



ASPEE COLLEGE OF HORTICULTURE AND FORESTRY



ANNUAL REPORT 2020-21

ASPEE College of Horticulture and Forestry
Navsari Agricultural University
Navsari (Gujarat) 396 450, India
www.nau.in

OUR PHILANTHROPIST



A farmer's son, Late Shri Lallubhai Mankanji Patel created an ambitious offspring "ASPEE AGRICULTURAL RESEARCH AND DEVELOPMENT FOUNDATION" on October 17, 1973 with the prime objective of lending a helping hand for the promotion of higher education in agriculture and agricultural engineering and helping farmers to increase agricultural production. His foundation was recognized as a Research Institute by the Council of Scientific and Industrial Research in the year 1974. In this quest, he instituted Junior and Senior Fellowships for studies leading to Masters and Doctoral degrees in Agricultural Sciences, since the inception of the Foundation. Late Shri L. M. Patel began his career as a school teacher in East Africa in 1925 before launching the plant protection venture. He also took part in the freedom struggle and later, joined an engineering concern in Mumbai. He made generous donation through his Foundation for the establishment of Horticulture College at Navsari and hence, the college derived its name as "ASPEE College of Horticulture and Forestry"

LATE SHRI LALLUBHAI MAKANJI

(23-03-1906 to 12-03-1996)

Founder & MD

ASPEE Group of Companies



Annual Report 2020-21

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Navsari Agricultural University
Navsari (Gujarat) 396 450, INDIA
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Annual Report 2020-21

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Patron : **Dr. P. K. Shrivastava**
Principal & Dean
ASPEE College of Horticulture and Forestry
Navsari Agricultural University, Navsari

Editorial Board

Chief Editor : **Dr. O. P. Sharma**
Professor & Head
Department of Social Sciences
ASPEE College of Horticulture and Forestry
Navsari Agricultural University, Navsari

Editors : **Dr. Sanjeev Kumar**
Asstt. Professor (Vegetable Science)
: **Ms. Dixita D. Prajapati**
Asstt. Professor (Fruit Science)

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Navsari Agricultural University, Navsari

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Dr. P.K. SHRIVASTAVA
PRINCIPAL & DEAN



ASPEE COLLEGE OF HORTICULTURE AND FORESTRY
NAVSARI AGRICULTURAL UNIVERSITY
NAVSARI 396 450, GUJARAT, INDIA
Tel. (O): 02637- 282144 Ext.601
Email: deanachf@nau.in

FOREWORD

Annual Progress Report 2020-21 of ASPEE College of Horticulture & Forestry prepared by the publication cell of the College deserves appreciation. The comprehensive documentation of teaching, research and extension activities of the college by the editorial team lead by Dr. O. P. Sharma, Professor, Department of Social Sciences with the assistance from Dr Sanjeev Kumar, Assistant Professor, Department of Vegetable Science and Ms. Dixita Prajapati, Assistant Professor, Department of Fruit Science, is a job well performed. It was amazing to note the range of work done in the college in spite of menacing Covid Pandemic and ensuing lockdowns, throughout the reporting period.

The annual report reflects the work done by teachers, researchers, students, clerical staff and daily wage workers, who have really contributed like pandemic warriors and maintained the time deadlines of all academic and farm activities. It also shows the changes and gradual adaptability to online and offline mode of working by all concerned, that enabled us to cope with the unprecedented challenges of present times. One of the major challenges was for teachers and students, to not only conduct online classes, but also to conduct written as well as oral examinations, the report indicates the regularity in running of degree programmes. The report also indicates the field activities under various research projects continued throughout the year which shows the adaptability, immunity and health of daily wage workers, dedication of investigators to manage time bound field operations and staff providing logistic support who were indirectly instrumental in providing jobs to around four hundred landless labour coming from weaker sections of the society. Appreciation is also due to academic, administrative and accounts staff of the college who have really helped in running the system without any trouble. The report could serve as a reference document while offering online distant certificate courses, suggested by National Education Policy (NEP) which is opening up new horizons of education in India.

I once again thank the editorial team and all the contributors who have helped in preparing the precious document of the college.

Jai Hind



Dr. Z. P. PATEL
VICE CHANCELLOR



NAVSARI AGRICULTURAL UNIVERSITY

NAVSARI AGRICULTURAL UNIVERSITY

NAVSARI 396 450 (GUJARAT) INDIA

Tel. (O): 02637-283869

Fax: 02637-282554 Email: vc@nau.in

MESSAGE

The ASPEE College of Horticulture and Forestry, Navsari Agricultural University, Navsari is a prime institute in the state of Gujarat committed to generate skilled human resources strengthen research as well as extension activities for overall development of horticulture sector. Since its inception in the year 1988, the College has continued its endeavour of generating skilled manpower through quality learning and developing viable, cost-effective and eco-friendly technologies. The college have contributed substantially in main streams- fruit science, vegetable science, floriculture, post harvest technology academically, technically and socially in close coordination with plant protection, natural resource management, social sciences, and basic sciences at state and national level.

The whole world is passing through the most challenging hardship ever due to COVID-19 pandemic and all the sectors have faced and are facing a number of constraints. Despite this unprecedented situation enforced by the pandemic, ASPEE College of Horticulture and Forestry has strived very hard to accomplish its mandate of HRD, technology development and transfer. Undoubtedly, India has achieved tremendous growth in horticulture over the years and even during relentless condition imposed by COVID 19 due to various technological interventions of various horticultural institutes including ASPEE College of Horticulture & Forestry to fulfil social goals.

I am exceptionally pleased to know that ASPEE College of Horticulture & Forestry is publishing the Annual Report for the year 2020-21, 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 the objectives and social goals. The report is an important document for assessing the developments made by any institute and could thus be instrumental in supplementing the future line of action for further improvement in the operating environment of the college.

I accolade the efforts made by the Principal & Dean, ASPEE College of Horticulture and his team for this deed and wish glorious future.

EDITORIAL BOARD

Dr. O.P. Sharma
Chief Editor

Dr. Sanjeev Kumar
Editor

Ms. Dixita D. Prajapati
Editor

ACKNOWLEDGEMENT

The editorial board would like to acknowledge the efforts of all the Heads 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 2020-21 of the college.

Special Thanks to;

1. Dr. V. K. Parmar, Professor & Head, Fruit Science and Dr. Tulsi D. Gurjar, Mrs. Bhoomika A. Patel, Dr. Avnish Pandey, Dr. P.P. Bhalerao and Mrs. Dixita Prajapati
2. Dr. S.N. Saravaiya, Professor & Head, Vegetable Science and Dr. Sanjeev Kumar and Dr. Himani B. Patel
3. Dr. Alka Singh, Professor & Head, Flori. & Landscape Architecture and Dr. M. A. Patel, Dr. Dipal Bhatt and Dr. H.P. Shah
4. Dr. Dev Raj, Professor & Head, Post Harvest Technology and Dr. Nilam V. Patel
5. Dr. H. V. Pandya, Professor & Head, Plant Protection and Dr. P.R. Patel
6. Dr. O. P. Sharma, Professor & Head, Social Sciences and Dr. D. J. Chaudhari
7. Dr. Rehana Niyaria, I/c Professor & Head, Basic Sciences and Dr. Kiran P. Suthar
8. Dr. A. R. Kaswala, I/c Professor & Head, NRM
9. Dr. N. K. Patel, AAO of the college
10. Dr. Y. N. Tandel, UG Incharge of the college
11. Dr R. V. Tank, PG Incharge of the college
12. Dr. J. M. Vashi, NSS Officer
13. Dr. A. A. Kazi, 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) vide Government of Gujarat Resolution No. GKV-1087-3174 K-2 dated 04.11.1988 under the approval of *Krushis* and *Gram Vikas Vibhag*. 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 Mission

Vision: Augmenting the share of horticulture sector in GDP of the state through research and education.

Mission: Generation of human resources through quality learning and development of cost-effective and viable technologies.

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, 4 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

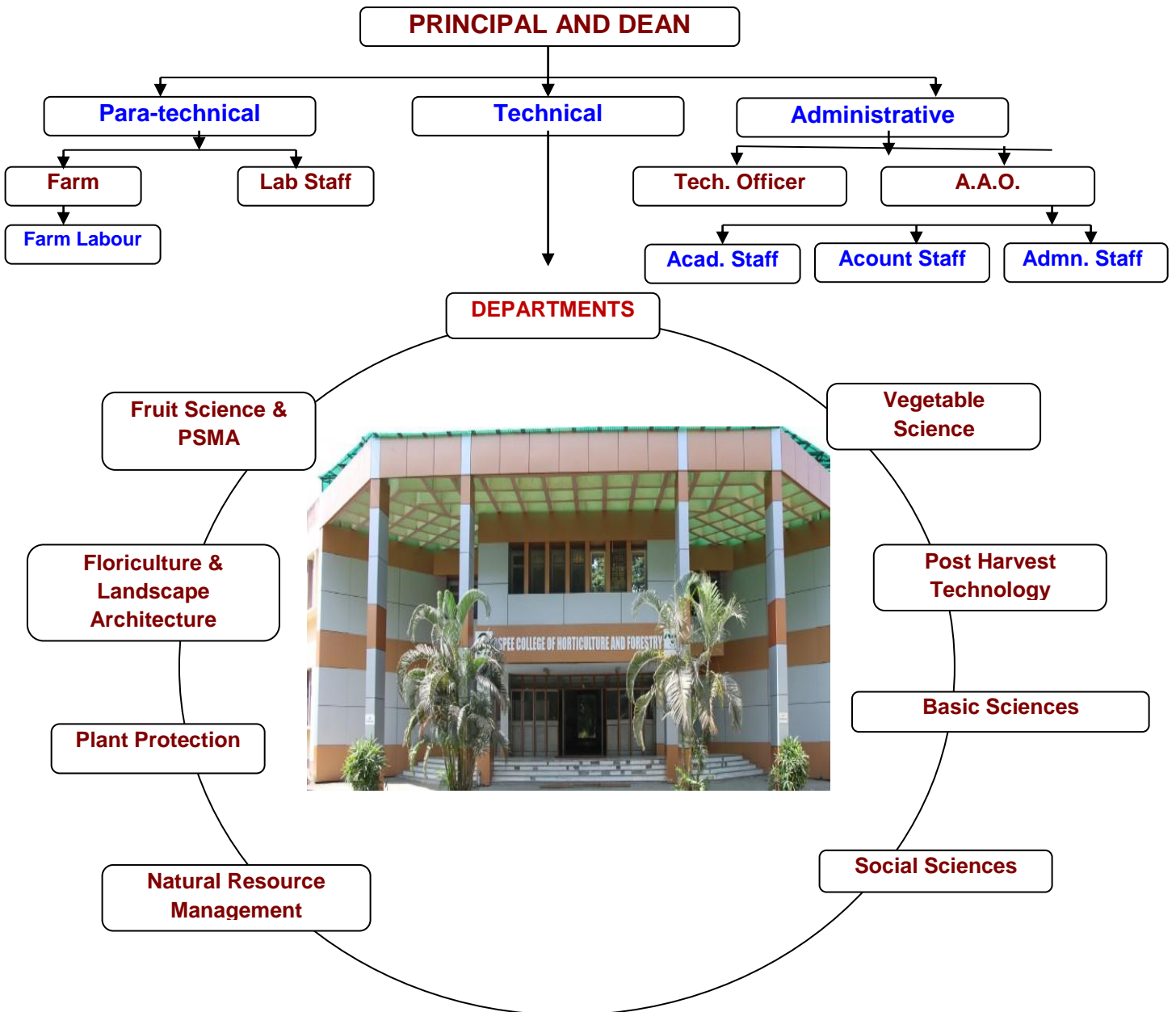
Under the aegis of Navsari Agricultural University (NAU) and ASPEE College of Horticulture, the Regional Horticultural Research Station has been working since 1965 to strengthen various research activities of fruits and vegetables. There are 3 different schemes running under Fruit Science and PAMA namely Strengthening Activities of Fruit Crops, Research in Fruit crops and AICRP on Palms working on various aspects of fruit production, breeding and climate change, and 5 different schemes operational under Vegetable Science *viz.*, Research in Vegetable Crops under Protected Conditions Phase-II, Research and Development in Vegetable Crops, AICRP on Tuber Crops, AICRP on Vegetable Crops and Vegetable grafting to mitigate biotic and abiotic stresses in vegetable crops with different experiments on crop improvement, production technology, protected cultivation and vegetable grafting. In the Department of Floriculture and Landscape Architecture, 3 different research schemes/projects *viz.*, Establishment of Research Project on Floriculture, Practical Training Centre of Hi-Tech Horticulture for Horticultural Students, Advanced Technology centre of Soil-less System for

various Crops and AICRP on Floriculture are operational, under which various research trials on crop improvement, production technology, protected cultivation and soil-less cultivation of flower crops are running. Beside this, two NHM sponsored project *i.e.* Model Nursery for Fruit and Ornamental Plants is also running in which different fruit, vegetable and ornamental seedlings/grafts/plants are prepared and sold to farmers on the basis of no loss no profit basis. 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 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 the 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 at different villages of south Gujarat. Horticultural scientists give their valuable inputs not only to farmers of the state but also to the farmers of other states. 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. Active participation of scientists in *Krishi Mahotsava* – a flagship programme of Government of Gujarat organized to benefit the farmers with Hi-Tech horticultural 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. Shah	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	Continue...

