari



	B. Patel	Webinar	producer organizations (FPOs) in linking farmers to markets"			
28	Dr. Himani B. Patel	Virtual national Seminar	Advances in sustainable management of natural resources for food and nutritional security'	26-27/08/2021	NAU, Navsari	
29	Dr. Himani B. Patel	Short Course Training	"Novel Processing and Value Addition Technologies for Augmenting Entrepreneurial Opportunities in Tuber Crops"	15-24/02/2022	ICAR- Central Tuber Crops Research Institute Sreekariyam, Thiruvananthapuram, Kerala	
30	Dr. Himani B. Patel	Workshop	21 <sup>st</sup> Annual Group Meeting of ICAR-AICRP on Tuber Crops	27-28/05/2021	ICAR- Central Tuber Crops Research Institute Sreekariyam, Thiruvananthapuram, Kerala	
31	Prof. Hetal R. Rathod	Webinar	Advances in sustainable management of natural resources for food and nutritional security	26-27/08/2021	COH, SDAU, Jagudan	
32	Dr. A. I. Patel	Webinar	Significance of Yoga during COVID-19 pandemic	16/06/2021	DSW, NAU, Navsari	
33	Dr. A. I. Patel	Virtual Training	Recent Trends in Cultivation, Processing and Value Addition of Few Important MAPs	07-10/06/2021	NAHEP-CAAST sub-project, NAU, Navsari	
34	Dr. A. I. Patel	Online workshop	Opportunities for Innovation and Entrepreneurship in Agriculture	13/07/2021	NAHEP-CAAST sub-project, NAU, Navsari	
35	Dr. A. I. Patel	Webinar	Quarantine procedures for the national and International exchange of plant materials	12/08/2021	ICAR-Sugarcane Breeding Institute (Research Centre), Kannur, Kerala	
36	Dr. A. I. Patel	National Webinar	Recent advances in production technology and value addition of coconut	09/08/2021	ACHF, NAU, Navsari	
37	Dr. A. I. Patel	International Webinar	Advances in chickpea improvement and impacts of improved varieties on chickpea production	08/08/2021	Plantgenomia	
38	Dr. A. I. Patel	Virtual National	Advances in sustainable	26-27/08/2021	NAHEP-CAAST sub-project, NAU, Navsari	



		Seminar	management of natural resources for food and nutritional security		
39	Dr. A. I. Patel	National Webinar	Conservation of Agrobiodiversity for Ensuring Food and Nutritional Security in India	18/08/2021	MPUAT, Udaipur (Rajasthan)
40	Dr. A. I. Patel	Online Workshop	Intellectual Property Rights (IPR)-Patent and Designs Process	27/10/2021	ACHF, NAU, Navsari
41	Dr. J. M. Vashi	Webinar	Recent advances in production technology and value addition of coconut	09/08/2021	AICRP on Palms, ACHF, NAU, Navsari
42	Dr. N. V. Patel	National level higher training	Sustainable development of secondary agriculture: Economical, Food nutritional and livelihood perspective	16/01/2021 to 05/02/2021 (21-days)	NAHEP-CAAST, ICAR, New Delhi
43	Dr. N. V. Patel	National level webinar	Significance of Yoga during COVID-19 pandemic	16/06/2021	DSW, NAU
44	Dr. N. V. Patel	International conference	Advances in agriculture, environmental and biosciences for sustainable development	05-07/08/2021	AEDS (UP), NABARD (MP), COHF (AP), CAIE (MP)
45	Dr. N. V. Patel	National webinar	Recent advances in production technology and value addition of coconut	09/08/2021	AICRP (Palms), RHRS, ACHF, NAU
46	Dr. N. V. Patel	National webinar	Severe acute malnutrition	12/08/2021	ASSOCHAM, New Delhi
47	Dr. N. V. Patel	National meet	Agripreneurship: Present opportunities and future prospects	02-04/03/2022	NAHEP-CAAST sub-project, NAU, Navsari
48	Dr. N. V. Patel	National level Hackathon	Smart and remunerative farming	05/03/2022	NAHEP-CAAST sub-project, NAU, Navsari
49	Dr. Hemant Sharma	Webinar	Bee Engaged: Build Back Better for Bees	20/05/2021	MPAUT, Udaipur (Raj.)
50	Dr. Hemant Sharma	Webinar	Our solutions are in nature	22/05/2021	MPAUT, Udaipur (Raj.)
51	Dr. Hemant Sharma	Webinar	Trichoderma: A Potential Bioagent for Entrepreneurship under Organic Farming	25/06/2021	SKNAU, Jobner (Raj.)
52	Dr. Hemant Sharma	Webinar	Microbial Biopesticides: Next Generation Preparedness	02/07/2021	Assam Agril. University, Jorhat, Assam



53	Dr. P. R. Patel	Webinar	Polyhouse na pakoma rog- jivat vyavsthapan	23/07/2021	AAU, Anand
54	Dr. P. R. Patel	Webinar	Invasive pests and diseases problem in Indian Agriculture	07/08/2021	NAU, Navsari
55	Dr. P. R. Patel	Webinar	Recent advances in production technology and value addition of coconut	09/08/2021	NAU, Navsari
56	Dr. P. R. Patel	Seminar	Maintenance of quality and safety of horticultural and food crops through biological control of pests and diseases	30/12/2021	NAU, Navsari
57	Dr. Snehal Patel	National Webinar	Beekeeping: Opportunities and Challenges	20/05/2021	Sher e Kashmir University of Agricultural Sciences and Technology of Jammu, J & K (UT)
58	Dr. Snehal Patel	State level Webinar	Madhmakhi palan	19/06/ 2021	Anand Agricultural University and NAHEP
59	Dr. Snehal Patel	State level Webinar	Polyhouse na pakoma rog-jivat vyavsthapan	23/07/2021	Anand Agricultural University and NAHEP-CAAST
60	Dr. Snehal Patel	State level Seminar	Maintenance of the Quality and Safety of Horticultural and Food Crops through Biological Control of Pests and Diseases	30/12/2021	PPAG and Navsari Agricultural University, Navsari
61	Dr. A. R. Kaswala	Virtual National Seminar	Advances in Sustainable Management of Natural Resources for Food and Nutritional Security	26-27/08/2021	Dept. SSAC, NMCA, NAU, Navsari
62	Dr. P. K. Dubey	"	"	"	"
63	Dr. A. P. Italiya	"	"	"	"
64	Dr. Smita Gupta	Seminar	Participated in National conference on "Strategic reorientation for climate smart agriculture,V-AGMET-2021	Two days	Association of Agrometeorologist, PAU,Ludhiana.
65	Dr. Smita Gupta	Conference	Gave oral presentation on "Economic impact assessment of the Agrmeteorological advisory service of Western Uttar	Two days	Association of Agrometeorologist, PAU,Ludhiana.
66	Dr. Smita Gupta	Webinar	Participated in International webinar on "Wetland System "	One day	Department of Environmental Science,School of Earth





on 2<sup>nd</sup> February 2021

Sciences Punyashlok  
Akhiyadevi  
Holkar, Solapur  
University.

67	Dr. A. R. Kaswala	Winter School	Sustainable Development of Secondary Agriculture: Economical, Food & Nutritional and Livelihood Perspective (Online Training)	21 days	NAHEP-CAAST sub-project, NAU, Navsari
68	Dr .P. K. Dubey	“	“	“	“
69	Dr. A. P. Italiya	“	“	“	“
70	Dr. Smita Gupta	Online training	Attended one week online training program on soft skills to enhance professional efficiency and effectiveness	One week (7 days)	Organized by CAAST and water management (CAAST-CASAM) and department of Agricultural Extension and communication
71	Dr. D. J. Chaudhari	National Webinar	Rural financial Inclusion and Farmer Producer Organizations in India: Status and Challenges	01/07/2021	Agro-Econmic Research Centre, SP University, Vallagh Vidya Nagar, Anand
72	Dr. D. J. Chaudhari	National Webinar	Role of Farmer Producer Organizations (FPOs) in linking farmers to Market'	12/08/2021	AABMI, NAU, Navsari
73	Dr. D. J. Chaudhari	National Seminar	Advances in sustainable management of natural resources for food and nutritional security” and presented a paper (Oral) entitled ‘Status of food production in India’	26-27/08/2021	Dept. of SSAC, Agronomy, CAAST and ICAR at NAU, Navsari
74	Dr. D. J. Chaudhari	Three days Training	Recent Extension Approaches for Effective Transfer of Technology” organized by EEI, Anand and DEE, NAU, Navsari	20-22/10/2021	AITIC, NAU, Navsari
75	Mr. A. P. Chaudhary,	21 Days training	National training on “Opportunities In Agriculture, Animal Husbandry & Allied	21 days	Online



			Sectors Sustainable Entrepreneurship & Livelihood Security”	For	
76	Dr. P. P. Bhalerao	Webinar	Canopy Architecture Management in Perennial Commercial Horticultural Crops	19-20/07/2021	College of Horticulture, Bidar (University of Horticultural Sciences, Bagalkot, Karnataka)
77	Dr. P. P. Bhalerao	Workshop	Intellectual Property Rights(IPR) Patent and Designs Process”	27/10/2021	Dept. of Fruit Sci., ACHF, NAU, Navsari
78	Dr. P. P. Bhalerao	Seminar	Horticulture for next generation in eastern India	05-06/08/2021	Bihar Agril. Uni., Sabour, Bhagalpur, Bihar
79	Dr. P. P. Bhalerao	Webinar	Recent advances in production technology and value addition of coconut	09/08/2021	AICRP (Palms), ACHF, NAU, Navsari
80	Dr. B. S. Desai	National Conference (Online)	Value Addition and Marketing of NTFP's	16/12/2021	TFRI, Jabalpur (RJ)
81	Dr. B. S. Desai	Conference (Online)	International Conference on Biodiversity: Exploration and Conservation for Sustainable Development	04/01/2022	Dept. of Botany, Pandit Deendayal Upadhyay Univ. Assam

### 5.3 Council/ Committee Meetings attended by Faculty

S.N.	Faculty	Meeting Details	Date	Place
1	Dr. R. V. Tank	11 <sup>th</sup> Board of Studies meeting of Faculties of Horticulture and Forestry	13/01/2022	Conference Hall of ASPEE College of Horticulture & Forestry
2	Dr. B. M. Tandel	Committee member in District Mission Committee, Director of Horticulture, Navsari	Regular member (Six-monthly meetings)	DDO Office, Navsari
3	Dr. B. M. Tandel	Committee member in ATMA conversions meeting	Regular member (Tri-monthly meeting)	ATIC, Navsari
4	Dr. B. M. Tandel	Committee member in T and V bimonthly meeting organized by DEE, Navsari	Regular member	ATIC, Navsari
5	Dr. V. K. Parmar	Committee member Void of saplings of fruit crops	29/04/2021	RHRS, ACHF, NAU
6	Dr. V. K. Parmar	Board of studies for Faculty of Horticulture and Forestry	05/08/2021	Conference Hall, ACHF, NAU
7	Dr. V. K. Parmar	Stock verification of University Library	22/10/2021	University Library, NAU, Navsari
8	Dr. V. K. Parmar	PG and Ph. D. Thesis-Research work Evaluation	10/12/2021	Conference Hall, ACHF, NAU
9	Dr. V. K. Parmar	Purchase of mango saplings	-	-
10	Dr. V. K. Parmar	Best ATMA farmers Awards 2021-22	-	-