Dr. P.K. SHRIVASTAVA
 Email: deanachf@nau.in
 Contact No.: 02637-282144 Ext.601
 Cell No.: +91 9879575264



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	Continue
5.	Senior Clerk	Ku. Neelam Ghelabhai Patel	30/09//1998	Continue
6.	Senior Clerk	Shree Rajendra Gumanbhai Patel	01/03/2018	Continue
7.	Senior Clerk	Shree Narsinhbhai Maganbhai Patel	14/09/1990	Continue
8.	Senior Clerk	Shree Bharatbhai Dahyabhai Patel	14/09/1990	Continue
9.	Junior Clerk	Smt. Yogitaben Sureshbhai Patel	23/08/2007	Continue
10.	Junior Clerk	Smt. Dipikaben Dhanraj Kolhe	31/08/2012	Continue
11.	Junior Clerk	Shree Satishkumar Ballubhai Patel	31/08/2012	Continue
12.	Peon	-	-	-
13.	Steno Grapher	Smt. Nayanaben Sumanbhai Patel	01/03/2018	Continue
14.	Sweeper	Smt Geetaben Navinbhai Mahida	01/04/2002	Continue
15.	Lab Boy	Shree Gulambhai Daudbhai Khalifa	01/10/2005	Continue
16.	Lab Boy	Shree Dolatray Shukkarbhai Rathod	24/10/1986	Continue
17.	Lab Boy	Shree Bipinbhai Naranbhai Patel	01/04/2002	Continue

1.6.2 Technical Staff Positions (Including plan scheme)

S.N.	Designation	Name of Staff Member	From	To
1.	Senior Technical Assistant	Sh. Gaurangkumar Bipinchandra Desai	25/03/2010	Continue
2.	Agriculture Officer	Shree Prasulkuamr Rameshbhai Patel	04/04/2011	Continue
3.	Agriculture Officer	Shree Ramjibhai Ravjibhai Lad	16/02/2015	Continue
4.	Agriculture Officer	Shree Mahendrasingh Bhikhabhai Chaudhary	01/09/2020	Continue
5.	Agriculture Assistant	Smt. Kirtibahen Parabhubhai Patel	23/09/2015	Continue
6.	Agriculture Assistant	Shree Ishwarbhai Naginbhai Patel	14/12/1992	Continue
7.	Agriculture Assistant	Shree Kunjalkumar Pravinbhai Chauhan	07/09/2017	Continue
8.	Agriculture Assistant	Shree Ashokbhai Khaljibhai Chaudhary	01/03/2014	Continue
9.	Agriculture Assistant	Shree Natubhai Jagubhai Patel	06/01/1994	Continue
10.	Agriculture Assistant	Shree Sanjaykumar Chandrakant Patel	01/08/2017	Continue
11.	Agriculture Assistant	Smt. Sonalben Dhanjibhai Patel	07/09/2017	Continue
12.	Agriculture Assistant	Ku. Ektakumari Ballubhai Patel	11/07/2018	Continue
13.	Agriculture Assistant	Ku. Unnatikumari Dilipbhai patel	01/07/2018	Continue
14.	Agriculture Assistant	Shree Vikaskumar Amrutbhai Patel	24/09/2015	Continue
15.	Agriculture Assistant	Smt. Pinalben Dilipbhai Patel	03/01/2020	Continue
16.	Lab Technician	Amt. Akrutiben Dilipkumar Patel	04/11/2020	Continue
17.	Lab Technician	Shree Gaurangkumar Babubhai Surati	25/03/2010	Continue
18.	Lab Technician	Shree Kapilbhai Gopalbhai Tandel	20/11/2020	Continue
19.	Lab Technician	Bhaviniben Ramanbhai Patel	11/11/2020	Continue
20.	Field Assistant	Shree Sunilkumar Tahkorbhai patel	02/04/2011	Continue
21.	Field Assistant	Smt. Shitalkumari Vinodlal Dhimmar	01/07/2019	Continue
22.	Store Keeper	Smt. Hemlata Kalpeshbhai Patel	02/04/2011	Continue
23.	Plant Operator	Shree Balvantkumar Devabhai Ahir	02/04/2011	Continue
24.	Agriculture Supervisor	Shree Maheshkumar Ramanbhai Patel	01/09/1997	Continue
25.	Agriculture Supervisor	Shree 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
UNDER GRADUATE PROGRAMME					
1.	B.Sc. (Hons.)	Horticulture	8 Semesters	70 (60 + 10 ICAR)	1988-89
POST GRADUATE PROGRAMME					
2.	M.Sc. (Hort.)	1. Fruit Science	4 Semesters (Full time)	09	1998-99
		2. Plantation, Spices, Medicinal & Aromatic Crops (PSMA)		03	2010-11
		3. Vegetable Science		07	1997-98
		4. Floriculture and Landscape Architecture		09	1997-98
		5. Post Harvest Technology	6 Semesters (In-Service)	05	2004-05
		6. Horticultural Entomology		02	2010-11
		7. Horticultural Pathology		01	2011-12
		Total			36
3.	Ph.D (Hort.)	1. Fruit Science	6 Semesters (Full time)	03	2005-06
		2. Vegetable Science		02	2007-08
		3. Floriculture and Landscape Architecture		03	2005-06
		4. Post Harvest Technology	8 Semesters (In-Service)	01	2006-07
		5. Horticultural Entomology		01	2013-14
		6. Horticultural Pathology		01	2014-15
		Total			11

2.2 Academic Achievements

Degree Programmes		No. of students awarded degree
B.Sc. (Hons.) Horticulture		52
M.Sc. (Hort.)	Fruit Science	14
	Plantation, Spices, Medicinal & Aromatic Crops (PSMA)	02
	Vegetable Science	12
	Floriculture and Landscape Architecture	08
	Post Harvest Technology	05
	Horticultural Entomology	02
	Horticultural Pathology	00
Total		43
Ph.D (Hort.)	Fruit Science	05
	Vegetable Science	01
	Floriculture and Landscape Architecture	04
	Post Harvest Technology	01
	Horticultural Entomology	00
	Horticultural Pathology	00
Total		11

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	03	03	01	18	05	16	05	39	14
SC	02	01	00	00	03	02	03	00	08	03
ST/DNT	03	05	03	10	03	07	02	06	11	28
SEBC	14	11	17	09	08	11	06	07	45	38
ICAR	05	02	04	03	08	01	02	03	19	09
EWS	13	01	10	07	00	00	00	00	23	08
Sub-Total	02	00	00	02	00	02	01	01	03	05
Total	41	23	37	32	40	28	30	22	148	105

** including payment 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	02	03	01	18	05	16	05	39	13
SC	02	01	00	00	03	02	03	00	08	03
ST/DNT	03	05	03	10	03	07	02	06	11	28
SEBC	13	10	17	09	08	11	06	07	44	37
ICAR	04	02	04	03	08	01	02	03	18	09
EWS	11	01	10	07	00	00	00	00	21	08
Sub-Total	02	00	00	02	00	02	01	01	03	05
Total	37	21	37	32	40	28	30	22	144	103

** including payment 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	09	00
2.	Plantation, Spices, Medicinal & Aromatic Crops (PSMA)	03	00
3.	Vegetable Science	07	00
4.	Floriculture and Landscape Architecture	10	00
5.	Post Harvest Technology	08	00
6.	Horticultural Entomology	02	00
7.	Horticultural Pathology	00	00
Total		39	00

2.3.4 Discipline wise strength of Ph.D. (Hort.) students

S.N.	Specialization	No. of students registered	
		Full time	In-service
1.	Fruit Science	02	02
2.	Vegetable Science	02	01
3.	Floriculture and Landscape Architecture	01	01
4.	Post Harvest Technology	04	00
5.	Horticultural Entomology	01	00
6.	Horticultural Pathology	00	00
Total		10	04

2.4 Scholarships/Financial Assistance to Students

S. N.	Types of Scholarship/Financial Aid	Number of Recipient	Amount (Rs.)
1	National Talent Scholarship	16-UG & 02 -PG	576000 +38710
2	Merit Scholarship	08	4320
3	NAU UG Scholarship	22	96500
4	NAU PG (M.Sc. & Ph.D.) Scholarship	03	26400
5	SEBC Post Metric Scholarship (UG & PG)	70-UG+24-PG	-
6	SC Post Metric Scholarship	10-UG+06-PG	-
7	ST Post Metric Scholarship	32-UG+08-PG	-
8	Dr. B.R. Ambedkar EBC Scholarship	37-UG+12-PG	-
9	Fellowship scheme for M. Phil, Ph.D. Students (SEBC)	00-PG (Ph.D.)	-
Total		250	741930.00

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

S.N.	Name of Student	Registration No.
1.	Ashly Jossy	3020217001
2.	Baflipara Ronak Rajeshbhai	13020217002
3.	Bhakhar Hirenkumardhirajlal	3020217003
4.	Bhimani Hiral Subhashbhai	3020217004
5.	Bhimani Nidhi	3020217005
6.	Chaudhari Sahil Natavarbhai	3020217006
7.	Drashti Pramodbhai Patel	3020217009
8.	Gandhi Isha Nilehskumar	3020217010
9.	Gaudani Yash	3020217012
10.	Gohel Prashant R.	3020217013
11.	Javiya Anjali	3020217014
12.	Jogal Sunil Keshurbhai	3020217015
13.	Jyotsna PR	3020217016
14.	Kanara Kishan	3020217017
15.	Shailesh Khimani	3020217018
16.	Kishor Varotariya	3020217019
17.	Vivekkumar Ramanlal Lad	3020217020

18.	Lunagariya Ajay Mansukhbhai	3020217021
19.	Manoj Sharma	3020217022
20.	Master Razin Anvar Husen	3020217023
21.	Ms. Pooja	3020217024
22.	Mulani Neha Pravinbhai	3020217025
23.	Mungalpara Rushikkumar Vithhalbhai	3020217026
24.	Ajay Narola	3020217027
25.	Odedara Hitesh Pratapbhai	3020217028
26.	Mulrajsinh Parmar	3020217029
27.	Patel Bhavik Rameshbhai	3020217030
28.	Kanvikumari Nareshbhai Patel	3020217032
29.	Patel Khushbu Cheharbhai	3020217033
30.	Patel Mayank Ganeshbhai	3020217034
31.	Patel Meetkumar Arvindbhai	3020217035
32.	Navangi Patel	3020217036
33.	Riddhi Patel	3020217037
34.	Patel Syuzi Navinbhai	3020217038
35.	Patel Yogvidhya Rameshbhai	3020217039
36.	Dhruvi Prakashbhai Prajapati	3020217041
37.	Prateek Taneja	3020217042
38.	Rankja Raj	3020217043
39.	Savaj Chetan	3020217044
40.	Savaliya Mohit Mathurbhai	3020217045
41.	Solanki Dhara Ramsibhai	3020217047
42.	Sondarva Sagar B.	3020217048
43.	Vekariya Vraj	3020217049
44.	Jigar Chaudhari	3020217050
45.	Dabhi Arunkumar Natavarbhai	5020218001
46.	Ghoniya Keval Mukeshbhai	5020218002
47.	Hirpara Nihar Amrutlal	5020218003
48.	Parmar Yukti Navanitbhai	5020218004
49.	Patel Priyal Nareshchandra	5020218005
50.	Patel Urvashiben Shankarbhai	5020218006
51.	Vaghasiya Sahil Babubhai	5020218007
52.	Tandel Twinkle Anilbhai	5080218008

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

S. N.	Name of Student	Registration No.	Title of the Thesis	Major Guide	Discipline
1.	Ajay Kumar Sahu	2020218001	Effect of post shooting application of fertilizers through pouch feeding on fruit yield and quality attributes in banana cv. Grand Naine	Dr. B.N. Patel	Fruit Science

2.	Boricha Urvashi Kamleshkumar	2020218006	Effect of pre-sowing treatments on seed germination and seedling growth of guava	Dr. B.R. Parmar	Fruit Science
3.	Desai Devanshi Jayeshbhai	2020218011	Effect of Arbuscular Mycorrhizal fungi and bio-inoculants on germination and seedling growth of papaya (<i>Carica papaya</i> L.) var. GJP-1	Dr. R.V. Tank	Fruit Science
4.	Desai Yashkumar Gamanbhai	2020218012	Performance of exotic mango cultivars under south gujarat agro-climatic conditions	Dr. D.K. Sharma	Fruit Science
5.	Lalitha K.R.	2020218017	Effect of chemicals on seed germination and seedling growth of aonla (<i>Emblica officinalis</i> Gaertn.)	Dr. R.V. Tank	Fruit Science
6.	Parmar Bhumikaben Maganbhai	2020218026	Effect of foliar application of micronutrients on growth, yield and quality of strawberry (<i>Fragaria X ananassa</i> Duch.) cv. Winter Dawn	Dr. B.M. Tandel	Fruit Science
7.	Patel Arpitaben Maheshbhai	2020218028	Effect of foliar spray of biostimulants and growth substances on seedling growth of Kagzi lime (<i>Citrus aurantifolia</i> Swingle)	Dr. B.N. Patel	Fruit Science
8.	Patel Jollyben Jayeshbhai	2020218030	Influence of growth substances through injection on yield and quality of banana cv. Grand Naine	Dr. T.R. Ahlawat	Fruit Science
9.	Patel Khushbuben Ashokbhai	2020218032	Evaluation of rejuvenated mango (<i>Mangifera indica</i> L.) cultivars for growth, yield and quality under South Gujarat region	Dr. A.K. Pandey	Fruit Science
10.	Patel Sejalben Bharatbhai	2020218035	Effect of foliar spray of novel organic nutrients on pollen attributes, fruit retention and yield of mango var. Sonpari	Dr.Y.N.Tandel	Fruit Science
11.	Patel Tanviben Ashokbhai	2020218038	Influences of pre harvest treatments on yield and biochemical behaviour of mango cv. Amrapali	Dr. A.K. Pandey	Fruit Science
12.	Prajapati Dipti Rameshbhai	2020218040	Influence of iba and rooting media on stem cuttings of dragon fruit (<i>Hylocereus polyrhizus</i> L.) var. Red Flesh	Dr. B.M. Tandel	Fruit Science

13.	Shailaja H K	2020218045	Effect of pre-harvest bagging on fruit quality of mango var. Sonpari	Dr. B.M. Tandel	Fruit Science
14.	Thejaswini K	2020218047	Effect of foliar spray of growth substances on growth of mango seedling	Dr. S.J. Patil	Fruit Science
15.	Architha M. V.	2020218003	Effect of IBA and media on cuttings of giloy (<i>Tinospora cordifolia</i> (Willd.) Miers)	Dr. M.M. Patel	Plantation, Spices, Medicinal & Aromatic Crops (PSMA)
16.	Parikh Riddhesh Prafulbhai	2020218025	Effect of foliar application of organic liquid sources on growth, yield and quality of turmeric cv. GNT-2	Dr. P.P. Bhalerao	Plantation, Spices, Medicinal & Aromatic Crops (PSMA)
17.	Bambhaniya Kinjal Kalubhai	2020218004	Effect of plant spacing and Nutrient spray on growth, yield and quality of kale (<i>Brassica oleracea</i> var. <i>acephala</i> DC) under different growing environments	Dr. Sanjeev Kumar	Vegetable Science
18.	Bangoria Urvi Vishvashbhai	2020218005	Effect of different plant spacing on performance of different varieties with respect to growth, yield and quality of broccoli (<i>Brassica oleracea</i> var. <i>italica</i> L.)	Dr. N.B. Patel	Vegetable Science
19.	Champaneri Dushyant dipakkumar	2020218007	Response of novel and novel plus organic liquid nutrients on growth and yield of Indian bean [<i>Lablab purpureus</i> (L.) Sweet]	Dr. N.K. Patel	Vegetable Science
20.	Chaudhari Ritaben Ranjitbhai	2020218008	Performance of different organic manures on growth, yield, quality and uptake of nutrients by organically produced vegetable cow pea [<i>Vigna unguiculata</i> (L.) Walp.] cv. GDVC-2.	Dr. D.R. Bhanderi	Vegetable Science
21.	Chaudhary Bharatbhai Devrajbhai	2020218009	Effect of different concentration of ethrel and NAA on growth, fruiting behaviour and yield of cucumber (<i>Cucumis sativus</i> L.) cv. Pusa Sanyog	Dr. S.S. Masaye	Vegetable Science