11	Dr. V. K. Parmar	Beautification committee for Accreditation	-	-
12	Dr. D.R. Bhandari	5 <sup>th</sup> Meeting of Board of Studies, Faculty of Agriculture	15/07/2021	NAU, Bharuch
13	Dr. D.R. Bhandari	Pre Vibrant Gujarat Event 2021, AAU, Anand	14/12/2021	AAU, Anand
14	Dr. Himani B. Patel	Annual Group Meeting of AICRPTC	27-28/05/2021	Online mode
15	Dr. N. V. Patel	Member of SRC committee : SRC activities	05/10/2021	Conference hall, ACHF, NAU
16	Dr. N. V. Patel	Member of SRC committee : Funding for gym renovation	16/11/2021	Conference hall, ACHF, NAU
17	Dr. N. V. Patel	Member of SRC committee : Selection of GS, LR, Sports and cultural activity representatives, ASPEE alumni association	20/11/2021	Conference hall, ACHF, NAU
18	Dr. N. V. Patel	Member of gender committee : General meeting	25/11/2021	Conference hall, ACHF, NAU
19	Dr. N. V. Patel	Member of SRC committee : Expenditure	09/03/2022	Dean office, ACHF, NAU
20	Dr. N. V. Patel	Member of SRC committee : Screening of cultural programmes	14-17/03/2022	College of Forestry, ACHF, NAU

## 6. PUBLICATIONS/ ACHIEVEMENTS BY FACULTY

### 6.1 Practical Manuals/Instructional Materials

S.N.	Course No.	Title of the Course	Name of Faculty	Department
1	PPT 4.4	Diseases of Fruit, Plantation, Medicinal and Aromatic Crops	Dr. P. R. Patel, Dr. V. P. Prajapati and Dr. Hemant Sharma	Department of Plant Protection
2	PGS 502	Technical Writing and Communications Skills	Dr. S. N. Saravaiya	Vegetable Science

### 6.2 Research Papers

S.N.	Research Papers	NAAS Score
1	H. J. Christian, R. V. Tank, D. R. Bhandari, K. N. Rathwa and M. V. Patel (2022). Response of foliar spray of nutrients on flowering and fruit set in sapota cv. Kalipatti. <i>The Pharma Innovation Journal</i> , 11(1):194-197	5.23
2	Prananath Barman, Raj Kumar and Avnish Kumar Pandey (2021), Can canopy management increase quality fruit production in <i>Syzygiumcumini</i> (L.) Skeels. <i>European Journal of Horticultural Science</i> , 86(4), 371-383	7.18
3	A. K. Pandey, Khalasi Devang N., S. Kumar T. R. Ahlawat and Shailendra K. Dwivedi (2021) Accumulation of essential nutrients by various cultivars of mango ( <i>Mangifera indica</i> L.) during different growth stages. <i>Progressive Horticulture</i> , 53 (1): 36-40	4.50
4	Jesal R. Patel, Sanjeev Kumar, A. K. Pandey, N. B. Patel and J. M. Mayani (2021) Interactive Effects of Silicic Acid and NOVEL on Tomato Performance under Protected Conditions. <i>Current Journal of Applied Science and Technology</i> . 39(46): 50-57	4.68
5	Patel Jesal R., Sanjeev Kumar and A. K. Pandey (2021). Studies on silicon and organic liquid nutrient spray on tomato under protected environment. <i>Progressive Horticulture</i> , 53(1):63-69	4.50
6	Y. N. Tandel; Ankita Mantri, S. N. Saravaiya and Archana Mahida (2021). Growth performance and changes in physiological attributes of khirni ( <i>Manilkara hexandra</i> L.) seedlings under salinity stress. <i>Journal of Asian Agriculture</i> (Renamed as <i>Indian Journal of AgriVet Research</i> ), 1(2): 66-75.	-
7	N. R. Patel, Y. N. Tandel and S. B. Patel (2021) Effect of seed scarification and priming treatments on seedling growth, survival and vigour index of sapota. <i>The Pharma Innovation Journal</i> , 10 (4): 1105-1109.	5.23
8	Sarvaiya, J. P.; Saravaiya, S. N.; Patel, H. S. and Tandel, Y. N. (2021) Response of vegetable cowpea [ <i>Vigna unguiculata</i> (L.) Walp.] to foliar application of PGRs. <i>International Journal of Current Microbiology and Applied Sciences</i> , 10 (07): 293-300.	5.38
9	Sarvaiya, J. P.; Saravaiya, S. N.; Patel, H. S. and Tandel, Y. N. (2021) Effect of PGRs on quality and yield traits of vegetable cowpea [ <i>Vigna unguiculata</i> (L.) Walp.]. <i>International Journal of Current Microbiology and Applied Sciences</i> , 10 (07): 283-292.	5.38
10	Jayanth S; DR Bhandari; SL Chawla; AI Patel; SN Saravaiya and SG Sakriya (2021). Screening of okra genotypes across environments for resistance against shoot and fruit borer, yellow vein mosaic virus and enation leaf curl virus. <i>The Pharma Innovation Journal</i> , 10(11): 407-413.	5.23
11	Patel, Himani B., Saravaiya, S. N. and Desai, K. D. (2021) Organic farming technologies in elephant foot yam. <i>Guj. J. Ext. Edu.</i> , 32 (2): 169-171.	4.96
12	Chawla, S. L., Patel R. B., Dhaduk, B. K., Patil Sudha and Bhatt Dipal. (2021) Varietal assessment of chrysanthemum ( <i>Dendranthemagrandiflora</i> ) under south Gujarat agro-climatic conditions. <i>Current Horticulture</i> , 9(2): 64-67	4.53
13	Gurjar, R. A., Chawla S. L., Patel D. P., Pawar, R. D. and Ahir, T. R. (2021) Interaction effect of land configuration and nutrient management on growth, quality and yield of chrysanthemum ( <i>Dendranthemagrandiflora</i> Tzvelev) var. Thai Chen Queen. <i>Int. J. Curr.</i>	-



	<i>Microbiol. App. Sci.</i> , 10(01): 1429-1435	
14	Ahir T. R., Chawla, S. L., Bhatt S.T., Dipal S. Bhatt, Patel G. D. and Gurjar R. A. (2021) Response of various planting dates and varieties on performance of China Aster under South Gujarat. <i>Int. J. Curr. Microbiol. App. Sci.</i> , 10(02): 2025-2033.	-
15	Ugale Hemant, Alka Singh, T. R. Ahlawat, NeelimaPalagani and H.P. Shah. (2021) Evaluation of different varieties and stages of harvest in rose ( <i>Rosa</i> spp.) for dry flowers. <i>Agricaqua Science Research Journal</i> , 2 (2): 47-50.	-
16	S. D. Chaudhari, SushilSaxena and Alka Singh. (2021) Reaction of various rose varieties to major pests under greenhouse conditions. <i>J. Applied Zool. Res.</i> , 32(1):67-70.	5.51
17	S. M. Vamaja, Dipal S. Bhatt, S. T. Bhatt, S. L. Chawla, M. A. Patel and S. M. Patel. (2021) Effect of mulching on growth, flowering and yield of chrysanthemum ( <i>Chrysanthemum morifolium</i> Ramat.) cv. Ratlam Selection. <i>J. Crop and Weed</i> , 17(3): 233-236.	5.46
18	Solanki, K. S., Patel, G. D., Bhatt, S. T. and Chaudhary, V. M. (2021) Turf establishment quality as affected by planting density and variety of Doobgrass ( <i>Cynodon dactylon</i> L.). <i>The Pharma Innovation Journal</i> , 10(12): 1110-1113.	5.23
19	Vidyashree S., SudhaPatil (2021) Seed Packaging and Priming in Ornamental Plants. <i>Environment and Ecology</i> , 39(4): 769—774	5.25
20	Pawar, R. D., Chawla S. L., Patil S. J., Sudha Patil and Gurjar R. A. (2021) Physiological studies in chrysanthemum genotypes. <i>Journal of Ornamental Horticulture</i> , 24(1): 22-27.	3.48
21	Chalak, S. U., Patil, S. J. and Chawla, S. L. (2022) Phenologicalbehaviour of mango varieties under South Gujarat conditions. <i>The Pharma Innovation Journal</i> , 11(4): 321-325.	5.23
22	Parvathi Bennurmth, Dipal S. Bhatt, Anamika Gurung, Alka Singh and S. T. Bhatt. (2021) Novel green approaches towards utilization of flower waste: A review. <i>Environment Conservation Journal</i> , 22(3):225-230.	5.66
23	Parvathi Bennurmth, Dipal S. Bhatt, Harish M Patil and Sudha Patil. (2021) Variability and correlation analysis for yield and related traits in chrysanthemum, <i>Agric. Res. J.</i> , 58(5): 845-850.	5.44
24	Nilam V. Patel, J. M. Mayani, Dev Raj and T. R. Ahlawat (2021). Standardization of technology for preparation of candy from ripe papaya ( <i>Carica papaya</i> Linn.) fruits. <i>Biological Forum- An International Journal</i> . 13 (3b): 139-143.	5.30
25	Bharai, R. B.; Dev Raj; Mayani, J. M.; Patel, N. V. And Naik, P. R. (2021). Effect of enzyme concentration and treatment time on sapota juice clarity, sedimentation and overall acceptability. <i>The Pharma Innovation Journal</i> . 10 (12): 1030-34.	5.23
26	Bana, J. K., Ghoghari, P. D., Kalaria, G. B., Saxena, S. P., Sharma, H., Singh, P., and Patil, S. J. (2021). Survey and Surveillance of Pollinators in mango ecosystem. <i>Pest Management in Horticulture Ecosystem</i> , 27(1): 11-15.	5.05
27	Vinu Ahir and Hemant Sharma (2021). Diversity of seed borne Mycota associated with finger millet and their effects on seed germination and seedling vigour. <i>International Journal of Chemical Studies</i> , 9(2): 603-606.	--
28	Hemant Sharma and J.K. Bana (2021). Cost Effective management of post-harvest anthracnose of mango by pre-treatments. <i>Ann. Pl. Protec. Sci.</i> , 29 (3): 210-212.	4.11
29	Tandel, Roma; Patel, Snehalben and Pandya, H.V. (2020) Population dynamics of citrus psylla, <i>Diaphorina citri</i> Kuwayama in relation to abiotic factor. <i>International Journal of Chemical Studies</i> 8(6): 2112-2116.	5.31
30	Patel Niyati; Patel Snehal; Pandya H.V.; Saxena S.P.; Chawla S.L. and Patil Sudha (2020) Field evaluation of botanical extracts against lily caterpillar ( <i>Polytela gloriosae</i> Fabricius) infesting spider lily. <i>Journal of Entomology and Zoology Studies</i> . 8(3): 1884-1887.	5.53
31	Kapadia Chintan (2021) Formation of recombinant bifunctional fusion protein: A newer approach to combine the activities of two enzymes in a single protein Plos One 17(4): e0265969.	9.24
32	Kapadia Chintan (2021) Sequential sterilization of banana ( <i>musa</i> spp.) Sucker tip reducing microbial contamination with highest establishment percentage <i>Bangladesh</i>	6.31

33	Kapadia Chintan (2021) Halotolerant Microbial Consortia for Sustainable Mitigation of Salinity Stress, Growth Promotion, and Mineral Uptake in Tomato Plants and Soil Nutrient Enrichment Sustainability, 13, 8369	9.25
34	Kapadia Chintan (2021) Nanoparticles combined with cefixime as an effective synergistic strategy against Salmonella enterica typhi Saudi Journal of Biological Sciences 28: 4164-4172	10.22
35	Kapadia Chintan (2021) Genetic diversity analysis of sweet potato [ipomoea batatas (L.) Lam.] Germplasms through RAPD and ISSR markers Bangladesh J. Bot. 50(1): 119-129.	6.31
36	Kapadia Chintan (2021) Diverse Novel Bacterial Endosymbionts and their Plant Growth Promoting Traits in association with Banana Plant International Journal of Current Microbiology and Applied Sciences (10) 02.	--
37	Diwakar Singh, Kiran P. Suthar (2021) Nutritional and phytochemical profiling of nutraceutical finger millet (Eleusine coracana L.) genotypes. Food Chemistry, 341, 128271	12.31
38	Modi, S., Kumar, S. and Dubey, P. K. (2021). Dynamics of chitosan based NPK-nanofertilizers in greenhouse cucumber production system. J. Environ. Biol., 42, 162-168.	6.56
39	M. V. Chaudhary., O. P. Sharma and K. L. Chaudhary (2021) Constraints as Perceived by the Members in availing services of Cooperative Societies in South Gujarat. International journal of Current Microbiology and Applied Sciences (IJCMAS), 10(1).	-
40	Pandya, A. M. and Sharma, O. P. (2022) Problems as avowed by Agri-Preneurs and suggestions to overcome them in social entrepreneurship. The Pharma Innovation Journal, 11(1S):04-06	-
41	Pandya, A. M. and Sharma, O. P. (2022) Relationship between the Profile of Farmers and Agri-Preneurs and their perception about Social Entrepreneurship in South Gujarat. The Pharma Innovation Journal, 11(1S):715-716, Jan. 2022	-
42	Chaudhari, D.J, Lathiya, A. and Chaudhary, A.P. (2021) Growth and variability in production of forest produce in Gujarat state. The Pharma Innovation Journal, SP-10(9): 804-809	-
43	P. P. Bhalerao, H. P. Maheswarappa and S. Sumitha (2021). Effect of integrated nutrient management on coconut (Cocos nucifera) based cropping systems in south Gujarat. Current Horticulture, 9(2): 52-55.	4.53
44	Patel D. V., Bhalerao P. P. and Tandel B. M. (2022). Effect of micronutrient application on growth, yield and quality of turmeric (Curcuma longa L.) cv. GNT-2. International Journal of Agriculture Sciences, 14(1): 11043-11045.	4.58
45	Malek, S. S., Prajapati, V. M. and Desai, B. S. (2021). Enumeration of the host plants of Dendrophthoe falcata (L.f.) Ettingsh Var. falcata at Navsari Agricultural University campus, Gujarat. Journal of Tropical Forestry, 37(I-II): 54-62.	-
46	Patel, M. H., Patel, A. I., Desai, B. S., Jha, S. K., Patel, D. P. and Tandel, M. B. (2021). Genetic Variability, Heritability and Genetic Advance Studies in Gloriosa superba Linn. International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 Volume 10 Number 02 (2021)	-
47	Ram Mayur L., B. S. Desai, Sumankumar S. Jha, D. P. Patel and H. T. Hegde. Feb. (2022). Effect of Different Seed Treatments and Media on Growth and Biomass of Indian Cheese Maker- Withania coagulans (Stocks) Dunal. International Journal of Economic Plants, 9(1):006-010	4.37
48	Minal H Patel, Payal C Patel, Soufil S Malek, Ram Mayur L, Bimal S Desai, Vipul B Parekh and SK Jha. January (2022) Model Nursery of Medicinal and Aromatic Plants at NAU, Navsari: Initiative towards production of quality planting material & conservation of herbal resources. The Pharma Innovation Journal SP-11(1): 1198-1206	5.23
49	Ram Mayur L, Soufil Malek, Minal H Patel, BG Vashi, Vipul B Parekh, Vijay M Prajapati, B S Desai and Suman Kumar Jha. (2022) Conservation of few threatened NTFP's (Trees) of South Gujarat. The Pharma Innovation Journal SP-11(1): 338-341	5.23
50	Keyur Rathod, Ram Mayur L, Rakesh Jaliya, Ravindra Dhaka, Sumankumar Jha and Bimal S Desai. (2022) Oroxyllum indicum: Ethnobotany, phytochemistry and therapeutic uses. The Pharma Innovation Journal SP-11(1): 200-203.	5.23

- 51 Keyur Rathod, Ram Mayur L, Dhaval Pajapati, Ravindra Dhaka, RakeshM Jaliya, Sumankumar S Jha, Bimal S Desai and Jignesh Rot. *Sterculia urens*: Traditionally important medicinal tree. *Journal of Medicinal Plants Studies* 10(1): 23-26

### Summary of research paper publications in NAAS rated journals

Particulars of NAAS rated articles	Category	Total Numbers
No. of research articles in high impact journals (NAAS rating of over 7.0 )	National	04
	International	01
No. of research articles having NAAS rating of between 5.0 to 7.0	National	18
	International	06
No. of research articles having NAAS rating of below 5.0	National	13
	International	--
<b>Total</b>		<b>42</b>

## 6.3 Conference Papers

S.N.	Conference Papers
1	Gupta,S.,Kumar, A.,Shahi, U. P., Singh, A and Prasad, G (2021).Economic impact assessment of the agrometeorological advisory service of Western Uttar Pradesh published in conference proceeding of V-AGMET held at PAU Ludhiana between 17 to 19 <sup>th</sup> March, pp-164-167.
2	A. R. Kaswala, P. K. Dubey, A. P. Italiya and K. G. Patel (2021). Response of in-situ farm residue decomposition on yield of banana and soil properties under organic farming accepted for Virtual National seminar on " Advances In Sustainable Management of Natural Resources For Food And Nutritional Security" during 26-27 August, 2021 organized by Department of Soil Science & Agricultural Chemistry and Department of Agronomy, N. M. College of Agriculture, NAU, Navsari In Association with ISSS, Navsari Chapter, ISA Navsari Chapter and CAAST and Sponsored by NAHEP.

## 6.4 Books

S.N.	Books	ISBN
1	Sanjeev Kumar; S. N. Saravaiya, S. N. and Pandey, A. K. 2021. <i>Precision Farming and Protected Cultivation: Concepts and Applications</i> . JAYA Publishing House, Delhi, 332p.	978-93-90309-65-8
2	Pranava Pandey, Pandey, A. K and Sanjeev Kumar S. (2022). Horticulture Basic Principals and Recent Approaches. NEW INDIA PUBLISHING AGENCY New Delhi – 110 034 .	978-93-89130-00-0
3	F. M. Sahu, A. K. Senapati, N. V. Patel and Dev Raj (2022). Book of research abstracts: Post Harvest Technology (2004-2021). Dept. of PHT, ACHF, NAU, Navsari. 55p.	Uni. Pub. No. : 143/2021-22

## 6.5 Booklets

S.N.	Booklets	Publication No.
1	Alka Singh and R. V. Tank. 2021-22. An Overview Experiential Learning Programme in Horticulture (2016-2020).	University Publication No. 13/2021-22.
2	Alka Singh and R. V. Tank. 2021-22. Compendium of PG Seminar Gists (Horticulture, Year 2016-2022)	University Publication No. 14/2021-22.

## 6.6 Book Chapters

S.N.	Book Chapters	ISBN
1	Avnish Kumar Pandey, Akash Gaurav Singh, Ankit R. Gadhiya, Sanjeev Kumar, Diwakar Singh and Reetu Mehta (2021). Current approaches in horticultural crops to mitigate waterlogging stress. (Ed), Stress Tolerance in Horticultural Crops Challenges and Mitigation Strategies. Woodhead Publishing is an imprint of Elsevier,United Kingdom.pp289-299	978-0-12-822849-4
2	Himanshu Pandey, Diwakar Singh, Avnish Kumar Pandey, Kiran P. Suthar,	978-0-12-822849-4