22.	Gamit Mittalkumari Dhansukhbhai	2020218013	Effect of plant density on growth and yield of sweet potato cv. Bhukanti (<i>Ipomoea batatas</i> L.)	Dr. K.D. Desai	Vegetable Science
23.	Monu kumari	2020218020	Effect of molybdenum and Rhizobium on growth and yield of vegetable cow pea (<i>Vigna unguiculata</i> L.)	Dr. N.B. Patel	Vegetable Science
24.	Nagendra	2020218022	Heterosis and combining ability studies in okra (<i>Abelmoschus esculentus</i> L.)	Dr. K.D. Desai	Vegetable Science
25.	Patel Alka Karmanbhai	2020218027	Effect of bio- stimulant on growth yield and quality of cluster bean (<i>Cymopsis tetragonolobus</i> L.)	Dr. S.Y. Patel	Vegetable Science
26.	Patel Jinal Bharatbhai	2020218029	Effect of different type of mulches on growth, yield and quality of broccoli var. Pusa KTS-1	Dr. S.S. Masaye	Vegetable Science
27.	Rathod Vrushabh Pravinbhai	2020218043	INM in bottle gourd (<i>Laagenaria siceraria</i> (Mol.) Standl.)	Dr. S.Y. Patel	Vegetable Science
28.	Savaliya Pallavkumar Jayendrabhai	2020218044	Effect of foliar application of organic and inorganic nutrients on growth, yield and quality of vegetable cow pea	Dr. V.K. Parmar	Vegetable Science
29.	Alka	2020218002	Effect of various stimulants on growth, flower quality and yield of chrysanthemum	Dr. Dipal S. Bhatt	Floriculture and Landscape Architecture
30.	Chotaliya Kautik Arjanbhai	2020218010	Response of air layering on rooting of rose (<i>Rosa centifolia</i> L.)	Dr. G.D. Patel	Floriculture and Landscape Architecture
31.	Mangroliya Ronak Mukeshbhai	2020218018	Effect of split application of fertilizers on growth, yield and quality of Jasmine (<i>Jasminum sambac</i>)	Dr. S.T. Bhatt	Floriculture and Landscape Architecture
32.	Mistry Kinjal Dipakkumar	2020218019	Effect of growing condition and media on growth and cut green yield of <i>Nephrolepis exaltata</i>	Dr. G.D. Patel	Floriculture and Landscape Architecture
33.	Patel Kalpeshkumar Manaharsinh	2020218031	Effect of pinching and micronutrients on African marigold (<i>Tagetes erecta</i> L.)	Dr. S.A. Aklade	Floriculture and Landscape Architecture

34.	Patel Shivangeeben Ambubhai	2020218036	Effect of different concentrations of IBA and rooting media on growth of Rose cutting (Country rose)	Dr. B.B. Patel	Floriculture and Landscape Architecture
35.	Trivedi Saryu Jaldhibhai	2020218048	Effect of biostimulants on growth and yield in gladiolus	Dr. B.B. Patel	Floriculture and Landscape Architecture
36.	Vidyashree S.	2020218049	Effect of packaging and priming on germination of China aster [<i>Callistephus chinensis</i> (L.) Nees.] seeds	Dr. Sudha Patil	Floriculture and Landscape Architecture
37.	Gohil Mehul Maganbhai	2020218014	Utilization of banana (<i>Musa paradisiaca</i> L.) peel for value addition into 'sev'.	Dr. Dev Raj	Post Harvest Technology
38.	Karangiya Arjun Bhikhabhai	2020218016	Standardization of blended nectar using banana pseudostem sap with cashew apple, pineapple and <i>Aloe vera</i>	Dr. C.S. Desai	Post Harvest Technology
39.	Muhammad Rokai M.	2020218021	Evaluation of banana pseudostem based nectar blended using banana pseudostem sap with apple, pomegranate and <i>aloe vera</i> .	Dr. C.S. Desai	Post Harvest Technology
40.	Ram Bhavin Bachubhai	2020218041	Effect of sweetening agents and pulp proportion on quality of cashew apple (<i>Anacardium occidentale</i> L.) – pineapple (<i>Annanas comosus</i> L.) blended nectar	Dr. N.V. Patel	Post Harvest Technology
41.	Sushmitha M. B.	2020218046	Standardization of blended juice using banana pseudostem sap with noni, <i>Aloe vera</i> and guava	Dr. C.S. Desai	Post Harvest Technology
42.	Patel Saurabh Vitthalbhai	2020218034	Evaluation of botanical extracts against pod borer (<i>Maruca mitrata Fabricius</i>) on cowpea	Dr. H.V. Pandya	Horticultural Entomology
43.	Patel Smitakumari Pravinbhai	2020218037	Management of major pests of rose under field condition	Dr. Snehal Patel	Horticultural Entomology

2.7 Students Awarded Ph.D (Hort.) Degree

S. N.	Name of Student	Registration No.	Title of the Thesis	Major Guide	Discipline
1.	Chaudhary Abhijit Dhanraj	04-1326-2012	Effect of de-blossoming on different mango (<i>Mangifera indica</i> L.) varieties for the induction of off season flowering	Dr. T.R. Ahlawat	Fruit Science

2.	Kachhadia Palak Arvindbhai	1020216005	Effect of foliar spray of silicon and boron on fruiting, nutritional status of leaves and fruit quality of rejuvenated mango (<i>Mangifera indica</i> L.) cv. Sonpari	Dr. B.N. Patel	Fruit Science
3.	Panchal Rajeshkumar Kishorkumar	1020216006	Effect of foliar application of silicon on growth, yield and quality of banana (<i>Musa paradisiaca</i> L.) cv. Grand Nain	Dr. S.J. Patil	Fruit Science
4.	Patel Prasulkumar Rameshbhai	1020216009	Effect of nitrogen and bio-fertilizers on growth, yield and quality of banana (<i>Musa paradisiaca</i> L.) cv. Grand Nain	Dr. B.N. Patel	Fruit Science
5.	Suchismita Jena	1020217012	Genetic architecture for fruit yield and quality attributes in papaya (<i>Carica papaya</i> L.)	Dr. T.R. Ahlawat	Fruit Science
6.	Velamala Sravani	1020217013	Onion [<i>Allium cepa</i> L.] response to plant bioregulators	Dr. S.N. Saravaiya	Vegetable Science
7.	Gurjar Rashmikant Anantray	1020215003	Effect of land configuration and nutrient management on growth, quality and yield of chrysanthemum (<i>Dendratherm grandiflora</i> Tzvelev) var. Thai Chen Queen	Dr. S. L. Chawla	Floriculture and Landscape Architecture
8.	Ahir Tejaskumar Rambhai	1020216001	Effect of various planting dates on performance of China aster [<i>Callistephus chinensis</i> (L.) Nees.] varieties under south Gujarat agro climatic condition	Dr. S. L. Chawla	Floriculture and Landscape Architecture
9.	Patel Henaxiben Babubhai	1020216008	Standardization for production technology of potted Hibiscus var. Red Double	Dr. Alka Singh	Floriculture and Landscape Architecture
10.	Mamilla Sindhuja	1020217006	Morphological, physiological, biochemical and molecular variability study in different genotypes of <i>Adenium obesum</i> (forssk.) Roem.&Schult	Dr. Alka Singh	Floriculture and Landscape Architecture
11.	Sangani Sandeep Labhubhai	1020214014	Studies on preparation of protein enriched pre-biotic carambola-guava blended beverage.	Dr. Dev Raj	Post Harvest Technology

2.8 Post Graduate- Research Approval Committee, Faculty of Horticulture

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 JRF

S.N.	Name of the students	Registration No.	Degree
1.	Patel Dhara Jagadishbhai	3020216031	B. Sc. (Hons.) Horticulture
2.	Tandel Prakruti Ballubhai	3020216051	B. Sc. (Hons.) Horticulture
3.	Ahir Bhumikaben Maheshkumar	3020216001	B. Sc. (Hons.) Horticulture
4.	Dhimmar Shivani Bhikhubhai	3020216008	B. Sc. (Hons.) Horticulture
5.	Patel Dipali Hiteshkumar	3020217004	B. Sc. (Hons.) Horticulture
6.	Pansuriya Rahul Rameshbhai	3020216029	B. Sc. (Hons.) Horticulture
7.	Gamit Jimishkumar Jivanbhai	3020216012	B. Sc. (Hons.) Horticulture
8.	Patel Riddhi Hiteshkumar	3020216039	B. Sc. (Hons.) Horticulture

2.10 Students Qualified SRF

S.N.	Name of Student	Reg. No.	Discipline
1.	Thejaswini K.	2020218047	Fruit Science
2.	Lalitha K. R.	2020218017	Fruit Science
3.	Boricha Urvashi Kamleshkumar	2020218006	Fruit Science
4.	Desai Yashkumar Gamanbhai	2020218012	Fruit Science
5.	Desai Devanshi Jayeshbhai	2020218011	Fruit Science
6.	Ajaykumar Sahu	2020218001	Fruit Science
7.	Monu Kumari	2020218020	Vegetable Science
8.	Nagendra	2020218022	Vegetable Science
9.	Alka	2020218002	Floriculture and Landscape Architecture
10.	Vidyashree S	2020218049	Floriculture and Landscape Architecture
11.	Zhala Kuvarsinh Ravisinh	2020217038	Floriculture and Landscape Architecture
12.	Mangroliya Ronak Mukeshbhai	2020218018	Floriculture and Landscape Architecture
13.	Gohil Mehulbhai Maganbhai	2020218014	Postharvest Technology

2.11 Medals/Awards conferred to the students

S.N.	Name of student & Reg. No.	Award/ Medal/Recognition	Recognized by
1.	Sojitra Gopi Arjanbhai (2020220029)	Vice-Chancellor's Gold Medal	NAU, Navsari
2.	Vashi Henil Dipam (3020216054)	ASPEE Foundation Gold Plated Silver Medal Late Shri Bhulabhai Karsanji Patel Gold Plated Bronze Medal	NAU, Navsari
3.	Shah Smit Bhartiben (2020217032)	ASPEE Foundation Gold Plated Silver Medal for best PG student of M.Sc. Horticulture (Vegetable Science)	NAU, Navsari
4.	Ganta Koteswara Rao (1020216003)	ASPEE Foundation Gold Plated Silver Medal (Ph.D.)	NAU, Navsari
5.	Sangeetha Priya S. (2020217031)	ASPEE Foundation Gold Plated Silver Medal M. Sc. (Hort.) Floriculture & Landscape Architecture	NAU, Navsari

6.	Raghavendra (2020217028)	H.R.	Kalpatharu Gold plated Silver Medal for best research on banana pseudostem and Academic excellence	NAU, Navsari
7.	Jyoti Uppar (2020217012)		Late Mrs. Indumatiben and Dr. Pravinbhai Shukla Gold Plated Bronze Medal	NAU, Navsari

Glimpses of Medals/Awards to the students



Sojitra Gopi Arjanbhai receiving the Vice-chancellor's Gold Medal for B.Sc. (Hons.) Horticulture



Sangeetha Priya S. receiving ASPEE Foundation Gold Plated Silver Medal for M.Sc. Horticulture (FLA)



Shah Smit Bhartiben receiving ASPEE Foundation Gold Plated Silver Medal for M.Sc. Horticulture (Veg. Sci.)



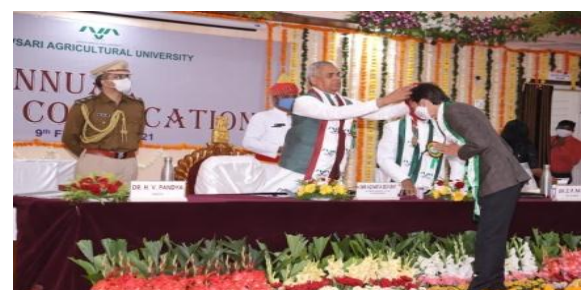
Jyoti Uppar receiving Late Mrs. Indumatiben and Dr. Pravinbhai Shukla Gold Plated Bronze Medal for M.Sc. Horticulture (PSMA)



Ganta Koteswara Rao receiving ASPEE Foundation Gold Plated Silver Medal for Ph.D. (Horticulture) Vegetable Science



Raghavendra H R receiving Kalpataru Gold Plated Silver Medal for MSc. Horticulture (Postharvest Technology)



Henil Dipam Vashi receiving the ASPEE Foundation Gold Plated Silver Medal & Late Sh. Bhulabhai Karsanji Patel Gold Plated Bronze Medal for B.Sc. (Hons.) Horticulture

2.12 Student READY- Experiential Learning Programme

Income and Profit Sharing among students

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.
Group I							
HWE 7.1 (0+10)	Protected Cultivation of High Valued Horticultural Crops	27	8610	60680	52070	26035	964
HWE 7.4 (0+10)	Floriculture and Landscape Architecture	27	00	00	00	00	00
Group II							
HWE 7.2 (0+10)	Commercial Production of Horticultural Planting Materials	25	38984	107150	68166	34083	1363
HWE 7.3 (0+10)	Post Harvest Handling and Value Addition in Horticultural Crops	25	76868	100210	23342	11671	466
	Total	52	124462	268040	143578	71789	

Activities under ELP

Model 1: Protected Cultivation of High Valued Horticultural Crops

WEBINAR SERIES (2020-21) under Student READY (EXPERIENTIAL LEARNING PROGRAM) (Rural Entrepreneurship Awareness Development Yojana): A motivational Initiative leading to Entrepreneurship during COVID 19 Pandemic

ASPEE College of Horticulture & Forestry took an initiative under the dynamic Leadership of Dr. **Z.P. Patel**, Hon'ble Vice-Chancellor, Navsari Agricultural University, Navsari to organize a Webinar Series under Student READY-EXPERIENTIAL LEARNING PROGRAM (Rural Entrepreneurship Awareness Development Yojana) on e platform, which was proposed as a motivational Initiative leading to Entrepreneurship during COVID 19 Pandemic and officially inaugurated on November 06, 2020. The inaugural ceremony of the Series was presided over by Dr. **Z.P. Patel**, Hon'ble Vice Chancellor, Navsari Agricultural University, Navsari and the Chief Guest was Dr. **R. C. Agrawal**, Hon'ble Deputy Director General (Agri. Education), ICAR, New Delhi. **Padma Sh. Prof Brahma Singh**, Former Director, Life Science, DRDO, New Delhi and Dr. Naveen Patle, Additional Commissioner (Horticulture), Government of India, New Delhi were the c Guest of Honour of this ceremony. The online ceremony of this Series was enlightened by the gracious presence of dignitaries Hon'ble Vice Chancellor and the President of ceremony, Dr. Z.P. Patel; Hon'ble Deputy Director General (Agri. Education), ICAR, New Delhi, **Dr. R. C. Agrawal**,; Former Director of DRDO, Former Director, Life Science, DRDO, New Delhi and Guest of Honour, Padma Shree Prof. Brahma

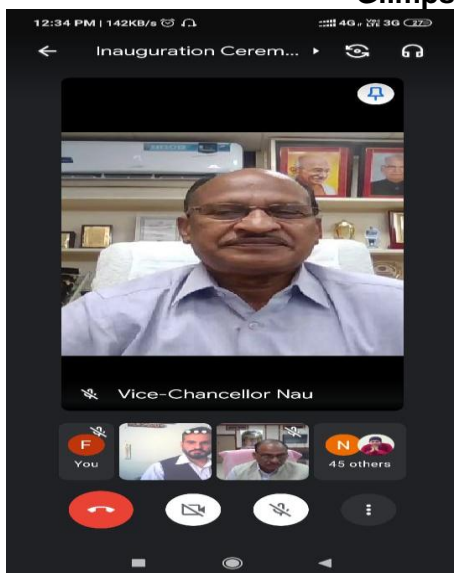
Singh; **Additional Commissioner (Horticulture), Government of India, New Delhi, Dr. Naveen Patle and Guest of Honour;** Director of Research, Navsari Agricultural University, Dr. S. R. Chaudhary; **Principal & Dean cum CEO (Student READY),** ASPEE College of Horticulture and Forestry, **Dr. P.K Shrivastava;** NAU ELP Coordinator, Dr. T.R. Ahlawat, ADR, NAU, Navsari and Series Coordinator, Dr. Sanjeev Kumar.