	Reetu Mehta and Devendra Pandey (2021). Current approaches in horticultural crops to mitigate the effect of cold stress (Ed), Stress Tolerance in Horticultural Crops Challenges and Mitigation Strategies. Woodhead Publishing is an imprint of Elsevier, United Kingdom.pp241-257	
3	A. K. Pandey, Shailendra K Dwivedi and T. R. Ahlawat (2021).Fig (Ficus carica L.) (Ed),Sub-Tropical Fruit Crops: Theory to Practical, Jaya Publication House, New Delhi, pp 219-235	978-93-90611-01-0
4	M. Sarkar; K. D. Desai, B. K. Patel and Himani B. Patel. 2022. "Integrated Disease and Insect Management in Elephant Foot Yam [ <i>Amorphophalluspaeoniifolius</i> (Dennst.) Nicolson]". Crop protection-driven food safety and security, International Books & Periodical Supply Service, pp: 175-179.	978-93-90425-60-0
5	Hetal Rathod, Pandey, A. K., Mittal Dudhat and Madineni Tejaswini. 2021. Seed Dormancy and Germination. Nipa GENX Electronic Resources and Solutions P. LTD., New Delhi, pp 33-42.	978-93-91383-96-1
6	Pandya, J. R., Patel, N. M., Ramya R., Chawla S. L.and Mahatma L. (2021). Important Diseases of Rose ( <i>Rosa</i> spp.) and their management. <i>In</i> Diseases of Horticultural Crops: Diagnosis and Management - Volume 3: Ornamental plants and Spice Crops, CRCPress, Abingdon, Oxon, UK. pp. 149-168.	9781003160465
7	Chawla, S. L., Roshni Agnihotri and Pawar, R. D. (2021). Turfgrass Management: Principles and Practices. In Flower Production and Gardening, NIPA, New Delhi. pp. 41-58	9789390591213
8	Chawla, S. L. Kalkame Ch. Momin, Pawar, R. D., Kiran Kumari and Sudha Patil (2021). Traditional Bulbous Plants. In Handbooks of Crop Diversity: Conservation and Use of Plant Genetic Resources, Springer.pp.4-39	-
9	Chawla S. L., Sudha Patil, Pawar R. D. and Dipal S. Bhatt (2021). Spider lily ( <i>Hymenocallis littoralis</i> Jacq. Salib). In Bulbous and Rhizomatous Plants. Scientific Publishers, Jodhpur. pp 198-207.	9789390495061
10	Chawla S. L., Pawar, R.D., SudhaPatil, and Kavita (2021). Tuberose ( <i>Polianthes tuberosa</i> L.). In Bulbous and Rhizomatous Plants. Scientific Publishers, Jodhpur. pp. 208-231.	9789390495061
11	Mahatma, L., Chawla, S. L., and Sudha Patil (2021). Important Diseases of Gladiolus ( <i>Gladiolus</i> spp.) and their management. In Diseases of Horticultural Crops: Diagnosis and Management - Volume 3: Ornamental plants and Spice Crops, CRCPress, Abingdon, Oxon, UK. pp. 117-135.	9781003160465
12	Kumar, R., Dhuna, R. S., Pal P. and Chawla, S. L. (2021). China aster. In Commercial Flowers, Vol.4. Daya Publishing House, New Delhi. pp. 320-372.	9789390435456
13	Chawla, S. L., Sudha Patil, Roshni Agnihotri and Pawar R. D. (2021).Heliconia. In Commercial Flowers, Vol. 3. Daya Publishing House, New Delhi. pp. 582-603.	9789390435371
14	Dr. Nilam V. Patel. Recent development in preparation of IMF (jam and Jelly) from fruits. NAHEP, CAAST, NAU, Navsari	
15	V. P. Prajapati, P. R. Patel, Hemant Sharma, H. V. Pandya and Snehal M. Patel (2020) Insect Pest Management in Fruit Crops. <i>Horticulture Basic Principles and Recent Approaches</i> , 213-260.	978-93-91383-96-1
16	Snehal M. Patel, H. V. Pandya, V. P. Prajapati, P. R. Patel and Hemant Sharma (2020) Insect Pest Management in Fruit Crops. <i>Horticulture Basic Principles and Recent Approaches</i> , 199-212.	978-93-91383-96-1
17	Molecular Mechanism Underlying Chickpea – <i>Fusarium oxysporum</i> f. sp.ciceri Interaction, In: Sustainable Agriculture Reviews 51, Legume Agriculture and Biotechnology Vol 2, Eds. Guleria, P., Kumar, V. and Lichtfouse, E.	978-3-030-68827-1
18	Current approaches in horticultural crops to mitigate the effect of cold stress, In: Stress Tolerance in Horticultural Crops Challenges and Mitigation	978-0-12-822849-4



	Strategies, Eds. Rai, A. C., Rai, A., Rai, K. K., Rai, V. P. and Kumar, A.	
19	Current approaches in horticultural crops to mitigate water logging stress, In: Stress Tolerance in Horticultural Crops Challenges and Mitigation Strategies, Eds. Rai, A. C., Rai, A., Rai, K. K., Rai, V. P. and Kumar, A.	978-0-12-822849-4
20	Pareek, N, Swami, P., Gupta, S(2021). Agromet advisory services to minimize weather risk in agricultural planning, Agroforestry practices and climate change Publishers, New Delhi Publication pp. 37-44.	978-81-950753-6-2
21	Patil, S. J., Kaswala, A. R. and Tandel, B. M. 2021. Phalpakoma sendriya kheti In Phalpako.Pub. DEE NAU, Navsari.	Uni. Pub. no.5: 42: 2021 .pp 46-55.
22	Kaswala, A. R. 2021. Sherdini sendriya kheti padhatti In P Sherdini adhunik kheti padhatti.Pub. MSRC, NAU, Navsari.	Uni. Pub. No.70/2020-21 .pp 49-52.

## 6.7 Popular Articles

S.N.	Popular Articles	Language
1	S. Y. Patel. 2021. <i>Jamphal Ni Kheti</i> . Published on NAU Website for farmer provide to ATIC, DDE office	Gujarati
2	Dr. S. N. Saravaiya, Dr. Himani B. Patel and Prof. G. B. Desai 2021. “ <i>Kandmul pakona raja: Suranni vaighanik kheti</i> ”. <i>Krishijivan</i> , 53 (10): 31-34	Gujarati
3	Prof. G. B. Desai, Dr. Himani B. Patel and Dr. S. N. Saravaiya 2021. “ <i>Rataluni vaighanik kheti</i> ”. <i>Krishijivan</i> , 53 (11): 5-7	Gujarati
4	Dr. Himani B. Patel, Dr. S. N. Saravaiya and Prof. G. B. Desai 2021. “ <i>Tanniani vaighanik kheti</i> ”. <i>Krishijivan</i> , 53 (11): 16-18	Gujarati
5	HetalRathod, S. N. Saravaiya and A. I. Patel. 2021. <i>Tametana paknee adarsh kheti padhdhati</i> , <i>Krushijivan</i> , 10: May-2021: 05-09.	Gujarati
6	HetalRathod, S. N. Saravaiya and A. I. Patel. 2021. <i>Ringanna paknee adarsh khetipadhdhati</i> , <i>Krushijivan</i> , 10: May-2021: 24-28.	Gujarati
7	Patel, M. A., Chawla, S. L. and Alka Singh. 2021. <i>Bharatma Phool Udhyogno Vikasane Nikasni Tako</i> . Gujarat Bagayat Vikas Parishad and Centre For Agricultural Market Intelligence, AAU, Anand. pp. 68-69.	Gujarati
8	Alka Singh. 2022. <i>Exhibition on Indoor plants at NAU, Navsari</i> . Nursery Today, December 2021. pp. 35-38	English
9	Alka Singh. 2022. <i>Kalanchoe</i> . Nursery Today, January 2022. pp. 23-28	English
10	Alka Singh. 2022. <i>Realizing the Potential of Educational Workshops in Horticulture</i> . Nursery Today, February 2022. pp. 20-26	English
11	સુશોભન માટેના ફૂલછોડમાં પાક સંરક્ષણ, પાક સંરક્ષણ, આણંદ કૃષિ યુનિવર્સિટી, ૨૦૨૧, ૨૯૦ – ૨૯૮	Gujarati
12	શાકભાજી પાકોમાં જીવાતોનું જૈવિક નિયંત્રણ, સોવેનીયર, રાજ્ય કક્ષાનો પરિસંવાદ, જીવાતો અને રોગોના જૈવિક નિયંત્રણ દ્વારા બાગાયતી અને ખાદ્ય પાકોની ગુણવત્તા અને સલામતીની જાળવણી, ડિસેમ્બર ૩૦, ૨૦૨૧, ૧૨૧ – ૧૨૫	Gujarati
13	જૈવિક નિયંત્રણમાં વપરાતી વનસ્પતિજન્ય દવાઓ, સોવેનીયર, રાજ્ય કક્ષાનો પરિસંવાદ, જીવાતો અને રોગોના જૈવિક નિયંત્રણ દ્વારા બાગાયતી અને ખાદ્ય પાકોની ગુણવત્તા અને સલામતીની જાળવણી, ડિસેમ્બર ૩૦, ૨૦૨૧, ૧૩૩ – ૧૩૫	Gujarati
14	Gupta, S.(2021)Role of Agrometeorological services in climate smart agriculture Reader shelf magazine	English
15	P. P. Bhalerao (2021). <i>Naliyarini Vaignyanik Kheti. Falpako</i> published by Anand Agricultural University, Anand (Gujarat), pp. 192-202.	Gujarati
16	P. P. Bhalerao (2021). <i>Khedutoni Aavak Bamni Karva Mate Naliyarima Aapnao Bahustariy Paak Padhati. Falpako</i> published by Anand Agricultural University, Anand (Gujarat), pp. 203-206.	Gujarati
17	Ram Mayur L, Keyur Rathod, Krishna Gorfad, B. S. Desai and V. M. Prajapati. <i>Swasthya ne Labhkarak Evi Mithas Aapti Ausdhaya VanaspatiL Stevia (Mitha Pan)</i> . January 2022, Krishi Jagran. ISSN 2455-1082.	Gujarati
18	Ram Mayur L, Keyur Rathod, B. S. Desai, S. K. Jha and V. M. Prajapati. <i>Kheduto ne Vadhara ni Avak Aapti Vanaspati: Paneer Phool</i> . January 2022, Krishi Jagran. ISSN 2455-1082.	Gujarati
19	Bose Govind, V. M. Prajapati, M. B. Tandel and B. S. Desai. <i>Kudrati Rresh Aaptu Vruskh: Ceiba pentandra</i> . (Kapok, Safed Shimdo). February 2022. Krishi Jagran.	Gujarati

ISSN 2455-1082.

- 20 Keyur R. Rathod, Ram Mayur L, Dhaval Prajapati, Rakeshkumar Jaliya, S. K. Jha Gujarati and B. S. Desai. *Adivasio ne Ajivika puru padtu mahatavpurn vruksh: Kadayo*. January 2022. Krishi Jagran. ISSN 2455-1082.

## 6.8 Technical Bulletins

S.N.	Technical Bulletin	Language
1	Published one Technical leaflet on Agricultural Techniques of Tropical Tuber Crops by CTCRI in June, 2021.	Gujarati

## 6.9 Research Abstracts

S.N.	Abstract
1	Presented a poster paper on 'A Nutrient Rich Biofortified Greater Yam Variety: Gujarat Greater Yam-1' in 'Virtual national seminar advances in sustainable management of natural resources for food and nutritional security' during August 26-27, 2021 at NAU, Navsari.
2	Hetal R. Rathod, A. I. Patel, K.N. Chaudhari and S. N. Saravaiya. 2021. An Anthocyanin rich brinjal variety GNRB-1" In: Virtual National seminar on "Advances In Sustainable Management of Natural Resources For Food And Nutritional Security", February 27-29, 2020.
3	P. P. Bhalerao; H. P. Maheswarappa and S. Sumitha (2021). Impact of integrated nutrient management in coconut based cropping systems under South Gujarat condition. Abstract present in "National Seminar on Horticulture for Next Generation in Eastern India" Organized by Bihar Agricultural University, Sabour, Bhagalpur (Bihar) held on 05-06 August, 2021.
4	Payal C. Patel, Krishna P. Gorfad, Bimal S. Desai and V. M. Prajapati. (2022). Ethnobotanical Survey In Hanumatmal And Pangarbari Ranges Of Dharampur Forests. In: International Conference on Biodiversity: Exploration and Conservation for Sustainable Development. January 2022. Organized by Dept. of Botany, Pandit Deendayal Mahavidyalaya- Behali, Assam.
5	Payal C. Patel, Krishna P. Gorfad, Bimal S. Desai, V. M. Prajapati and A. A. Mehta (2021). Conservation and Utilization of NTFP's in Hanumatmal and Pangarbari Forest Ranges of South Gujarat. In: National Conference on Value Addition and Marketing of NTFP's. Organized by Tropical Forest Research Institute (TFRI), Jabalpur. December 2021.

## 6.10 Pamphlets-Leaflets-Folders

S. N.	Details	Pamphlets -Leaflets-Folders	Publication No.
1	Dr. Nilam V. Patel, Dr. Dev Raj and Dr. J. M. Mayani	Folder (Gujarati) : પૃષ્ઠાની મૂલ્યવર્ધિત બનાવટો	04/2021-22
2	Dr. J. M. Mayani, Dr. Dev Raj and Dr. Nilam V. Patel	Folder (Gujarati) : કેળાની મૂલ્યવર્ધિત ખાદ્ય પેદાશો	05/2021-22
3	Dr. Nilam V. Patel, Dr. Dev Raj and Dr. J. M. Mayani	Folder (Gujarati) : મસાલા પાકોમાં મૂલ્યવર્ધન	06/2021-22
4	Bijal P. Solanki, Dr. Palak A. Kachhadiya, Archana V. Mahida, Dr. J. M. Mayani, Dr. Dev Raj and Dr. T. R. Ahlawat	Folder (Gujarati) : કેરીની મૂલ્યવર્ધિત બનાવટો	15/2021-22
5	Dr. Palak A. Kachhadiya, Bijal P. Solanki, Dr. J. M. Mayani, Dr. Vrutti K. Patel, Dr. Dev Raj and Dr. T. R. Ahlawat	Folder (Gujarati) : કમલમ ડ્રેગનફ્રુટ (નીઉપયોગીતા અને તેનું મુલ્યવર્ધન	16/2021-22
6	Dr. Palak A. Kachhadiya, Bijal P. Solanki, Dr. Abhijit D. Chaudhari, Dr. J. M. Mayani, Dr. Dev Raj and Dr. T. R. Ahlawat	Folder (Gujarati) : જમફળની ઉપયોગીતા અને તેનું મુલ્યવર્ધન	17/2021-22
7	Dr. J. M. Mayani, Dr. Dev Raj, Dr. T. R. Ahlawat, Dr. Chirag Desai, Bijal P. Solanki and Dr. Pares B. Zinzala	Folder (Gujarati) : ચીકુનું મૂલ્યવર્ધન કરવાની ઘરેલુ તકનીકો	18/2021-22
8	Bijal P. Solanki, Dr. Palak A. Kachhadiya, Riddhi P. Desai, Dr. J. M. Mayani, Dr. Dev Raj and Dr. T. R. Ahlawat	Folder (Gujarati) : કેરી અને ચિકુ ઉતાર્યા પછીની માવજત	19/2021-22

## 6.11 TV /RadioTalks

S.N.	Name of faculty	Topic/Title	Date	Radio/ TV talk
1	Dr. Himani B. Patel	Phone in Live Programme from Krishidarshan-Doordarshan-DD Girnar channel on the topic of "અગત્યના કંદમૂળપાકોની વૈજ્ઞાનિક ખેતી પદ્ધતિ"	08/10/2021	Phone in Live Programme
2	Prof. Hetal R. Rathod	Krishi Darshan Phone in Live Programme "Kandmul paakoni vaignanik kheti padhdhati"	08/10/2021	TV Telecast (Live)
3	Dr. N. K. Patel	Velavala Shakhbaji ma Pako ma Avrodhak Paribalnar: madaful no unchogunotar (વેલાવાળા શાકભાજીમાં અવરોધક પરિબલો નર માદા કુલને ઉચોગુણોતર)	02/10/2021	TV Telecast (online)
4	Dr. A. I. Patel	Phone in Live Programme from Krishidarshan-Doordarshan-DD Girnar channel on the topic of "શાકભાજી પાકોમાં બીજ ઉત્પાદન"	07/01/2022	Phone in Live Programme
5	Dr. J. M. Vashi	Phone in Live Programme from Krishidarshan-Doordarshan-DD Girnar channel on the topic of "શાકભાજી પાકોમાં બીજ ઉત્પાદન"	07/01/2022	Phone in Live Programme



Phone in Live Programme

## 6.12 Lectures by faculty as Resource Person or/ acted as an Interviewer/Expert/Judge

S.N.	Faculty	Activity details	Date/ Period	Place/ Institute
<b>Activity as Resource Person</b>				
1	Dr. B. M. Tandel	Mango webinar	24/06/2021	Webinar organized by KVK, Surat
2	Dr. P. D. Solanki	Canopy Management in mango	05-09/07/2021	DEE, NAU, Navsari
3	Dr. B. M. Tandel	Dragon fruit	29/07/2021	Webinar organized Pune
4	Dr. B. M. Tandel	High Density Planting	31/08/2021	Webinar organized by ACHF, NAU
5	Dr. P. D. Solanki	Production technology of mango their problems and solutions	02/09/2021	SSK, NAU, Navsari
6	Dr. V. K. Parmar	NAU experts/Scientist for Escalation of fruit crops	23/11/2021	Kishan Call Centre
7	Dr. P. D. Solanki	Nursery management in Horticultural crops	16/02/2022	Department of Horticulture, Govt. of Gujarat at Lachhakadi
8	Dr. D. R. Bhandari	Effect of NEP on Youth Empowerment & Sports Development	04/08/2021	Webinar / Ministry of Sports, GoI.
9	Dr. Himani B.	Guest lecture given to the farmers	29/01/2022	At Farmers Training



	Patel	of south Gujarat on Tuber Crops		Centre, Navsari
10	Dr. N. K. Patel	<i>Shakbhajinivagaanikkheti</i>	21-22/10/2021	SSK, NAU, Navsari
11	Dr. N. K. Patel	<i>Shakbhajinivagaanikkheti</i>	23/11/2021	SSK, NAU, Navsari
12	Dr. Alka Singh	Invited talk in One day webinar on "Landscape Gardening: An Art(Out-door gardening)"	15/05/2021	Indian Nurserymen Association, New Delhi
13		Invited talk in One day webinar on "Green Environmental Goals through Home Gardening"	05/06/2021	Federation of Gujarat Industries (FGI), Vadodara Gujarat
14		Invited talk in One day webinar on "Organic home Gardening-Step by Step"	12/06/2021	Bizomia and INA, New Delhi
15		Invited talk in webinar on "The art and technique of arranging flower design"	12/08/2021	Indian Nurserymen Association, New Delhi
16		Webinar "Discussion on Dry Flowers"	23/08/2021	Flower Trade Centre, New Delhi
17		Invited Keynote Lecture on "Flowers for Human health" Goodness of Roses: Healthy flavanoids"	05/09/2021	Indian Women Scientists association and VigyanPrasar, Mumbai
18		Invited talk in webinar on "Nurturing Nature-Indoors and Outdoors"	15/09/2021	Gujarat University Botanicals Society, Gujarat University, Ahmedabad
19		Invited guest lecture on "Urban Landscaping-Outdoors "	13/01/2022	Indian Nurserymen Association for nurserymen and garden lovers
20		Invited guest lecture and interactive talk on "Fresh and Dry Flower Arrangements"	12/01/2022	Sri University, Cuttack, Odisha
21		Lecture cum practical "Value addition in flower crops" during one day training programme on Phoolpakoni Vegnyanik Kheti (Scientific cultivation of flower crops) organized under AICRP on Floriculture (TSP) in collaboration with KVK, Navsari	23/03/2022	Floriculture Research Farm, ACHF
22		Lecture and practical on "Western style: Making of standard patterns-triangular-symmetrical and asymmetrical during two days Skill development training programme under Student READY program	11-12/03/2022	ACHF, NAU, Navsari
23	Dr. S. L. Chawla	Propagation techniques in ornamental plants	28/10/2021	Indian nurserymen association
24		Basic Concepts of Floriculture for Competitive Examination	24/12/2021	Junagadh Agricultural University, Junagadh
25		Turf Management	11/02/2022	Punjab Agricultural University, Ludhiana
26		Introduction to Turfgrasses	12/02/2022	Coromandel International Limited, Hyderabad



27	Dr. M. A. Patel	Webinar “Landscape gardening: An art home Gardening”	08/05/2021	Indian Nurserymen Association for nurserymen and garden lovers
28		Webinar “Landscape gardening: An art Outdoor Gardening”	15/05/2021	Indian Nurserymen Association for nurserymen and garden lovers
29		Invited talk on the topic of “Rooftop Gardening” in webinar on “Nurturing Nature-Indoors and Outdoors”	15/09/2021	Gujarat University Botanicals Society Gujarat University, Ahmedabad
30	Dr. G. D. Patel	Lecture on “Material for floral design, tools, containers & accessories” during two days Skill development training programme under Student READY program	10/03/2022	ACHF, NAU, Navsari
31	Dr. Dipal S. Bhatt	Lecture on “ <i>Phoolpako (Spider lily) niVegyanikKhetiPadhdhati</i> ” during MahilaKhedutTalimKaryakram	05-06/07/2021	SardarSmriti Kendra, NAU, Navsari in collaboration with Nava TalavMahilaMandal
32		Lecture on “ <i>Phoolpako (Spider lily) niVegyanikKhetiPadhdhati</i> ” during MahilaKhedutTalimKaryakram organized by held from	12-13/07/2021	SardarSmriti Kendra, NAU, Navsari in collaboration with Unn-MunsadMahilaMandal
33		Lecture on “Principles of Flower Design” during two days Skill development training programme under Student READY program	10/03/2022	ACHF, NAU, Navsari
34		Lecture (Live lecture on field) on “ <i>Gaillardia niVegyanikKheti</i> ” during one day training programme on <i>PhoolpakoniVegnyanikKheti</i> (Scientific cultivation of flower crops) organized under AICRP on Floriculture (TSP) in collaboration with KVK, NAU, Navsari	23/03/2022	Floriculture Research Farm, ACHF, NAU, Navsari
35	Dr. Sudha Patil	Invited lecture on “Production of annuals”	25/11/2021	Indian Nurserymen Association, New Delhi
36		Invited lecture on “Soilless Flower Production”	09/03/2022	IDP-NAHEP training programme on Recent trends in pot culture in Horticulture, OUAT, Odisha during 3-9, March, 2022
37		Lecture cum practical “Production technology of China aster” during one day training programme on <i>PhoolpakoniVegnyanikKheti</i> (Scientific cultivation of flower	23/03/2022	Floriculture Research Farm, ACHF



		crops) organized under AICRP on Floriculture (TSP) in collaboration with KVK, NAU, Navsari		
38		Lecture cum practical "Production technology of Jasmine" during one day training programme on <i>Phoolpakoni Vegnyanik Kheti</i> (Scientific cultivation of flower crops) organized under AICRP on Floriculture (TSP) in collaboration with KVK, NAU, Navsari at Floriculture Research Farm, ACHF on March 23, 2022.	23/03/2022	Floriculture Research Farm, ACHF
39		Lecture and practical on "Harvest indices, harvesting methods and quality parameters" during two days Skill development training programme under Student READY program for at ACHF on March 11-12, 2022.	11-12/03/2022	ACHF, NAU, Navsari
40	Ms. Parmeshvari Chaudhari	Invited lecture on "Urban Landscaping-Indoors"	13/01/2022	Indian Nurserymen Association, New Delhi
41		Lecture on "Western style: standard patterns (S curve and Crescent)" during Skill Development Training	11-12/03/2022	ACHF, NAU, Navsari
42		Lecture on "Ikebana types, styles & Principles" during Skill Development Training	11-12/03/2022	ACHF, NAU, Navsari
43	Dr. N. V. Patel	Lecture delivered on Recent development in preparation of IMF (jams and jelly) from fruits	03/07/2021	Virtual training at PHTC, ACHF, NAU
44	Dr. Snehal Patel	Lecture in "Certificate course on insecticides management for insecticides dealers/distributors" on 'Insecticidal dose, time and required number of spray' at KVK	22/10/2021	Certificate course at ATIC
45		Lecture in "Certificate course on insecticides management for insecticides dealers/distributors" on 'Effect of insecticides on non target pests' at KVK	12/11/2021	Certificate course at ATIC
46		Lecture in "Certificate course on insecticides management for insecticides dealers/distributors" on 'Insecticidal dose, time and required number of spray' at KVK	25/02/2022	Certificate course at ATIC
47		Lecture in "Certificate course on insecticides management for insecticides dealers/distributors" on 'Effect of insecticides on non target pests' at KVK	25/03/2022	Certificate course at ATIC