The Sessions under this Webinar Series commenced from November 10, 2020 and continued till December 03, 2020 highlighting the technical talks on various aspects like Basic requirements for project formulation in terms of loan and subsidy for Agri projects , NABARD Initiates on Agri Entrepreneurship, Agriculture Entrepreneurship and Banking Synergy Program, including the technical and practical approaches related to 4 ELP Modules namely Protected Cultivation of High Valued Horticultural Crops, Commercial Production of Horticultural Planting Materials, Post Harvest Handling and Value Addition in Horticultural Crops, Floriculture and Landscape Architecture. The details of session taken up in this series are given below:

Day to Day Schedule of Webinar Series (2020-21)			
Sr. No.	Lead Speakers	Topic of the talk	Date/Day/Time
1.	CA Vinodchandra G. Desai, Agro Projects-Finance Consultant, Navsari	Basic requirements for project formulation in terms of loan and subsidy for Agri projects	November 10, 2020 (Tuesday at 10.00 hrs)
2.	Mr. Anil Purohit, District Development Manager, NABARD, Surat	NABARD Initiates on Agri Entrepreneurship	November 20, 2020 (Friday at 10-11 hrs)
3.	Dr. Balraj Singh, Project Coordinator- Honey Bees & Pollinators, ICAR-IARI New Delhi	Protected Cultivation of High Value Vegetable Crops, Cut Flowers, and on farm handling and marketing of produce	November 20, 2020 (Friday at 11-12 hrs)
4.	Swasti Sarita Kundu, IDBI Bank Ltd., AGM-Assets, Kolkata Zone	Agriculture Entrepreneurship and Banking Synergy Program	November 22, 2020 (Sunday at 11-12 hrs)
5.	Dr. Awani Kumar Singh, Principal Scientist, ICAR-CPCT-IARI, New Delhi	Experiences in Vegetables production and protection through protected cultivation technologies in Indian Climatic Conditions and situations	November 24, 2020 (Tuesday at 10-11 hrs)
6.	Dr. Ajay Sood, Principal Scientist, Department of Entomology, CSK HPKV, Palampur (HP)	Insect-pests and their management under protected cultivation	November 24, 2020 (Tuesday at 11-12 hrs)
7.	Er. P.S. Pandit (PHT), ACHF, NAU, Navsari	Packaging and marketing of processed products	November 27, 2020 (Friday at 10-11 hrs)
8.	Er. A.K. Senapati (PHT), ACHF, NAU, Navsari	Post harvest management and processing of vegetable crops	November 27, 2020 (Friday at 11-12 hrs)
9.	Mrs. Asha Naik, Entrepreneur, Belgaum	Value addition in flowers	December 01, 2020 (Tuesday at 10-11 hrs)
10.	Dr. Alka Singh, Professor & Head (Flori.), ACHF, NAU, Navsari	Scope of Floriculture for entrepreneurship	December 01, 2020 (Tuesday at 11-12 hrs)

11.	Dr. H.P. Shah (Flori), ACHF, NAU, Navsari	Orchids in greenhouse	December 02, 2020 (Wednesday at 10-11 hrs)
12.	Dr. Desh Raj, Professor (Flori.), Department of Vegetable Science & Floriculture, CSKHPKV Palampur (HP)	Production of quality planting material in indoor ornamental plants	December 02, 2020 (Wednesday at 11-12 hrs)
13.	Dr. I.B. Maurya, Dean, College of Horticulture & Forestry, Jhalawar	High Tech nursery for entrepreneurship	December 03, 2020 (Thursday at 10-11 hrs)
14.	Dr. S.K. Jain, Director Extension Education, Agriculture University, Kota, Rajasthan	Safe handling of vegetable crops for shelf life extension	December 03, 2020 (Thursday at 11-12 hrs)

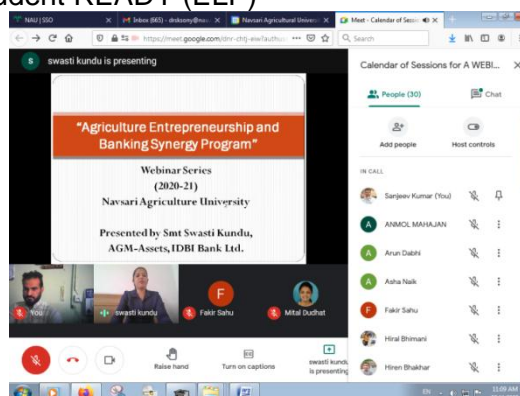
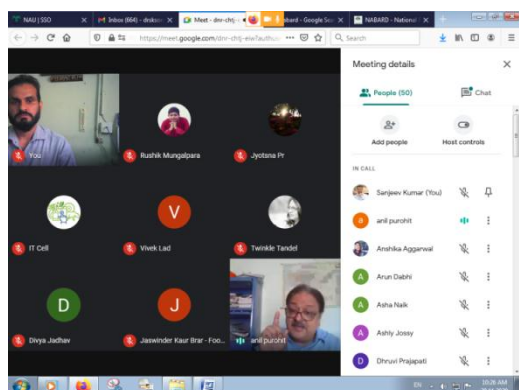
Glimpses of Webinar Series

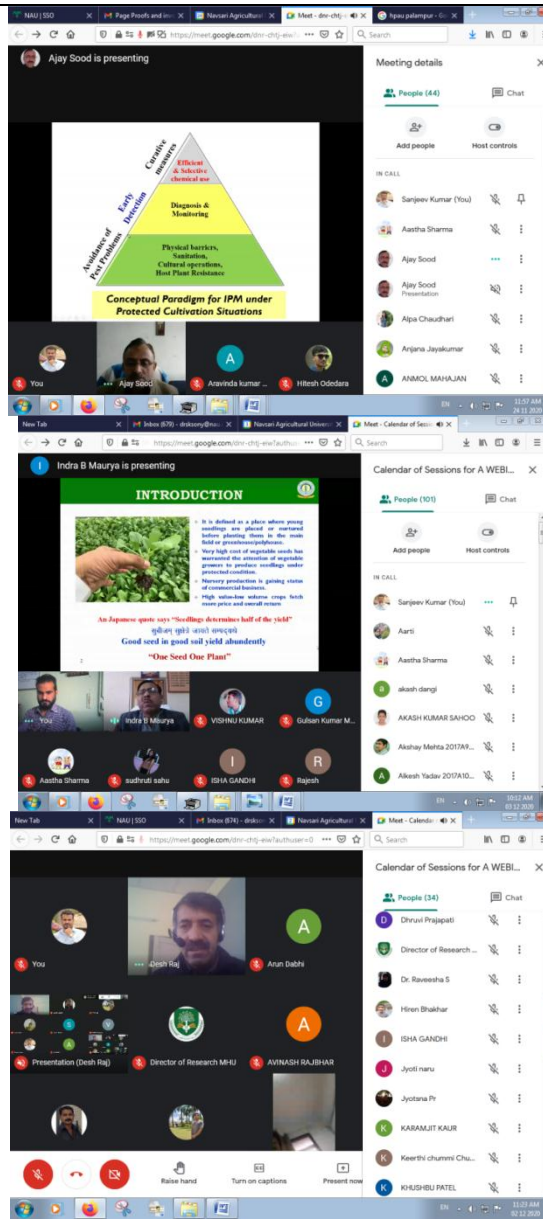
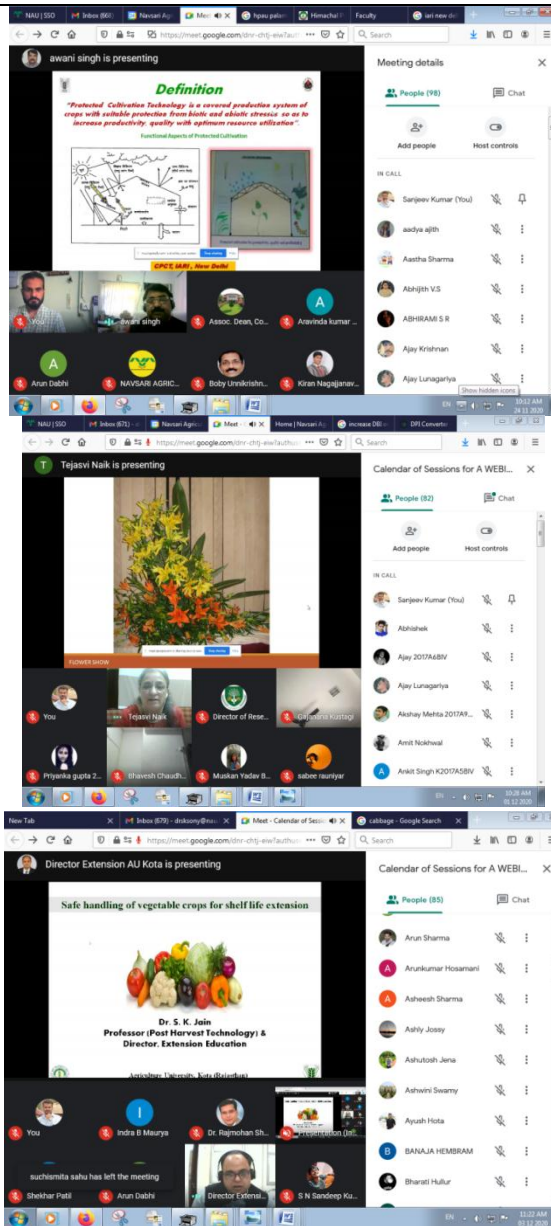


Dr. Z.P. Patel, Hon'ble Vice-Chancellor, NAU, Navsari during his presidential address in the inaugural ceremony of Webinar Series (2020-21) under Student READY (ELP)



Dr. R.C. Agrawal, Hon'ble DDG (Agri. Education), ICAR, New Delhi during his address as the Chief Guest of the inaugural ceremony of Webinar Series (2020-21) under Student READY (ELP)





Motivation of ELP students for participation in competition and success

Ashly's Experience about microgreens

As a part of our ELP, Dr. Sanjeev Kumar sir instructed our batch to grow microgreens at our home. Under his instructions and guidance, I grew microgreens. I prepared and enjoyed many dishes out of it. Later, sir encouraged me to participate in "Grow Microgreens at Our Home" contest organized by IFTR, Chennai as part of World Science Day Celebration. In the contest, I was selected as one of the best entries. I am very thankful to Dr. Sanjeev sir for encouraging and motivating me to participate in the contest and achieve success. It was a new and nice experience.

Jyotsna's Experience about microgreens

Due to corona pandemic, we were unable to carry out the hands-on-training under ELP that was supposed to be held at our college. So as a part of ELP, microgreens were cultivated at our home under the guidance of Dr. Sanjeev Kumar sir. We also prepared few dishes out of it and it was a good experience to enjoy the dish prepared from what we have cultivated on our own. With this

knowledge I was also able to participate in a competition "Grow microgreen at our home" organized by IFTR Chennai as a part of World Science Day. I am very thankful to Dr. Sanjeev Kumar sir for motivating me to come forward and participate in the competition and achieve success.



Model 2: Commercial Production of Horticultural Planting Materials



Preparation of dragon fruit cuttings



Filling of bags for seeds sowing and cuttings



Cocopeat preparation for seed sowing



Preparing media for filling trays



Sowing of aonla seeds in plug trays



Preparing pineapple crowns for planting



Nipping in guava



Sowing of vegetable seeds



Watering in nursery beds

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



Preparation of Mix fruit jam



Preparation of peas for frozen



Mango squash prepared by ELP students



Pineapple nectar prepared by ELP students



Guava nectar prepared by ELP students

2.13 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	3	1	Plan
3.	Associate Professor	131400-217100	12237	12	8	4	Plan
4.	Assistant Professor	57700-182400	12237	27	27	0	Plan
5.	Principal	144200-218200	12952	1	0	1	Plan
6.	Professor	144200-218200	12952	4	2	2	Plan
7.	Associate Professor	131400-217100	12952	10	3	7	Plan
8.	Assistant Professor	57700-182400	12952	21	20	1	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	1	1	Plan
16.	Assoc. Research Scientist	79800-211500	12019	1	0	1	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	1	0	Plan

20.	Assistant Research Scientist	57700-182400	12017	1	1	0	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	1	0	Non-Plan
24.	Professor	144200-218200	6503-3	1	1	0	Non-Plan
25.	Associate Professor	79800-211500	6503-3	2	2	0	Non-Plan
26.	Assistant Professor	57700-182400	6503-3	2	2	0	Non-Plan
27.	Assistant Extension 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	2	0	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	5	0	Non-Plan
		25500-81100	5228	1	1	0	Non-Plan