48	Dr. A. R. Kaswala	Krishi Mela	09/03/2021	Krushi Vigyan Kendra (Narmada) Navsari Agricultural University. AT Post 393040, Dediapada
49		Five days online vocational training on "Soil Testing as a business opportunity" under NAHEP-IDP.	04-08/01/2021	Junagadh Agricultural University, Junagadh
50		Under NSS activity by Veer Narmad South Gujarat University, Surat	02/06/2021	Online Mode
51		State Level Online Training Programme Series on "Organic Farming" was organized by Organic Farming Research and Training Centre, Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani during February 15 to March 31, 2022.	21/02/2022	Online Mode
52	Dr. P. P. Bhalerao	Online lecture delivered on "Production Technology of coconut"	24/08/2021	Gardens Club, Kolhapur (MH)
53		Online lecture delivered on "production Technology of Turmeric"	02/12/2021	Indian Nurseryman Association, New Delhi
54	Dr. B. S. Desai	Importance of Medicinal Plants in Agriculture.	29/11/2021	Lecture at KVK, Navsari
<b>Activity as Interviewer</b>				
55	Dr. V. K. Parmar	Senior Research Fellow at Fruit Research station, NAU, Gandevi	03/12/2021	Office of the Director of Research, NAU, Navsari
56	Dr. Alka Singh	Assistant Director of Horticulture (ADH)	24/12/2021	Gujarat Public Service commission, Gandhinagar
<b>Activity as Judge/Expert</b>				
57	Dr. P. D. Solanki	Deputed for the Team of Accreditation and Rating of horticulture Nurseries under NHB scheme	04-05/03/2022	Office of the Director of Research, NAU, Navsari
58	Dr. N.V. Patel	Evaluation of 'કેરોળ વાનગી સપ્તર્ષી' organised by KVK, Navsari as a part of World Pulses Day celebration	10/02/2022	Examination hall, NAU
59		Evaluation of 'પોષણ સંગ્રહણ સપ્તર્ષી' organised by KVK, Navsari as a part of International Women's Day celebration	10/03/2022	Examination hall, NAU
60	Dr. P. K. Dubey	Organic farming Vs Natural farming debate organized by KVK, Navsari	08/03/2021	KVK, Navsari

## 6.13 Awards/Fellowships/Recognitions

### 1) Oral Presentation Award

a) Musmade, N. A., Suthar, K. P., Pawar, R. D. and Mahatma L. were adjudged as Third best oral presenter for the presentation "Synthesis of chitosan mediated silver nanoparticles ( $\text{AgNO}_3$ ) for potential antifungal application" in National symposium on plant Health management organized by the Department of Biotechnology & Crop Improvement, College of Horticulture, GKVK post, Bengaluru, during November 02-04, 2020.

### 2) Young Scientist Award

a) Dr. Pankaj P Bhalariao received the **Outstanding Researcher Award** in the 6<sup>th</sup> Aufau International Awards Ceremony 2021, held virtually on 15.06.2021, by Aufau Science Forum, Salem, India.

b) Dr. Pankaj P Bhalariao received the **Rashtriya Gaurav Top 30 Icon Award for Outstanding excellence in horticulture teaching and research-2021**. Presented by Golden Era Events and Co-presented by Nation's Pride Book of Records, New Delhi, India.

### 3) Any Other Award



Received an Appreciation Certificate & ranked 2<sup>nd</sup> for the outstanding performance for revenue generation (Rs. 91,250) during 2020-21 in 21<sup>st</sup> Annual Group Meeting of ICAR-AICRP on Tuber Crops (Through Online mode) during 27 to 28 May, 2021.

### 4) Positions in Scientific Societies

S.N.	Faculty	Position	Name of Society
1	Dr. Himani B. Patel	Life Member	The Gujarat Association for Agricultural Sciences, Ahmedabad
2	Dr. Himani B. Patel	Life Member	Society for Horticultural Research and Development, Ghaziabad, UP
3	Dr. Himani B. Patel	Life Member	Society of Extension Education Gujarat (SEEG)
4	Dr. J. M. Vashi	Life Membership	Society of Extension Education
5	Dr. J. M. Vashi	Patron Membership	Horticultural Society of Gujarat
6	Dr. J. M. Vashi	Life Membership	Society For Advancement of Human and Nature
7	Dr. J. M. Vashi	Life Membership	The Gujarat Association for Agricultural Sciences
8	Dr. Alka Singh	Member of Editorial Board	ISOH, New Delhi
		Member of Editorial Board	Horticulture Society of Gujarat
		Member of Editorial Board	International Journal of Agriculture, Environment and Biotechnology
		Co-ordinating Editor	Journal of Greens and Gardens
		Reviewer	Scientia Horticulture





9	Dr. S. L. Chawla	Joint Secretary	Indian Society of Ornamental Horticulture, IARI, New Delhi
		Patron	The Horticultural Society of Gujarat, Navsari
		Executive Councilor	The Horticultural Society of Gujarat, Navsari
		Editor	Indian Society of Horticultural Research and Development
10	Dr. Dipal S. Bhatt	Patron	The Horticultural Society of Gujarat, Navsari
		Reviewer	Current Agriculture Research Journal
		Life Member	1. Society for Horticultural Research and Development, Ghaziabad (UP)
			2. Indian Society of Ornamental Horticulture, ICAR-IARI, New Delhi
11	Dr. Sudha Patil	Patron	3. Society for Promotion of Horticulture, ICAR-IIHR, Bengaluru
			4. The Horticultural Society of Gujarat, Navsari
		Editor	The Horticultural Society of Gujarat, Navsari
		Associate-Editor	Current Horticulture
		Reviewer	Bioinfo Publications Journals
12	Dr. H. P. Shah	Life Member	Journal of Advances in Biotechnology
			1) Indian Academy of Horticultural Sciences, New Delhi (Formerly HSI)
			2) Society for Horticultural Research and Development, Modinagar, Gaziabad (UP)
			3) Indian Society of Ornamental Horticulture, ICAR-IARI, New Delhi
13	Dr. M. A. Patel	Life Member	4) The Indian Science Congress Association, Chennai
			5) The Horticultural Society of Gujarat, Navsari
			6) Indian Society for Arid Horticulture, ICAR-CIAH, Bikaner (Raj.)
			7) Society for Advancement of Human and Nature, DRYSPUH, Solan (HP)
14	Dr. G. D. Patel	Life Member	8) Garden Glory- Human Empowerment Cooperative Ltd., Jammu
			9) Indian Society for Horticultural Research and Development, Uttarakhand
			10) The Gujarat Association for Agricultural Sciences, Navsari
			1. Indian Society of Ornamental Horticulture, ICAR-IARI, New Delhi
15	Dr. M. A. Patel	Life Member	2. The Horticultural Society of Gujarat, Navsari
			3. The Gujarat Association for Agricultural Sciences, Navsari
			1. Society for Horticultural Research and Development, Modinagar, Gaziabad (UP)
			2. Indian Society of Ornamental Horticulture, ICAR-IARI, New Delhi
16	Dr. M. A. Patel	Life Member	3. The Horticultural Society of Gujarat, Navsari
			4. Indian Society for Horticultural Research and Development, Uttarakhand
			5. The Gujarat Association for Agricultural Sciences, Navsari
			1. Indian Society of Ornamental Horticulture, ICAR-IARI, New Delhi
17	Dr. M. A. Patel	Life Member	2. Indian Society of Horticultural Research and Development



15	Mrs. Parmeshwari Chaudhari	Life Member	Indian Society of Ornamental Horticulture
16	Dr. H. V. Pandya	Life Member	PPAG-Plant Protection Association of Gujarat
17	Dr. H. V. Pandya	Life Member	GAAS-The Gujarat Association for Agricultural Sciences
18	Dr. H. V. Pandya	Life Member	Member of Board of Studies(PPSC)
19	Dr. H. V. Pandya	Life Member	Member of Board of Studies(Horticulture)
20	Dr. H. V. Pandya	Life Member	Member of Agricultural Research Council (AGRESCO)Plant Protection
21	Dr. H. V. Pandya	Life Member	Member of Agricultural Research Council (AGRESCO)Horticulture
22	Dr. H. V. Pandya	Life Member	ACHF ALUMNI Association
23	Dr. H. V. Pandya	Life Member	Entomological Research Association
24	Dr. H. V. Pandya	Life Member	Society of Extension Education
25	Dr. H. V. Pandya	Life Member	Horticultural Society of Gujarat
26	Dr. H. V. Pandya	Life Member	Indian society for Horticultural research and development (ISHRD)
27	Dr. P. R. Patel	Life Member	Indian society for Horticultural research and development (ISHRD)
28	Dr. P. R. Patel	Life Member	PPAG-Plant Protection Association of Gujarat
29	Dr. P. R. Patel	Life Member	GAAS-The Gujarat Association for Agricultural Sciences
30	Dr. P. R. Patel	Life Member	Member of Board of Studies(PPSC)
31	Dr. P. R. Patel	Life Member	Member of Board of Studies(Horticulture)
32	Dr. P. R. Patel	Life Member	Member of Agricultural Research Council (AGRESCO)Plant Protection
33	Dr. P. R. Patel	Life Member	Member of Agricultural Research Council (AGRESCO)Horticulture
34	Dr. P. R. Patel	Life Member	Member of Agricultural Research Council (AGRESCO)Forestry
35	Dr. P. R. Patel	Life Member	Trends in Bio Science
36	Dr. V. P. Prajapati	Life Member	Indian Society of Mycology and Plant Pathology, MPAUT, Udaipur
37	Dr. V. P. Prajapati	Life Member	Indian Phytopathological Society, New Delhi
38	Dr. V. P. Prajapati	Life Member	Indian society of plant pathologist.PAU, Ludhiana
39	Dr. V. P. Prajapati	Life Member	Indian society for horticultural research and development (ISHRD)
40	Dr. V. P. Prajapati	Life Member	PPAG-Plant Protection Association of Gujarat
41	Dr. V. P. Prajapati	Life Member	GAAS-The Gujarat Association for Agricultural Sciences
42	Dr. V. P. Prajapati	Life Member	Member of Board of Studies
43	Dr. V. P. Prajapati	Life Member	Member of Agricultural Research Council (AGRESCO)
44	Dr. Hemant Sharma	Life Member	Indian Society of Mycology and Plant Pathology, MPAUT, Udaipur
45	Dr. Hemant Sharma	Life Member	PPAG-Plant Protection Association of Gujarat
46	Dr. Hemant Sharma	Life Member	GAAS-The Gujarat Association for Agricultural Sciences
47	Dr. Hemant Sharma	Life Member	Member of Board of Studies
48	Dr. Hemant Sharma	Life Member	Member of Agricultural Research Council (AGRESCO)
49	Dr. Hemant Sharma	Annual Member	International Journal of Chemical Studies
50	Dr. Snehal Patel	Life Member	ACHF ALUMNI Association
51	Dr. Snehal Patel	Life Member	Entomological Research Association
52	Dr. Snehal Patel	Life Member	Society of Extension Education
53	Dr. Snehal Patel	Life Member	The Gujarat Association for Agricultural Sciences
54	Dr. Snehal Patel	Life Member	Trends in Biotechnology and biological sciences

55	Dr. Snehal Patel	Life Member	Trends in Biosciences
56	Dr. Snehal Patel	Life Member	Advances in Life Sciences
57	Dr. Snehal Patel	Life Member	Plant Protection Association of Gujarat
58	Dr. Snehal Patel	Life Member	Member of Agricultural Research Council (AGRESCO)
59	Dr. Rehana Niyaria	Life Member	Indian Society of Plant breeding & genetics
60	Dr. Diwakar Singh	Fellow & Life Member	Society for Applied Biotechnology
61	Dr. Diwakar Singh	Life Member & Executive committee Member	Indian Society for Agricultural Biochemistry
62	Dr. Diwakar Singh	Life Member	Society for Plant Biochemistry and Biotechnology

### 5) Patent Filled

- Indian Patent Application No: **IN 202121008552** dated **01-03-2021**.  
Title: green process of synthesizing zinc oxide nanoparticles with seedling extract and zinc salt  
Applicant: Navsari Agricultural University; Ref No: PTIN/0021611

### 6.14 RG Score and h index

Faculty	Designation & Department	RG Score	h Index
Dr. V. K. Parmar	Prof. and Head, Dept. of Fruit Science	1.70	4.00
Dr. R. V. Tank	Asso. Prof., Dept. of Fruit Science	1.78	7.00
Dr. Y. N. Tandel	Asso. Prof., Dept. of Fruit Science	3.28	5.00
Dr. B.M. Tandel	Asso. Prof., Dept. of Fruit Science	0.01	5.00
Dr. S. Y. Patel	Asso. Prof., Dept. of Fruit Science	0.01	2.00
Dr A. K. Pandey	Asst. Prof., Dept. of Fruit Science	15.83	3.00
Prof. Dixita Prajapati	Asst. Prof., Dept. of Fruit Science	0.60	2.00
Dr. Tulsi D. Gurjar	Asst. Prof., Dept. of Fruit Science	0.01	3.00
Dr. P. D. Solanki	Asst. Prof., Dept. of Fruit Science	1.20	3.00
Dr. S. N. Saravaiya	Prof. & Head, Dept. of Vegetable Science	5.17	9.00
Dr. C. G. Intwala	Professor (Breeding), Dept. of Vegetable Science	4.00	4.00
Dr. D. R. Bhandari	Professor, Dept. of Vegetable Science	2.85	5.00
Dr. N. K. Patel	Asst. Prof., Dept. of Vegetable Science	2.85	2.00
Dr. J. M. Vashi	Asst. Prof., Dept. of Vegetable Science	4.19	2.00
Dr. A. I. Patel	Asst. Prof., Dept. of Vegetable Science	9.52	10.00
Prof. Hetal R. Rathod	Asst. Prof., Dept. of Vegetable Science	0.01	1.00
Dr. Himani B. Patel	Asst. Prof., Dept. of Vegetable Science	2.76	2.00
Dr. Alka Singh	Prof. & Head, Dept. of Flori & Landscape Architecture	19.00	10.00
Dr. S. L. Chawla	Asso. Prof., Dept. of Flori & Landscape Architecture	15.06	6.00
Dr. H. P. Shah	Asst. Prof., Dept. of Flori & Landscape Architecture	2.83	1.00
Dr. M. A. Patel	Asst. Prof., Dept. of Flori & Landscape Architecture	4.67	4.00
Dr. G. D. Patel	Asst. Research Scientist, Dept. of Flori & Landscape Architecture	2.24	2.00
Dr. Dipal S. Bhatt	Asst. Prof., Dept. of Flori & Landscape Architecture	6.32	3.00
Dr. Sudha Patil	Asst. Prof., Dept. of Flori & Landscape Architecture	9.26	5.00
Mrs. Parmeshwari Chaudhari	Asst. Prof., Dept. of Flori & Landscape Architecture	--	--
Dr. Dev Raj	Prof. and Head, PHT	17.27	8.00
Dr. Parag S. Pandit	Asst. Prof., PHT	3.31	2.00
Dr. Ashok Kumar Senapati	Asst. Prof., PHT	3.89	6.00
Dr. Jilen M. Mayani	Asst. Prof., PHT	2.43	2.00
Er. Fakir Mohan Sahu	Asst. Prof., PHT	5.60	1.00
Dr. Harish G. Suthar	Asst. Prof., PHT	3.78	2.00
Dr. Nilam V. Patel	Asst. Prof., PHT	0.59	1.00



Dr. H.V. Pandya	Registrar and Professor , Plant Protection	12.00	10.00
Dr. P. R. Patel	Asso. Prof. and Head, Plant Protection	0.01	2.00
Dr. Hemant Sharma	Asso. Prof., Plant Protection	2.00	4.00
Dr. Snehal M. Patel	Asst. Prof., Plant Protection	5.34	4.00
Dr. V. P. Prajapati	Asst. Prof., Plant Protection	2.06	3.00
Dr. Rehana Niyaria	Asst. Prof., Basic Science Department	-	-
Dr. Diwakar Singh	Asst. Prof., Basic Science Department	12.47	7.00
Dr. K. P. Suthar	Asst. Prof., Basic Science Department	9.57	5.00
Dr. Chintan Kapadia	Asst. Prof., Basic Science Department	15.75	5.00
Dr. V. K. Parmar	Prof. and Head, Dept. of PSMA	1.70	4.00
Dr. M. M. Patel	Asso. Prof., Dept. of PSMA	--	--
Dr. B. S. Desai	Asst. Prof., CoF, ACHF, NAU, Navsari	8.00	5.00
Dr. P. P. Bhalerao	Asst. Prof., Dept. of PSMA	2.74	8.00

## 7. STUDENTS WELFARE ACTIVITIES

### 7.1 Students' Representative Council

S.N.	Name	Designation	Position
<b>STAFF ADVISORS</b>			
1	Dr. P. K. Shrivastava	Principal and Dean	President
2	Dr. N. B. Patel	Assoc. Professor (Vegetable Science)	Chairman
3	Dr. M. K. Desai	Asst. Professor (Agroforestry)	Co- Chairman
4	Dr. Jayesh Pathak	Asst. Professor (Agroforestry)	Cultural Advisor
5	Dr. H. V. Pandya	Assoc. Professor (Entomology)	Chairman- Placement Cell & College Magazine
6	Lt. G. V. Savani	Asst. Professor (English)	Editor-College Magazine & NCC Officer
7	Dr. M. B. Tandel	Asst. Professor (Forestry)	Sports Advisor
8	Dr. N. K. Patel	Asst. Professor (Vegetable Science)	Advisor- Indoor Games
9	Dr. Y. N. Tandel	Asst. Professor (Fruit Science)	Advisor- Outdoor Games
10	Dr. S. M. Patel	Asst. Professor (Agroforestry)	Advisor- Outdoor Games
11	Mr. M. R. Parmar	Asst. Professor (Agroforestry)	Advisor- Outdoor Games
12	Mr. Kirti Bardhan	Asst. Professor (Plant Physiology)	Advisor- Literary Events
13	Lt. (Dr.) Aadil Kazi	Asst. Professor (Ecotourism & Wildlife)	Chairman- Nature Club, NCC
14	Dr. V. B. Parekh	Asst. Professor (Biotechnology)	Advisor, Alumni Events
15	Dr. J. M. Vashi	Asst. Professor (Vegetable Science)	Programme Officer- NSS
16	Dr. Sudha Patil	Asst. Professor (Floriculture)	Advisor- Girls Activities
17	Dr. Nilam Patel	Asst. Professor (PHT)	Advisor- Girls Activities
18	Dr. Tulsi Gurjar	Asst. Professor (Fruit Science)	Advisor- Girls Activities
<b>STUDENT REPRESENTATIVES</b>			
1	Ananya Prasad	VII Sem B. Sc. (Hons.) Horticulture	General Secretary
2	Sujith P. P.	VII Sem B. Sc. (Hons.) Forestry	Cultural Secretary
3	Viral Bhusara	VII Sem B. Sc. (Hons.) Forestry	Sports Secretary & CR
4	Stuti Shukla	VII Sem B. Sc. (Hons.) Horticulture	Ladies Representative (LR)
5	Vicky Gurjar	V Sem B. Sc. (Hons.) Horticulture	CR Horticulture
6	Saqlain Sayeed	V Sem B. Sc. (Hons.) Forestry	Secretary- CR Outdoor Games & CR
7	Darshan Vaddoriya	III Sem B. Sc. (Hons.) Horticulture	Secretary- Indoor Games & CR
8	Vivek Chovatiya	III Sem B. Sc. (Hons.) Forestry	Secretary- College Magazine & CR
9	Yukta singh	I Sem B. Sc. (Hons.) Horticulture	Secretary- Literary Events & CR
10	Sojitra Gopi A.	PG Horticulture	Secretary- Alumni Events
11	Jaliya Rakesh	PG Forestry	Secretary- Placement Cell