		25500-81100	12041	1	1	0	Plan
		25500-81100	12014-05	1	1	0	Plan
5.	Tractor Driver	-	-	-	-	-	-
6.	Lab Technician	29200-92300	12237	1	0	1	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	2	0	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	3	2	Plan
6.	Peon/Lab Boy	14800-47100	12237	1	0	1	Plan
7.	Lab boy	14800-47100	12014-05	3	3	0	Plan
8.	Mazdur/ Supporting Staff	14800-47100	2044	1	0	1	ICAR
9.	Steno Grapher	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.	Budget DDO-329	Name of The Scheme and Centre	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	12097	STRENGTHENING DEPARTMENT OF BIOTECH NAVSARI (ASPEE) (Merged with 027/12969 From 2017-18)	12.50	14.00	0.60	27.10	12.29	13.88	0.58	26.75	0.08
2	12237	STRENGTHENING OF HORTI FACULTY DEAN NAVSARI (ASPEE)	664.69	125.20	0.00	789.89	660.78	120.09	0.00	780.87	99.16
3	12508	ESTT OF MALI TRANING NAVSARI (ASPEE)	0.00	1.10	0.00	1.10	0.00	1.10	0.00	1.10	0.00
4	12940	ESTTBLISHMENT OF FRUIT & VEGETABLE PACKAGING RESEARCH CENTER AT NAVSARI	0.70	7.10	0.00	7.80	0.69	7.08	0.00	7.77	0.21
5	12946-E	GENETIC ENHANCEMENT OF NICHE CROPS OF SG CONVE & BIO-TECHNO, NAVSARI (ASPEE)	1.05	2.50	0.00	3.55	1.01	2.49	0.00	3.50	0.09
6	12970	ESTA OF PRACT TRAIN CENTRE OF HORTI STUDENT FOR HIGH-TECH HORTI, NAVSARI (ASPEE)	0.00	23.50	0.00	23.50	0.00	23.46	0.00	23.46	0.04
7	12014-05	TISSUE CULTURE & FRUIT CROPS, PARI (Marged with 029/12092 From 2017-18)	25.75	12.00	0.00	37.75	24.96	11.91	0.00	36.87	0.00
8	12017	REASERCH IN VEGETABLE CROPS UNDER PROTECTED CONDITIONS PHASE- II	34.88	12.20	0.00	47.08	34.47	12.20	0.00	46.66	1.02
9	12019	STRATEGIES TO MITIGATE THE IMPACT OF CLIMATE CHANGE NAVSARI	27.40	7.00	0.00	34.40	27.13	6.90	0.00	34.03	0.13
10	12021	DEVELOPMENT OF HYBRIDS IN VEGETABLE ESPECIALLY IN OKRA, BRINJAL, TOMOTO AND CAPSICUM, NAVSARI	13.55	18.50	0.00	32.05	13.20	18.50	0.00	31.70	1.36
11	12022	STRENGTHNING OF ORGANIC FARMING CELL, NAVSARI	11.00	13.25	0.00	24.25	10.40	13.25	0.00	23.65	7.70
12	12025	RESEARCH AND DEVELOPMENT IN FRUIT CROPS (12095, 12137 MERGED)	33.00	30.90	0.00	63.90	31.51	30.90	0.00	62.41	3.04

13	12041	ADVANCED TECHNOLOGY CENTER OF SOIL LESS SYSTEM FOR PRODUCTION OF VARIOUS CROPS AT NAVSARI.	14.20	8.80	0.00	23.00	12.86	8.75	0.00	21.61	0.06
14	12046-01	ESTABLISHMENT OF RES PROJECT ON HORTICULTURE, NAVSARI (ASPEE)	12.20	16.42	0.00	28.62	11.96	16.39	0.00	28.34	0.55
15	12244	PG PROGRAMME ON PHT OF HORTICULTURAL CROPS	46.39	30.54	0.00	76.93	46.11	27.26	0.00	73.38	5.20
16	12703-A	FELLOSHIP FOR PG STUDIES OF VARIOUS FACULTIES , ASPEE HORTI, NAVSARI	0.00	0.81	0.00	0.81	0.00	0.81	0.00	0.81	0.09
17	12935	CENTRE OF EXCELLANCE ON POST HARVEST, NAVSARI (ASPEE)	0.00	22.00	1.50	23.50	0.00	21.80	1.48	23.28	0.28
18	12972-A	SCHEME FOR FELLOWSHIP TO UG STUDENTS OF VARIOUS FACULTIES, ASPEE HORTI. COLLEGE, NAVSARI	0.00	1.48	0.00	1.48	0.00	1.48	0.00	1.48	0.00
NON PLAN											
19	4801-A	MARIT TO POOR BOYS FELLOWSHIP SCOLARSHIP ASPEE NAVSARI	0.00	0.09	0.00	0.09	0.00	0.08	0.00	0.08	0.00
20	5014-03	SCHEME FOR RESEARCH IN FRUIT CROP (HORTICULTURE), NAVSARI	38.47	4.55	0.00	43.02	37.75	4.55	0.00	42.30	50.10
21	6503-03	DEPARTMENT OF HORTICULTURE, NAVSARI	72.26	0.00	0.00	72.26	72.10	0.00	0.00	72.10	10.04
ICAR											
22	2006-03	AICRP ON TUBER CROPS, ASPEE	23.13	11.49	0.00	34.62	20.01	7.69	0.00	27.70	0.91
23	02006-03-01	Schedule Cast Sub Plan (SCSP)	0.00	3.50	0.60	4.10	0.00	3.49	0.00	3.49	0.00
24	2044	AICRP ON PALMS (COCONUT)	13.30	8.45	0.00	21.75	10.03	8.45	0.00	18.48	8.40
25	02044-A	AICRP ON PALMS (TSP)	0.10	1.70	0.00	1.80	0.00	1.70	0.00	1.70	0.00
26	2058	AICRP Veg Crops, Principal, ASPEE College, Navsari	0.00	5.08	0.00	5.08	0.00	4.88	0.00	4.88	0.08
27	2006-03-R1	ICAR FARM RECEIPT 37.5%	0.00	0.63	0.00	0.63	0.00	0.00	0.00	0.00	0.00
28	2044-R	ICAR FARM RECEIPT 37.5%	0.00	4.10	0.00	4.10	0.00	4.10	0.00	4.10	0.00
29	2058-R	ICAR FARM RECEIPT 37.5%	0.00	0.53	0.00	0.53	0.00	0.00	0.00	0.00	0.00

30	2100	"AICRP on Floriculture"	0.00	4.24	0.00	4.24	0.00	3.41	0.00	3.41	0.00
31	2100/0 1	Tribal Sub Plan (TSP)	0.00	2.50	1.00	3.50	0.00	0.00	0.00	0.00	0.00
NSS											
32	4802/A	N.S.S. SCHEME, ASPEE COLLEGE & HORTICULTURE POLITEKNIKA, NAVSARI	0.00	0.46	0.00	0.46	0.00	0.39	0.00	0.39	0.00
OTHER AGENCIES											
33	14052	INVESTI. OF MAJOR QUA. PESTS AND POST HAR. DISEASE OF MANGO IN S.GUJ. AND MASS PROD. OF FRUIT FLY TRAP	0.00	3.66	0.00	3.66	0.00	1.83	0.00	1.83	0.00
34	14054	VEGETABLE GRAFTING TO MITIGATE BIOTIC AND ABIOTIC STRESSES IN VEGETABLE CROPS	0.00	27.60	70.0	97.60	0.00	0.00	12.2 5	12.2 5	0.00
35	18139	ORGANIC FARMING MODEL FARM AND RESOURCE PHARFAMA ST.	0.00	1.02	0.00	1.02	0.00	1.02	0.00	1.02	0.00
36	18196	PERFORMANCE EVALUATION OF CONVEYOR TYPE HOT WATER SYSTEM FOR BITTER GOURD	0.00	0.75	0.00	0.75	0.00	0.05	0.00	0.05	0.00
37	18198	ESTABLISHMENT OF BIO-AGENT PRODUCTION LABORATORY FOR MAJOR PESTS AND DISEASES OF HORTICULTURAL CROP	0.00	6.15	26.4	32.56	0.00	1.58	0.00	1.58	0.00
38	18206	DEVELOPMENT OF DESCRIPTORS AND DUS TESTING GUIDELINES FOR EUCALYPTUS	4.93	3.23	0.67	8.84	1.58	3.22	0.66	5.47	0.00
39	18208	EVALUATE THE FORCHLORFENURON 01% LIQ (CPPU) FOR FRUIT SET, RETENTION AND POSTHARVEST QUALITY OF MANGO	1.44	1.81	0.00	3.25	0.00	1.19	0.00	1.19	0.00
40	18217	DEVELOPMENT OF DUS TEST GUIDELINES FOR SAPOTA (PPV&FRA)	4.25	4.75	0.00	9.00	0.00	0.00	0.00	0.00	0.00
41	18218	SURVEY, SELECTION, PHYTO-CHEMICAL EVALUATION, MOLECULAR, CYTOGENETICAL CHARACTERIZATION AND MULTILLOCATION TESTING OF HARAR IN INDIA	0.00	4.31	0.00	4.31	0.00	0.00	0.00	0.00	0.00

42	18930/01	NATIONAL HORTICULTURE MISSION ASPEE O A NAVSARI	0.00	1.20	0.00	1.20	0.00	1.20	0.00	1.20	0.00
43	18000	RTI FEES & CHARGES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
44	18050	SCRAPT RECEIPT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81
45	18100	BANK INTEREST INCOME, ASPEE COLLEGE, NAVSARI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
46	18170	STATE GOVERNMENT TABLET SCHEME (2017)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
PLAN WORKS											
47	1534	MINOR & ORIGINAL WORKS AT CAMPUS / ZONES, ASPEE HORT. COLLEGE, NAVSARI	0.00	1.50	0.00	1.50	0.00	1.48	0.00	1.48	0.00
48	12600-N	CLASSIFIED WORKS (ASPEE COLLAGE) NAVSARI	0.00	1.50	0.00	1.50	0.00	0.57	0.00	0.57	0.00
ICAR ADHOC											
49	15082	SENIOR/JUNIOR RESEARCH FELLOWSHIP, ASPEE NAVSARI	0.00	18.54	0.00	18.54	0.00	18.33	0.00	18.33	0.00
50	15086	National Talent Scholarship	0.00	14.50	0.00	14.50	0.00	12.69	0.00	12.69	0.00
51	15088	JUNIOR RESEARCH FELLOWSHIP(PGS)	0.00	23.13	0.00	23.13	0.00	22.44	0.00	22.44	0.00
52	15097	Student READY(RAWE) Scheme	0.00	20.88	0.00	20.88	0.00	20.88	0.00	20.88	0.00
53	15097-A	Student READY(RAWE) Scheme	0.00	3.48	0.00	3.48	0.00	0.00	0.00	0.00	0.00
54	26096	INDO-AFGHAN FELLOWSHIP PROGRAMME	0.00	9.56	0.00	9.56	0.00	4.19	0.00	4.19	0.00
55	31005-R	1.3.1. Repair / Renovation of Hostel	0.00	0.00	5.70	5.70	0.00	4.28	0.89	5.16	0.00
56	31010-R	1.3.2.Repair / Renovation of Examination / Laboratories / Sports facility / Green initiatives	0.00	0.00	1.56	1.56	0.00	1.24	0.00	1.24	0.00
57	31011-R	1.3.2.Repair / Renovation of Examination / Laboratories / Sports facility / Green initiatives	0.00	0.00	6.00	6.00	0.00	6.00	0.00	6.00	0.00
58	31018-R	2.2.Equipment for UG & PG Laboratories / sports facility Green Initiatives excluding computer & its peripherals	0.00	0.00	0.38	0.38	0.00	0.10	0.25	0.35	0.00
59	31019-R	2.2.Equipment for UG & PG Laboratories / sports facility Green Initiatives excluding computer & its peripherals	0.00	0.00	1.12	1.12	0.00	0.00	1.12	1.12	0.00

60	31024-R	7.3.Furniture and Fixture for Laboratory	0.00	0.00	2.00	2.00	0.00	1.82	0.18	2.00	0.00
61	32028-R	9.1.2. Strenghtening of UG/PG Teaching	0.00	1.56	0.00	1.56	0.00	0.09	0.00	0.09	0.00
62	31029-R	9.1.2. Strenghtening of UG/PG Teaching	0.00	0.40	0.00	0.40	0.00	0.33	0.00	0.33	0.00
63	31036-R	9.2.1. Tutorials for SC/ST Students Including Agri-Unifest & Agri-Sports	0.00	0.46	0.00	0.46	0.00	0.00	0.46	0.46	0.00
64	31043-R	1.3.1. Repair / Renovation of Hostel	0.00	0.00	5.00	5.00	0.00	0.93	4.00	4.93	0.00
65	31047-R	2.1 Equipment for Central Instrumentation Facility	0.00	0.00	1.84	1.84	0.00	0.30	1.47	1.77	0.00
66	31050-R	2.1 Equipment for Central Instrumentation Facility	0.00	0.00	4.15	4.15	0.00	0.03	4.12	4.15	0.00
67	32005	1.3.1. Repair / Renovation of Hostel	0.00	0.00	2.00	2.00	0.00	1.30	0.00	1.30	0.00
68	32006	1.3.1. Repair / Renovation of Hostel	0.00	0.00	3.00	3.00	0.00	0.00	3.00	3.00	0.00
69	32008	1.3.2.Repair / Renovation of Examination / Laboratories / Sports facility / Green initiatives	0.00	0.00	3.25	3.25	0.00	1.69	1.35	3.04	0.00
70	32009	1.3.2.Repair / Renovation of Examination / Laboratories / Sports facility / Green initiatives	0.00	0.00	0.75	0.75	0.00	0.00	0.75	0.75	0.00
71	32011	1.3.3 Refurbishing of Smart Class Rooms	0.00	0.00	10.00	10.00	0.00	0.29	9.71	10.00	0.00
72	32012	2.1 Equipment for Central Instrumentation Facility	0.00	0.00	1.50	1.50	0.00	0.00	1.42	1.42	0.00
73	32013	2.1 Equipment for Central Instrumentation Facility	0.00	0.00	1.50	1.50	0.00	0.04	1.44	1.48	0.00
74	32019	2.2.Equipment for UG & PG Laboratories / sports facility Green Initiatives excluding computer & its peripherals	0.00	0.00	3.00	3.00	0.00	0.37	2.12	2.49	0.00
75	32020	2.2.Equipment for UG & PG Laboratories / sports facility Green Initiatives excluding computer & its peripherals	0.00	0.00	3.00	3.00	0.00	0.18	2.81	2.99	0.00
76	32030	9.1.2. Strenghtening of UG/PG Teaching	0.00	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.00
77	32031	9.1.2. Strenghtening of UG/PG Teaching	0.00	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.00
78	32040	9.2.1 Student and Faculty Amenities:Tutorials for SC/ST Students : Students Counseling.	0.00	0.25	0.00	0.25	0.00	0.25	0.00	0.25	0.00

3.5 College Recurring Funds

Sr. No.	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 COLLE) NAVSARI	0.41	0.00	0.41	1.05
2	9510-N-92	Horticulture Works Farm Receipt Nursery at Aspee College	1.83	0.00	1.83	3.26
3	9510-N-93	Horticulture Works Farm Receipt at Aspee College	1.64	0.00	1.64	6.01
4	9510-N-94	College of Forestry Bamboo Resource Center Income	0.42	0.00	0.42	4.15
5	9510-N-3	NAU REVOLVING FUND (HORTI) , NAVSARI	15.09	0.39	15.48	14.34
6	9510-N-63	REVOLVING FUND COMMERCIAL APPICULTURE ASPEE NAVSARI	5.66	0.00	5.66	4.43
7	9510-N-64	REVOLVING FUND NATURE AND WILD LIFE PHOTOGRAPHY ASPEE NAVSARI	1.78	0.00	1.78	0.85
8	9510-N-81	Purchase Equipment for Nursery at Aspee College	0.00	0.00	0.00	0.17
9	9510-N-83	Certificate Course in Turfgrass Management at ASPEE College. Navsari	0.01	0.00	0.01	0.00
10	9510-N-86	ELP Unit Development of Quality Planting Material in Forestry, Aspee College, NAU, Navsari	2.07	0.00	2.07	1.42
11	9510-N-88	College of Forestry New Revolving Budget Head 2017-18	0.00	0.00	0.00	3.47
12	9510-N-39	NAU REVOLVING FUND, BIO TECH NAVSARI	2.08	0.00	2.08	5.79
13	9510-N-48	NAU REVOLVING FUND, ASPEE NAVSARI	0.00	0.00	0.00	1.04
14	9510-N-50	NAU REVOLVING FUND, ASPEE, NAVSARI	1.43	0.40	1.83	1.19
15	9510-N-60	NAU REVOLVING FUND (ASPEE) NAVSARI	4.91	0.00	4.91	2.68

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	Ph. D. (Hort.)	23/08/2019	13	Veg. Science	6503-3
2.	Dr. T. R. Ahlawat	Professor	Ph. D. (Hort.)	23/08/2019	20	Fruit Science	12237
3.	Dr. R. V. Tank	Associate Professor	Ph. D. (Hort.)	23/01/2012	25	Fruit Science	11237
4.	Dr. B. M. Tandel	Associate Professor	Ph. D. (Hort.)	11/08/2015	15	Fruit Science	6503-3
5.	Dr. M. M. Patel	Associate Professor	Ph. D. (Hort.)	01/10/2012	32	Fruit Science	12237
6.	Dr. Y. N. Tandel	Associate Professor	Ph. D. (Hort.)	23/08/2019	12	Fruit Science	5014/03
7.	Dr. S. Y. Patel	Associate Professor	Ph. D. (Hort.)	23/08/2019	26	Veg. Science	6503-03
8.	Dr. Pankaj Bhalerao	Assistant Professor	Ph. D. (Hort.)	02/03/2013	08	Fruit Science	2044
9.	Dr. A. K. Pandey	Assistant Professor	Ph. D. (Hort.)	19/08/2015	06	Fruit Science	12237
10.	Mrs. Dixita Prajapati	Assistant Professor	M.Sc. (Horti.)	24/08/2015	06	Fruit Science	6503-03
11.	Mr. K. A. Patel	Assistant Professor	M.Sc. (FLA)	30/07/2009	35	Fruit Science	11237
12.	Dr. Tulsi D. Gurjar	Assistant Professor	Ph. D. (Horti.)	29/08/2019	03	Fruit Science	12237
13.	Mrs. Bhoomika A. Patel	Assistant Professor	M. Sc.	11/08/2015	6	Fruit Science	12237

4.1.2 Academic Activities of Department

List of Courses offered by the Department (As Per 5th Deans' Committee)

B.Sc. (Hons.) Horticulture						
S.N.	Sem.	Course Code	Title	Credit hrs.	Faculty	
1.	I	FRT.1.1	Fundamentals of Horticulture	3 (2+1)	Dr. Y.N. Tandel	
2.	II	FRT.2.2	Plant Propagation and Nursery Management	2 (1+1)	Dr. Tulsi D. Gurjar	
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. Bhoomika A. Patel	
5.	IV	FRT.4.5	Plantation Crops	3 (2+1)	Dr. M.M. Patel	

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. M.M. Patel
8.	V	FRT.5.8	Dry land Horticulture	2 (1+1)	Dr. A.K. Pandey
Sub-Total				20 (12+8)	
STUDENT READY-I: Experiential Learning Programme					
9.	VII	HWE 7.2	Commercial Production of Horticultural Planting Materials	10 (0+10)	
		HWE 7.2.1	Propagation and Production of Propagules	6 (0+6)	Dr. N. K. Patel Dr. Tulsi D. Gurjar
		HWE 7.2.2	Packaging and Marketing of planting materials	4 (0+4)	Dr. Tulsi D. Gurjar Dr. N. K. Patel
STUDENT READY-II: Rural Horticultural Work Experience					
10.	VIII	HWE 8.3 (RHWE)	University Farms (AAU) and Visit to Horticulture Based Industries of Middle Gujarat Region	4 (0+4)	Dr. Tulsi D. Gurjar Mrs. Bhoomika A. Patel
Sub-Total Student Ready				14 (0+14)	
Total				34 (12+22)	

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

M.Sc. Horticulture-Fruit Science					
S.N.	Sem.	Course Code	Title	Credit hrs.	Faculty
1.	Odd	FSC 501*	Tropical and Dry Land Fruit Production	3(2+1)	Dr. Y.N. Tandel
2.	Even	FSC-502*	Subtropical and Temperate Fruit Production	3(2+1)	Dr. R.V. Tank
3.	Odd	FSC 503*	Biodiversity and Conservation of Fruit Crops	3(2+1)	Dr. B.R. Parmar/ Dr. A .K. Pandey
4.	Even	FSC-504	Canopy Management in Fruit Crops	2(1+1)	Dr. B. M. Tandel
5.	Odd	FSC 505	Propagation and Nursery Management for Fruit Crops	3(2+1)	Dr. B. M. Tandel
6.	Even	FSC-506*	Breeding of Fruit Crops	3(2+1)	T. R. Ahlawat
7.	Odd	FSC 507	Post Harvest Technology For Fruit Crops	3(2+1)	Dr. A. K. Pandey
8.	Even	FSC-508	Growth and Development of Horticultural Crops	3(2+1)	Dr. A.K. Pandey
9.	Odd	FSC 509	Biotechnology of Horticultural Crops	3(2+1)	Dr. C.V. Kapadiya
10.	Even	FSC-510	Organic Horticulture	2(1+1)	Dr. P.K. Dubey/ A. R. Kaswala

11.	Odd	FSC 511	Protected Fruit Culture	3(2+1)	Dr. J. H. Gohil
12.	Odd	FSC 513	Climate Management in Horticultural Production	1(1+0)	Dr. S.V. Vijol
13.	Odd	FSC 591	Master's Seminar	1(1+0)	Concerned Major Guide
14.	Even/ Odd	FSC 599	Master's Research	20(0+20)	Concerned Major Guide
*Compulsory				Total	64 (33+31)

Ph.D. Horticulture- Fruit Science

S.N.	Sem	Course Code	Title	Credit hrs.	Faculty
1.	Odd	FSC 601**	Advances in breeding of fruit crops	3(2+1)	Rehana Niyaria
2.	Even	FSC-602**	Advances in production of fruit crops	3(2+1)	B. M. Tandel
3.	Odd	FSC 603	Advances in growth regulation of fruit crops	3(2+1)	R. V. Tank
4.	Even	FSC-604	Genomics and bioinformatics in horticulture	3(2+1)	C.V. Kapadia
5.	Odd	FSC 605	Biotic and abiotic stress management in horticultural crops	3(2+1)	T. R. Ahlawat
6.	Even	FSC-606	Systematics of fruit crops	3(2+1)	Y. N. Tandel
7.	Odd	FSC 691	Doctoral Seminar I	1(1+0)	Concerned teacher
8.	Even	FSC 692	Doctoral Seminar II	1(1+0)	Concerned teacher
9.	Even /Odd	FSC 699	Doctoral Research	45(0+45)	Concerned teacher
**Compulsory				Total	65 (14+51)

PG students enrolment in Masters' Programme

S. N.	Name of Student	Registration No.	Title of the research programme	Major Guide
1.	Aniket Kumar Sahu (ICAR)	2020220001	Effect of defoliation and storage of scion stick on growth and survival of wedge grafting of guava var. Lalit	Dr. B.M. Tandel
2.	Barad Shraddhaben Vajubhai	2020220002	Effect of pre-soaking treatments on germination and growth of phalsa	Dr. S. S. Gaikwad
3.	Dodiya Hirenkumar Pratapsinh	2020220010	Biochemical and nutritional characterization of fruit of different sapota (<i>Manilkara zapota</i> L.) varieties under South Gujarat condition	Dr. A.K. Pandey
4.	Gamit Jimishkumar Jivanbhai	2020220011	-	Dr. T.R. Ahlawat

5.	Kachhadiya Nirbhay Sureshbhai	2020220013	Effect of seed storage on germination and seedlings growth of phalsa (<i>Grewia subinaequalis</i> L.)	Dr. C. R. Patel
6.	Manasa Shripati Bhat	2020220016	Integrated nutrient management in turmeric (<i>Curcuma longa</i> L.)	Dr. P.P. Bhalerao
7.	Pansuriya Rahuul Rameshbhai	2020220020	Response of foliar spray of nutrients on fruiting, yield and quality of Guava (<i>Psidium guajava</i> L.)	Dr. B.M. Tandel
8.	Rathva Hemangini Mahendrabhai	2020220027	Studies on characterization of different Sapota varieties using molecular markers	Dr. A.K. Pandey
9.	Ravat Bhoomikaben Vinodbhai	2020220028	-	Dr. C.R. Patel
10.	Sushravya M.K (ICAR)	2020220030	Effect of fruit bagging on yield and quality of guava	Dr. R.V. Tank
11.	Vagh Nikul Sadulbhai	2020220032	Effect of plant growth regulators on yield and alkaloid content of kalmegh (<i>Andrographis paniculata</i> Burn F. Ex. Nees)	Dr. M.M. Patel

PG students enrolment in Doctoral Programme

S. N.	Name of Student	Registration No.	Title of the research programme	Major Guide
1.	Ganvit Swatikumari Arjunbhai (In Service)	1020220005	-	Dr. R.V. Tank
2.	Parekh Bhamini V. (In Service)	1020220008	Variability studies in banana (<i>Musa spp.</i>) through morphological, biochemical and molecular characterization	Dr. T.R. Ahlawat
3.	Patel Arpitaben Maheshbhai	1020220009	Effect of saline water and spray of 28-homobrassinolide on growth of polyembryonic mango (<i>Mangifera indica</i> L.)	Dr. C.R. Patel
4.	Patel Jollyben Jayeshbhai	1020220010	Impact of weather parameters on flowering phenology and fruiting behaviour of exotic mango cultivars under South Gujarat agro-climatic condition	Dr. D.K. Sharma

RAC Meetings conducted by the Department

Sr. No.	Meeting Details			Proceeding No. and date	Remarks
	No.	Date of meeting	Venue		
1.	12 th RAC	17/12/2020	Conference Hall, ACHF	No. ACHF/Fruit. Sci./12 th RAC Proceeding II/ 52/2021 dated 11/02/2021	Presentation of New Technical Programmes of 01 Ph.D. and 03 M.Sc. students
2.	13 th RAC	12/02/2021	Conference Hall, ACHF	No. ACHF/Fruit. Sci./13 th RAC Proceeding I/82/2021 dated 26/02/2021	Presentation of New Technical Programmes of 03 Ph. D students

**4.1.3 Research Activities of the Department
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. Y.N. Tandel
3.	Establishment of Department of Horticulture	6503/03	-	Non Plan Scheme	Dr. V.K. Parmar
4.	All India Coordinated Research Project on Palms	329/2044	2008-09	ICAR	Dr. P.P. Bhalerao
5.	Mission for Integrated Development of Horticulture	329/18930-1	2010-11	Other Agency	Dr. P.P. Bhalerao
6.	Evaluate the forchlorfenuron 0.1 LIQ (CPPU) for fruit set, retention and post harvest quality of mango	18208	2019-20	Other Agency (Omega Fine Chemicals Thane)	Dr. V.K. Parmar
7.	Development of DUS Test Guidelines for Sapota (<i>Achras zapota</i> L.)	329/18217	2020	PPV& FRA, Gol, New Delhi.	Dr. A.K. Pandey

Objectives of the schemes
1. Strengthening Research Activities of Fruit Crops (B.H. 329/12025)

- 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)**
- 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)**
- 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 reaserch.
- 4. All India Coordinated Research Project on Palms (B.H. 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.
- 5. Mission for Integrated Development of Horticulture (B.H. 329/18930-1)**
- Seed production programme of turmeric crop.
 - Selling of produced seeds to the farmers/organization/institute etc.
- 6. Evaluate the forchlorfenuron 0.1 LIQ (CPPU) for fruit set, retention and post-harvest quality of mango**
- To check the effect of forchlorfenuron 0.1 % LIQ. (CPPU) on mango
- 7. Development of DUS test guidelines for sapota (*Achras zapota* L.) (B.H.329/18217)**
- Development of DUS test guidelines for sapota

Research recommendations

S.N.	Title of Experiment and Recommendation	Name of PI /Co-PI/ Associate
1.	Integrated nutrient management in sapota cv. Kalipatti The farmers of South Gujarat having adult tree of sapota orchard cv. Kalipatti are recommended to apply 50 kg farm yard manure and 80 per cent recommended dose of chemical fertilizer (800-400-400 NPK g/tree in three split of NPK i. e.	Dr. B.M. Tandel, Dr. S.J. Patil, Dr. Y.N. Tandel, Dr. D.P. Patel

	200:400:100 g/tree in June, 400:00:200 g/tree in August and 200:00:100 g /tree in October) along with soil application of bio fertilizers (Azatobactor, phosphorus solubilizing bacteria and potash mobilizing bacteria) @ 50 ml/tree of each in June, October and February month for getting higher yield, TSS of fruit and net return (2020).	
2.	Effect of graded doses of paclobutrazol on flowering, yield and quality of mango cv. Alphonso The farmers of South Gujarat having more than 35 years old mango orchard of Alphonso variety are recommended to apply paclobutrazol through soil drenching during 1 st fortnight of August in the ratio of 10:5:10:5 g <i>a.i./tree</i> in 1 st , 2 nd , 3 rd and 4 th year, respectively along with 150 % RDF (150 kg FYM and 1125:240:1125g NPK per tree) for getting early flowering, higher fruit yield and net return (2020).	Dr. Y.N. Tandel, Dr. B.N. Patel, Dr. N. L. Patel
3.	Effect of foliar application of GA₃ and CPPU on yield and quality of mango (<i>Mangifera indica</i> L.) cv. Kesar The farmers of South Gujarat Heavy Rainfall Zone growing adult trees of mango cv. Kesar in high density plantation (5 m x 5 m) are advised to spray GA ₃ 100 mg l ⁻¹ 15 days after marble stage to increase the yield and quality of fruits along with higher net realization (2020).	Dr. S.J. Patil, Dr. B.M. Tandel, Dr. Y.N. Tandel
4.	Effect of post flowering spray of chemicals on fruit retention and yield of mango cv. Kesar The farmers of South Gujarat Heavy Rainfall Zone (AES-III) having mango orchard of Kesar variety are advised to spray 20 mg /l NAA + 2% Urea or 2% novel organic liquid nutrient at pea and marble stage to increase the yield and improve quality of fruits along with higher net realization (2020).	Dr. S.J. Patil, Dr. Y.N. Tandel, Dr. B.M. Tandel
5.	Evaluation of bio-agent, fungicides and physical method on germination and survival of mango (<i>Mangifera indica</i> L.) stone Scientists working on seed soaking treatment to mango stone are informed that there was no any significant effect of bio-agents, fungicides and physical method on stone germination and survival of mango seedlings in polybag and raised bed conditions. However, stone soaking treatment with <i>Pseudomonas fluorescens</i> @ 10 ml/lit increased stone germination, growth characters and survival percentage of mango seedlings.	Dr. B.M. Tandel, Dr. S.J. Patil, Dr. Y.N. Tandel, Dr. P.R. Patel, Dr. H.V. Pandya