## 7.2 Institutional Anti-Ragging Committee

S.N.	Name and Designation	Position	Mobile No.
1	Dr. P. K. Shrivastava, I/C Principal & Dean	Chairman	9879575264
2	Dr. A. P. Italiya, U.G. Co-ordinator (Horticulture) and Asstt. Professor	Member Secretary	7600059219
3	Dr. B. S. Desai U.G (Forestry) and Asstt. Professor	Member	9374065646
4	Dr. R. V. Tank, P.G (Horticulture) and Asso. Professor	Member	9426837531
5	Dr. R. P. Gunaga, P.G (Forestry) and Asso. Professor	Member	9408851342
6	Mamlatdar Jalalpore	Member	02637-246945
7	Police Inspector, Police Station Jalalpore	Member	02637-287333
8	Mayank Desai, Eru, Navsari, Divya Bhaskar, Media Representative	Member	9712923580
9	Mrs. Sunitaben Dahyalal Savaliya, (Parent representative)	Member	9898621627
10	Dr. Dev Raj, Rector & Professor	Member	9913753252
11	Dr. Prajapati Dixita D. Asst. Rector & Asst. Professor	Member	9724253897
12	Ms. Chaudhary Parmeshwari, Asst. Rector & Asst. Professor	Member	9099665904
13	Dr. Avnish Pandey, Asst. Rector & Asst. Professor	Member	9913028496
14	Dr. J. M. Mayani, Asst. Rector & Asst. Professor	Member	9898110173
15	Dr. D. P. Patel, Asst. Rector & Asst. Professor	Member	9429259249
16	Dr. N. S. Thakur, Asst. Rector & Asst. Professor	Member	9664579062
17	Mangroliya Ronak Mukeshbhai, P.G. Student (Horti.)	Student Member (P.G)	9825588403
18	Jaliya Rakeshkumar Manubhai, P.G. Student (Fort.)	Student Member (P.G)	7874758386
19	Delvadiya Avadh Kamlesh, U.G. Student (Horti.)	Student Member (U.G)	7874652874
20	Ananya Birendra Prasad, U.G. Student (Fort.)	Student Member (U.G)	7567427300

## 7.3 Anti-Ragging Squad

S.N.	Name and Designation	Position	Mobile No.
1	Dr. P. K. Shrivastava, I/C Principal & Dean	Chairman	9879575264
2	Dr. Dev Raj, Professor & Head	Member Secretary	9913753252
3	Dr. N. S. Thakur, Asst. Professor	Member	9664579062
4	Dr. D. P. Patel, Asst. Professor	Member	9429259249
5	Dr. J. M. Mayani, Asst. Rector & Asst. Professor	Member	9898110173
6	Dr. Prajapati Dixita D. Asst. Rector & Asst. Professor	Member	9724253897
7	Dangariya Vipasha Dhirajbhai, P.G. Student (Horti.)	Student Member (P.G)	9586474537
8	Vaghasiya Sanjana Jayasukhbhai, P.G. Student (Fort.)	Student Member (P.G)	7434988261
9	Dhoom Parth Dinkarbhai, U.G. Student (Fort.)	Student Member (U.G)	7874464902
10	Ramani Ishan Manojbhai, U.G. Student (Horti.)	Student Member (U.G)	7041834529

## 7.4 Gender Committee

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1	Dr. P. K. Shrivastava, I/C Principal & Dean	Chairman	9879575264
2	Dr. Alka Singh, Professor & Head	Co- Chairman	99987s7299
3	Dr. Rehana Niyaria, Asso. Professor & Head	Member Secretary	9898940253
4	Miss Nilamben G. Patel, Senior Clerk	Member	9428885050
5	Kanani Jeel Rajeshbhai, U.G. Student (Horti.)	Member	8128712691
6	Ananya Birendra Prasad, U.G. Student (Fort.)	Member	7567427300
7	Patel Minalben Himanshubhai, U.G. Student (Fort.)	Member	9664632210



### 7.5 Grievance Cell

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1	Dr. O. P Sharma, Professor & Head, Department of Social Sciences	Chairman	9601283381
2	Dr. Alka Singh, Professor & Head, Department of Floriculture & Landscape Architecture	Member	9998757299
3	Dr. M. B. Tandel, Assistant Professor & I/c Head, Department of Silviculture & Agroforestry	Member	9662532811
4	Dr. M. A. Patel, Assistant Professor, Department of Floriculture & Landscape Architecture	Member	8511102869
5	Dr. M. K. Desai, Assistant Professor, Department of Silviculture & Agroforestry	Member	9427694080
6	Dr. Dipal S. Bhatt, Assistant Professor, Department of Floriculture & Landscape Architecture	Member	9909423528

### 7.6 Publication Cell

S.N.	Name and Designation	Position
1	Dr. O. P Sharma, Professor & Head, Dept. of Social Sci.	Chairman
2	Dr. S. N. Saravaiya, Asso. Professor & Head, Dept. of Veg. Sci.	Co-chairman
3	Dr. P. R. Patel, Asso. Professor, Dept of Pl. Prot.	Member
4	Dr. R. V. Tank, Asso. Professor, Dept. of Fruit Sci.	Member
5	Dr. S. L. Chawla, Asso. Professor, Dept. of FLA	Member
6	Er. Parag S. Pandit, Asstt. Professor, PHT	Member
7	Dr. R. P. Gunaga, Asso. Professor & Head, Dept. of FPU	Member
8	Dr. S. K. Jha, Asso. Professor & Head, Dept. of FBTI	Member
9	Dr. V. B. Parekh, Asstt. Professor, Dept. BSH	Member

### 7.7 Placement Cell

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1	Dr. Alka Singh, Professor and Head, Department of Floriculture and Landscape Architecture	Placement Officer	9998757299
2	Dr. Avnish Pandey, Assistant Professor Department of Fruit Science	Assistant Placement Officer	9913028496
3	Er. Parag S. Pandit, Assistant Professor Department of Post Harvest Technology	Assistant Placement Officer	9375523203
4	Dr. Tulsi D. Gurjar, Assistant Professor Department of Fruit Science	Assistant Placement Officer	9427794401

### 7.8 Alumni Cell

S.N.	Name and Designation	Position	Mobile No.
1	Dr. J. M. Vashi, Assistant Professor, Department of Vegetable Science	Chairman	9662532859
2	Dr. V. P. Prajapati, Assistant Professor, Department of Plant Protection	Treasury	9601278020
3	Dr. Shivam T. Bhatt, Assistant Professor (FLA), Horticulture Polytechnic	Member	9879636302

## 7.9 NSS/NCC Activities



Medical Camp on 19.06.2021



International Day of Yoga Celebration at Forestry College on 21.06.2021



NSS volunteers of ACHF and NAU Officers at University Bhavan on 15.08.2021 with Hon'ble Vice Chancellor Dr.Z.P.Patel



Fit INDIA run 2.0 Rally on 28.08.2021



Dr.P.K.Shrivastava, Dean & Principal, ACHF, Faculties and students during Fit INDIA Run 2.0 on 28.08.2021



Hon'ble Vice Chancellor Dr.Z.P.Patel delivering presidential speech during Inter college Zaverchand Meghani Geet Competition on 22.09.2021



Bharodiya Dhruv and Gadhvi Jaydan from ACHF receiving the third and second prize during Inter college Zaverchand Meghani Geet Competition on 22.09.2021







Thalassemia check up camp on 14.12.2021



Blood Donation Camp on 24.09.2021



NSS volunteers (girls) during Dandi Marathon Run on 25.09.2021



Cleanliness At ACHF College on 13.08.2021



Oath taking programme at central examination hall on 17.09.2021





Nutritional Tree Garden Plantation at Swami Vivekananda hostel, ACHF, NAU, Navsari on 08.10.2021

## 7.10 Hostel Facilities



### GIRLS' HOSTEL

ANSUYA GIRLS HOSTEL			AHALYA GIRLS HOSTEL		
Rooms	Beds	Total No. of allotted Beds	Rooms	Beds	Total No. of allotted Beds
23	69	69	22	44	44

## BOYS' HOSTEL

SWAMI VIVEKANANDA HOSTEL			BAGAYAT BOYS HOSTEL		
					
Rooms	Beds	Total No. of allotted Beds	Rooms	Beds	Total No. of allotted Beds
68	136	74	36	108	108

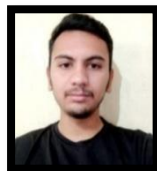
FORESTRY HOSTEL			SANKALP PG BOYS HOSTEL		
					
Rooms	Beds	Total No. of allotted Beds	Rooms	Beds	Total No. of allotted Beds
30	90	90	50	100	72

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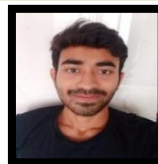


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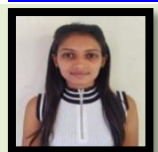
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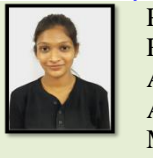
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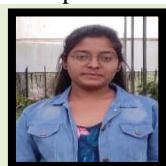


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## 9. VISIT OF DIGNITARIES

S.N.	VIPs/ Guests	Designation and Address	Date of Visit
1	Dr. Z. P. Patel	Honourable Vice Chancellor of Navsari Agricultural University, Navsari	30/11/2021
<b>At ELP Unit (PTC, Floriculture department)</b>			
2	Dr. Z. P. Patel	Hon'ble Vice Chancellor, NAU, Navsari	31/10/2021
3	Dr. (Mrs.) Harshaben Z. Patel	Principal, J P College of Arts and Commerce, Killapardi,	
<b>At ATC on Soilless System for Various Crops</b>			
4	Dr. Z. P. Patel	Hon'ble Vice Chancellor, NAU, Navsari	14/03/2022
<b>At Flower Show, Department of Floriculture and Landscape Architecture</b>			
5	Dr. (Mrs.) Harshaben Z. Patel	Principal, J P College of Arts and Commerce, Killapardi,	14/03/2022
<b>At Floriculture Research Farm</b>			
6	Dr. Sanjay K. Dwivedi	Director, Director of Personnel, DRDO, New Delhi	05/02/2022
7	Dr. Z. P. Patel	Hon'ble Vice Chancellor, NAU, Navsari	23/02/2022
8	Dr. Z. P. Patel	Hon'ble Vice Chancellor, NAU, Navsari	05/07/2021
9	Dr. Z. P. Patel	Hon'ble Vice Chancellor, NAU, Navsari	12/08/2021
10	Shri Dilip Sanghani	Chairman GUJCOMASOL	12/08/2021
11	Dr. Z. P. Patel	Hon'ble Vice Chancellor, NAU, Navsari	02/12/2021



Dr. (Mrs.) Harshaben Z. Patel, Principal, J P College of Arts and Commerce, Killapardi, at Flower Show, Department of Floriculture and Landscape Architecture



Hon'ble Vice Chancellor Dr. Z. P. Patel visited ATC on Soilless System for Various Crops



Dr. Sanjay K. Dwivedi at Floriculture Research Farm



Hon'ble Vice Chancellor Dr. Z. P. Patel at Floriculture Research Farm







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