Approved New Technical Programmes

S.N.	Title of NTP	Name of PI/Co-PI/Associate
1.	Effect of weather parameters on flowering and fruiting of HDP mango under South Gujarat condition.	PI: Dr.Tulsi D. Gurjar Co-PIs: Dr. B.M. Tandel & Dr. V. K. Parmar Associate: Mr. Kirti Bardhan & Dr. B.M. Mote

2.	Phytochemical screening and determination of antioxidant activity of different mango cultivars	PI: Dr.Tulsi D. Gurjar Co-PI: Dr. B.M. Tandel Associate: Dr. J.M. Mayani & Dr. C.V. Kapadia
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4.1.4 Extension Activities of Department
Diagnostic visits at farmers' field

S.N.	Diagnostic Team	Name of Farmer and Address	Date
1.	Dr. Y.N. Tandel	Harishbhai Patel, Village- Undach, Ta. Gandevi, Dist- Navsari	03.06.2020
2.	Dr. PP. Bhalerao	Prafulbhai Patel, Village-Rabda (Valsad)	05.11.2020
3.	Dr. Y.N. Tandel	Tark Parbatbhai Dangasiya, Village-Aethan, Ta. Jalalpore, Dist- Navsari	03.12.2020
4.	Dr. Y.N. Tandel	Juber Ahmad Sheikh, Village- Machhad, Ta. Jalalpore, Dist- Navsari	09.12.2020
5.	Dr. Y.N. Tandel	Nazim Shaikh, Village- Machhad, Ta. Jalalpore, Dist- Navsari	15.12.2020



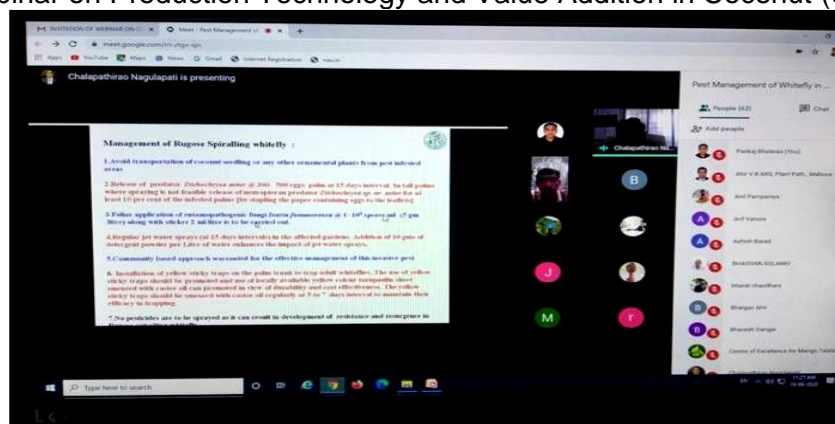
Diagnostic visit by Dr. PP. Bhalerao to the field of Prafulbhai Patel Vill. Rabda (Valsad) on November 05, 2020

Khedut Shibir/Training organized by department

S.N.	Date	Place	Name of activity	Name of Faculty
1.	19.08.2020	Limzar (Vansda)	Training on Care and management of mango graft preparation	Dr. B.M. Tandel Dr. Tulsi Gurjar
2.	08.09.2020	Online webinar	Training on Production Technology and Value Addition in Coconut	Dr. P.P. Bhalerao
3.	19.09.2020	Online webinar	Training on Identification and integrated management practices of Rugose Spiralling Whitefly (RSW) in coconut	Dr. P.P. Bhalerao



Online webinar on Production Technology and Value Addition in Coconut (08.09.2020)



Online webinar on Identification and integrated management practices of Rugose Spiralling Whitefly (RSW) in coconut (19.09.2020)

4.1.5 Infrastructure or Facilities created

S.N.	Infrastructure or facilities created	Area
1.	Water harvesting structure	50 sq.mt. (Capacity of 1 lakh litres)

4.1.6 Production of planting materials

S.N.	Planting material	Crop and Cultivar	Quantity
1.	Seed nuts	Coconut : DxT-F2	6000 nuts
2.	Planting material	Turmeric: GNT-1, GNT-2 and Sugandham	7 t
3.	Planting material	EFY: Gajendra and Local	3 t
4.	Planting material	Tannia: Local	1 t
5.	Mango grafts	Mango: Kesar, Totapari, Sonpari, Rajapuri, Dashehari, Amrapali, Ratna	6698 Nos.
6.	Coconut seedlings	Coconut: (DxT-F2)	1579 Nos.
7.	Sapota graft	Sapota : Kalipatti	740 Nos.
8.	Rayan seedlings	Rayan : Local	800 Nos.
9.	Guava Seedlings	Guava: Local	450 Nos.
10.	Jamun grafts	Jamun: Goma Priyanka	15 Nos.

11.	Citrus seedlings	Citrus: Kagdi Lime	750 Nos.
12.	Dragon fruit cuttings	Dragon fruit: Red and White flesh	8555 Nos.
13.	Vegetable seedlings	Brinjal, Tomato, Onion, Cabbage etc.	261750 Nos.

Planting Material Production Plots



Tannia



EFY



Turmeric



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	BH
1.	Dr. S. N. Saravaiya	I/c Professor	Ph.D. (Horticulture)	15/06/2010	32	Vegetable Science	12237
2.	Dr. N. B. Patel	Associate Professor	Ph.D. (Horticulture)	15/06/2010	29	Vegetable Science	12017
3.	Dr. Rehana Niyaria	Associate Professor	Ph.D. (PBG)	23/08/2019	13.6	Pl. Breeding & Genetics	12014-5
4.	Dr. N.K. Patel	Assistant Professor	Ph.D. (Hort.) Veg. Sci.	11/02/2009	12	Vegetable Science	12237
5.	Dr. A.I. Patel	Assistant Professor	Ph.D. (PBG)	14/06/2010	11	Pl. Breeding & Genetics	12237
6.	Dr. J.M. Vashi	Assistant Professor	M.Sc. (Veg. Sci.)	28/10/2010	10.5	Vegetable Science	12237
7.	Dr. Sanjeev Kumar	Assistant Professor	Ph.D. (Veg. Sci.)	28/01/2013	8.0	Vegetable Science	12017
8.	Ms. Hetal R. Rathod	Assistant Professor	M.Sc. (Veg. Sci.)	11/08/2015	5.0	Vegetable Science	12237
9.	Dr. B.N. Chaudhari	Assistant Professor	Ph.D. (Hort.) Veg. Sci.	17/11/2016	3	Vegetable Science	12021
10.	Dr. Himani B. Patel	Assistant Horticulturist	Ph.D. (Veg. Sci.)	26/08/2019	1.5	Vegetable Science	2006-3

4.2.2 Academic Activities of Department

List of Courses Offered By the Department (As Per 5th Deans' Committee)

B. Sc. (Hons.) Horticulture						
S.N.	Sem.	Course Code	Title	Credit hrs.	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. Sanjeev Kumar	
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. B.N Chaudhari	
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	3(2+1)	Dr. N.K. Patel	

			Vegetable, Tuber and Spice Crops		
8.	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. 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 Horticultural Planting Materials	10 (0+10)	
		HWE: 7.2.1	Propagation and Production 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 8.6	University Farms (NAU) and Private Horticultural field visit of South Gujarat Region	4(0+4)	Dr. J. M. Vashi Dr. Himani B. Patel Ms. Hetal R. Rathod
11.	VIII	HWE. 8.2 (RHWE)	University farms (JAU) and Private Horticultural Field visit of Saurashtra region	4(0+4)	Dr. J. M. Vashi Dr. B. N. Chaudhari Dr. Himani B. Patel
Total				47 (12+35)	

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

M. Sc. (Horticulture): Vegetable Science					
S.N.	Sem.	Course Code	Title	Credit hrs.	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. S.N. Saravaiya
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. J.M. Vashi
8.	Even	VSC 508	Organic Vegetable Production Technology	2(1+1)	Dr. Sanjeev Kumar (Th.) Dr. A. R. Kaswala (P)
9.	Odd	VSC 509	Fundamentals of Processing of Vegetables	3(2+1)	Dr. J.M Mayani

10.	Even/ Odd	VSC 591	Master's Seminar	1(1+0)	Major Guide
11.	Even/ Odd	VSC 599	Master's Research	20(0+20)	Major Guide
*Compulsory				Total	45 (16+29)

:Ph. D. (Horticulture): Vegetable Science

Sr. No.	Sem.	Course Code	Title of Course	Credit hrs	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. S.N. Saravaiya
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
**Compulsory				Total	64 (13+51)

PG students enrollment in Masters' Programme

S.N.	Name of Student	Registration No.	Title of the research programme	Major Guide
1.	Boomika H M	2020220004	Effect of different colour shade nets on biomass yield and quality of brinjal and tomato seedlings	Dr. K. D. Desai
2.	Khasdar Zakiyabanu Farukbhai	2020220015	Genetic architecture for yield and it's contributing traits in brinjal (<i>Solanum melongena</i> L.)	Dr. N.B. Patel
3.	Mokariya Yagneshkumar Vasrambhai	2020220018	Effect of differentially glazed low poly tunnel and sowing time on growth, yield and quality of muskmelon	Dr. N.B. Patel
4.	Patel Divyaben Ramanbhai	2020220021	Performance of different bio-stimulants on	Dr. S.Y. Patel

			vegetable cowpea cv. AVCP 1	
5.	Patel Nihar Ashokbhai	2020220022	"Effect of different type of mulches on growth, yield and quality of cauliflower var. Pusa Purple Cauliflower-1"	Dr. S.S. Masaye
6.	Prajapati Nidhi Manojbhai	2020220024	Nutrient management in okra cv. GAO-5	Dr. S.S. Masaye
7.	Sojitra Gopi Arjanbhai	2020220029	"Effect of different soil-less media and light sources on growth, yield and quality of green garlic (<i>Allium sativum</i> L.)"	Dr. S.Y. Patel

PG students enrollment in Doctoral Programme

Sr. No.	Name of Student	Registration No.	Title of the research programme	Major Guide
1.	Champaneri Dushyant Dipakkumar	1020220001	Optimization of irrigation water requirement in tomato using soil moisture sensor, ET and irrigation model	Dr. Sanjeev Kumar
2.	Chaudhari Varshaben Ishwarbhai	1020220003	-	Dr. V.K. Parmar
3.	Patel Priyankakumari Naradbhai (In -Service)	1020220011	Effect of Integrated Nutrient Management and Spacing on the yield performance of baby corn (<i>Zea mays</i> L.) under South Gujarat Condition	Dr. D.R. Bhanderi

RAC Meetings conducted by the Department

S. N.	Meeting Details			Proceeding No. and date	Remarks
	No.	Date of meeting	Venue		
1.	12 th RAC Part – III & IV	6/8/2020 & 4/12/2020	D1 & D2 Hall ACHF, NAU (Online/ Offline)	No. ACHF/ Veg. Sci./12 th RAC Proceeding IV/10422/2020 dated 13/8/2020 & No. ACHF/ Veg. Sci./12 th RAC Proceeding IV/173/2020 dated 7/12/2020	7 Ph. D. and 12 M. Sc. students presented their outline of new technical research programme
2.	13 th RAC	12/2/2021	Conference Hall ACHF, NAU (Offline)	No. ACHF/ Veg. Sci./13 th RAC (Ph. D.)/ Proc./188/2021 Dt. 15/2/2021	2 Ph. D. students presented their outline of technical research programme

Monitoring of PG experiments by the Departments

S. N.	Date of Monitoring	Place	Proceedings No. and date	Remarks
1.	12.05.2020	RHRS, Vegetable Research Farm, ACHF, NAU	No. ACHF/ Veg. Sci./PG expt. monitoring/ Proceeding / 6680/2020 Dt. 13/5/2020	4 Ph. D. and 7 M. Sc. Students Experiments were monitored under the chairmanship of Dean of this College.
2.	18.12.2020	RHRS, Vegetable Research Farm, ACHF, NAU	No. ACHF/ Veg. Sci./PG expt. monitoring/ Proceeding / 16685/2020 Dt. 18/12/2020	1 Ph. D. and 2 M. Sc. Students Experiments were monitored under the chairmanship of Dean of this College.
3.	18.02.2021	RHRS, Vegetable Research Farm, ACHF, NAU	No. ACHF/ Veg. Sci./PG expt. monitoring/ Proceeding / 2718/2021 Dt. 18/2/2021	6 Ph. D and 1 M. Sc. Students Experiments were monitored under the chairmanship of Dean of this College.

Glimpses of Monitoring of PG students' trials



Response of vegetable cowpea [*Vigna unguiculata* (L.) Walp.] to foliar application of PGRs



Response of vegetable cowpea to different bio stimulants



Effect of molybdenum and bio fertilizer on growth and yield of cowpea cv. AVCP-1



Response of greenhouse cucumber to regulated irrigation and mulching



Seedling invigouration by halo priming for salt tolerance in bell pepper (*Capsicum annum L.*)



Studies on heterosis, combining ability and phenotypic stability in brinjal



“Effect of planting dates and spacing on growth, yield and quality of pumpkin cv. Arka Suryamukhi under south Gujarat condition



Studies on heterosis, combining ability and phenotypic stability in brinjal (*Solanum melongena L.*)

Monitoring of Departmental trials

S. N.	Date of Monitoring	Place	Proceedings No. and date	Remarks
1.	21.09.2020	RHRS, Vegetable Research Farm, ACHF, NAU	No. ACHF/ Veg. Sci./Dept. expt. monitoring/ Proceeding / 13010/2020 Dt. 29/9/2020	Total 44 Experiments were monitored under the chairmanship of Dean of this College.
2.	25.11.2020	RHRS, Vegetable Research Farm, ACHF, NAU	No. ACHF/ Veg. Sci./Dept. expt. monitoring/ Proceeding / 172/2020 Dt. 2/12/2020	Total 35 Experiments were monitored under the chairmanship of Dean of this College.
3.	28.01.2021	RHRS, Vegetable Research Farm, ACHF, NAU	No. ACHF/ Veg. Sci./Dept. expt. monitoring/ Proceeding / 194/2021 Dt. 19/3/2021	Total 51 Experiments were monitored under the chairmanship of Dean of this College.

Glimpses of Monitoring of Departmental trials



Field View of greater yam



Field View of Brinjal



Field View of Tannia



Field View of greenhouse cucumber

Review Meetings of the Department

S. N.	Date of Meeting	Place	Proceedings No. and date	Remarks
1.	07.07.2020	RHRS, ACHF, NAU	No. ACHF/ Veg. Sci./ Proceeding /1 st Review meeting/9607/2020 Dt. 22/7/2020	It was chaired by Dean of this College & Co chaired by ADR Horticulture
2.	07.10.2020	RHRS, ACHF, NAU	No. ACHF/ Veg. Sci./ Proceeding /2 nd Review meeting/14431/2020 Dt. 29/10/2020	It was chaired by Dean of this College & Co chaired by ADR Horticulture
3.	22.01.2021	RHRS, ACHF, NAU	No. ACHF/ Veg. Sci./ Proceeding /3 rd Review meeting/5818/2021 Dt. 30/3/2021	It was chaired by Dean of this College & Co chaired by ADR Horticulture

Glimpses of Review Meetings



4.2.3 Research Activities of the Department Research Schemes in Operation

Sr. No.	Name of Research Project	Budget Head No.	Year of Commencement	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. B.N. Chaudhari & 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 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

1. Artificial oscillation for increasing fruit set and performance of tomato in polyhouse under South Gujarat conditions

Farmers cultivating tomato in naturally ventilated polyhouse are recommended to vibrate tomato truss with electric pollinator on every 3rd day starting from the day of first flowering for 10 seconds during morning hours between 7.30 am to 9.00 am for better fruit set, higher yield and net returns.



2. Standardize the fertilizer dose of drumstick (*Moringa spp.*)

The farmers of south Gujarat agro climatic zone growing drumstick are recommended to apply 100-75-50 g NKP (217.3 g NCU - 468.7 g SSP - 83.3 g MOP) per tree to obtain higher yield and income. Nitrogen (Neem Coated Urea) apply in four equal splits, first apply at pit preparation (common application of 8 kg FYM enrich with (*Azotobacter*+ *PSB*+ *KMB* (each @ 2ml) in a pit), along with half dose phosphorus (Single Super Phosphate) and potash (Muriate of Potash), second fertilizer application after 30 days after planting; third split application was given after six month interval after pruning along with half dose of phosphorus and potash and fourth split application was given 30 days after pruning.

Application time	Fertilizer	Quantity
First	25 g N ₂ ; 37.5 g P ₂ O ₅ ; 25 g K ₂ O	54.30 g NCU + 234.35 g SSP + 41.65 g MOP
Second	25 g N ₂	54.30 g NCU
Third	25 g N ₂ ; 37.5 g P ₂ O ₅ ; 25 g K ₂ O	54.30 g NCU + 234.35 g SSP + 41.65 g MOP
Forth	25 g N ₂	54.30 g NCU

Note: Common application of 8 kg FYM enrich with (*Azotobacter*+ *PSB*+ *KMB* (each @ 2ml) in a pit



3. Effect of IBA and number of nodes on stem cutting on propagation of little gourd

The farmers/nurserymen of south Gujarat agro climatic zone are recommended to multiplication of little gourd are recommendation to select one year old little gourd vine cutting with two nodes dipped in 80mg/l IBA solution for 30 minute and put in growing media Soil: FYM: Sand (1:1:1) increases sprouting percentage, vine length, vine diameter, root length, root diameters and survival percentage of little gourd cutting.



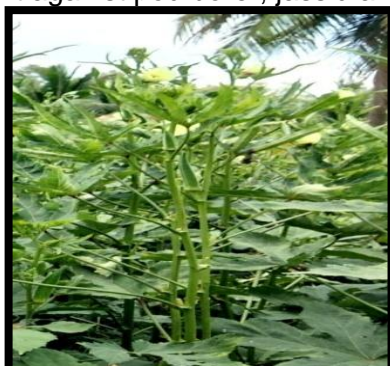
4. Response of okra to foliar application of Novel Organic Liquid Nutrients and Micronutrients

The okra growing farmers of South Gujarat Agro-Climatic Zone are recommended for foliar application of 1.5 % Novel Organic Liquid Nutrients at 30, 45 & 60 DAS to obtained higher yield of okra.



5. Proposal for release of okra variety NOL-17-05 (GNO-1:Purna Rakshak)

Okra growing farmers of south Gujarat region are advised for cultivation of okra variety NOL-17-05 (GNO-1: Purna Rakshak). The average fruit yield of okra variety NOL-17-05 (GNO-1: Purna Rakshak) 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, Pusa Sawani 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 resistant against YVMV, Powdery mildew, ELCV disease as well as moderately resistant against pod borer, jassid and whitefly.



Approved New Technical Programmes

S.N.	Title of NTP	Name of PI/Co-PI/Associate
1.	Response of greenhouse cucumber to regulated irrigation and mulching	Dr. Sanjeev Kumar/ Dr. N.B. Patel/ Dr. A. P. Italiya/ Dr. P.K. Shrivastava
2.	Performance of yard long bean [<i>Vigna unguiculata</i> (L.) Walp. sub sp. <i>Sesquipedalis</i> (L.) Verdc.] in varying levels of plant density under NVPH	Dr. N.B. Patel/ Dr. Sanjeev Kumar/
3.	Effect of pre-harvest spray coating of <i>Aloe vera</i> pulp aqueous extract and packaging on post-harvest quality of <i>Amaranthus microgreens</i>	Dr. S.N. Saravaiya/ Dr. Sanjeev Kumar/ Dr. Dev Raj/ Dr. Susheel Singh/ Dr. H.G. Suthar/ Dr. N.S. Thakur
4.	Fertilizer best management practices in sweet potato	Dr. Himani B. Patel/ Dr. J. M.

		Vashi/ Dr. N. K. Patel
5.	Management of storage rot in elephant foot yam corms	Dr. Himani B. Patel/ Prof. G. B. Desai/ Dr. S. N. Saravaiya
6.	IET on purple flesh greater yam	Dr. Himani B. Patel/ Dr. A. I. Patel/ Dr. N. B. Patel

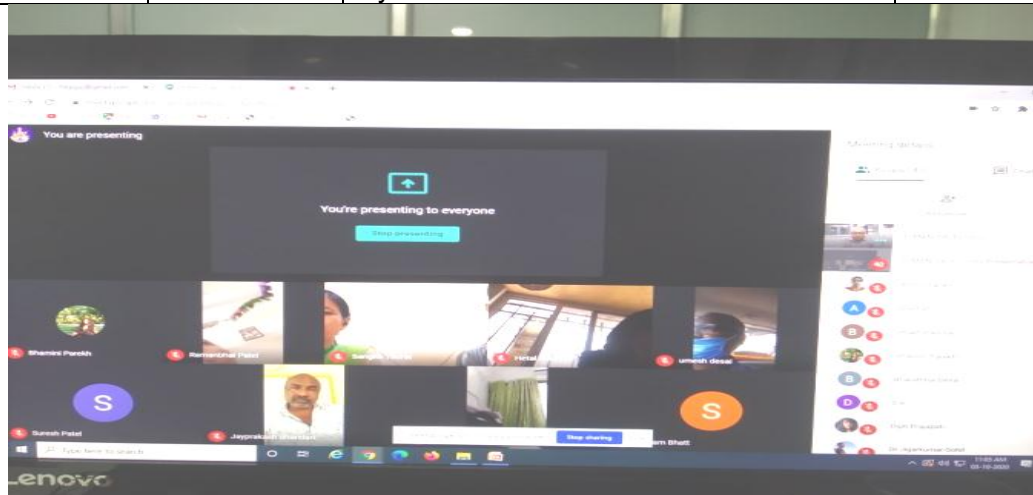
4.2.4 Extension Activities of Department
Diagnostic visit at farmer's field

S.N.	Diagnostic Team	Name of Farmer and Address	Date
1.	Dr. P.R. Patel, Dr. Viral Prajapati, Dr. Snehal Patel and Prof. G. B. Desai	Mr. Mayurbhai Patel, Village Sarbhon, Ta: Bardoli, Dist: Surat	05.10.2020



Khedut Shibir/Training organized by department

S.N.	Date	Place	Name of activity	Name of Faculty
1.	03.10.2020	Online mode	Online webinar organized by AICRPTC, NAU, Navsari on "Scientific Farming System of Tannia and Sweet Potato"	Dr. Himani B. Patel



4.2.5 Infrastructure or Facilities available/created

Department

S.N.	Infrastructure or Facilities available	Area/No.
1.	Well equipped laboratories	02
2.	Hot Air Oven	01
3.	Temperature & Humidity Data Logger	02
4.	Digital Vernier Caliper	03
5.	BOD Incubator	01
6.	Electronic Microscope	10
7.	Canon copier	01
8.	Wi-Fi facility	01
9.	Naturally Ventilated Polyhouse and Net House for EPL activities	01 +01
10.	Leaf Area Meter	01
11.	Fruit Firmness Tester	01
12.	pH tester (Portable)	01
13.	EC Meter	01
14.	Pyranometer	01
15.	Digital Vernier Caliper	02
16.	Vernier Caliper	01
17.	GPS instrument	01
18.	Multimedia projector	01
19.	Laptop Lenovo	01
20.	Laminar airflow	01
21.	Vertical Autoclave	01

S.N.	Infrastructure or Facilities created	Area/No.
1.	Seed divider soil type sub divider made of stainless steel	03
2.	Illuminated purity work board, made of wood, duly laminated, Size: 50 x 30 x 15 cm	05
3.	Working Table U Shape	01
4.	Nikon 24 MP Still DSLR Full Frame format (Camera)	01
5.	Lenova intel core i5 10400 16GB/1000 GB HDD/ Windows 10 Professional (Desktop Computer)	01
6.	Horiba Automatic Temperature correction water quality meter analyzer (pH meter)	01
7.	Horiba Automatic Temperature correction water quality meter analyzer (EC meter)	01
8.	Horiba Automatic Temperature correction water quality meter analyzer (Pocket EC meter)	01
9.	Sample Pan made of Aluminium Size :30x 40x 5 cm	01
10.	Globuls Long Throw (Above 2.5) Multimedia Projector	01
11.	Ajayoptik Stereo Microscope with Achromatic lens with zoom ratio 6.1	01
12.	9x5 Motorized Projector Screen	01
13.	Esico photo conductive cell sodium, potassium , calcium, and lithium flame photometer	01
14.	Celfrost Double Door 580-610 liters Laboratory Refrigerator	01

15.	Vertical Autoclave	01
16.	Creative lab world 2500 watt 101-150 liters Hot Air oven	01
17.	Chetak RO system fully Automatic with Autocut off RO+UV+ Alkaline	01
18.	Case Interio computer cum printer table	01

Farm

S.N.	Infrastructure or Facilities available	Area/No.
1.	Experimental Area	5.9 ha
2.	Naturally Ventilated Polyhouses	03 Nos.
3.	Naturally Ventilated Polyhouse (ELP Activity)	01 No.
4.	Net House (ELP Activity)	01 No.
5.	Tuber storage Godown	01 No.
6.	Borewell	01 No.
7.		

S.N.	Infrastructure or Facilities created	Area/No.
1.	Tractor Massey ferguson HP 42	1

4.2.6 Production of Planting Materials

S.N.	Planting material	Crop and Cultivar	Quantity
1.	Seeds	Brinjal: GNRB-1	6.21 kg
2.	Seeds	Brinjal: Surati Ravaiya	3.050 kg
3.	Seeds	Tomato: GT-7	0.180 kg
4.	Seeds	Tomato: GT-2	0.050 kg
5.	Saplings	Little Gourd: GNLG-1	8662 Nos.
6.	Saplings	Pointed Gourd: GNPG-1	Female 2063 Nos. and male 371 Nos.
7.	Corm	Elephant foot yam:Gajendra	2200 kg
8.	Tuber	Greater yam: Hemlata	605 kg
9.	Vine	Sweet potato: C-71	3080 cuttings
10.	Vine	Sweet potato: Bhu Kanti	10175 cuttings
11.	Corm & Cormel	Tannia: Local	326 kg
12.	Plant	Grafted Brinjal	850 Nos.
13.	Seedlings	Cabbage	7900 Nos.
14.	Seedlings	Chilli / Kapsicum	3000 Nos.

4.3 Department of Floriculture and Landscape Architecture

4.3.1 Faculty Profile

S. N.	Name	Designation	Qualification	Date of Joining (Present Post)	Length of Service (Yrs.)	Specialization	BH
1.	Dr. Alka Singh	Professor & Head	Ph. D. (Horti.)	23.09.2019	14.5	Floriculture & Landscape Architecture	12237
2.	Dr. S.L. Chawla	Associate Professor	Ph.D. (Ag.) Horti.	1/10/2012	13	Floriculture & Landscape Architecture	12237
3.	Dr. H. P. Shah	Assistant Professor	Ph.D. (Horti.)	14/06/2010	11	Floriculture & Landscape Architecture	12237
4.	Dr. M. A. Patel	Assistant Professor	Ph.D. (Horti.)	15/06/2010	11	Floriculture & Landscape Architecture	12237
5.	Dr. Dipal S. Bhatt	Assistant Professor	Ph.D. Hort. (Flori.)	11/01/2013	08	Floriculture & Landscape Architecture	12237
6.	Dr. Sudha Patil	Assistant Professor	Ph.D. Hort. (Flori.)	17/01/2013	08	Floriculture & Landscape Architecture	12237
7.	Prof. Parmeshvari K. Chaudhari	Assistant Professor	M.Sc. (Horti.)	16/11/2016	4.5	Floriculture & Landscape Architecture	12046-01
8.	Dr. G D Patel	Assistant Professor	Ph.D. Hort. (Floriculture)	24/1/2012	09	Floriculture & Landscape Architecture	12041

4.3.2 Academic Activities of the Department

List of Courses Offered By the Department (As Per 5th Deans' Committee)

B. Sc. (Hons.) Horticulture						
S.N.	Sem.	Course Code	Title	Credit hrs.	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. Sudha Patil	
3.	IV	FLA- 4.3	Principles of Landscape Architecture	1(0+1)	Dr. H. P. Shah	
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)	Prof. Ankit Bhandari	
Sub-Total				13(8+5)		

STUDENT READY-I: Experiential Learning Programme					
6.	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
7.	VII	HWE 7.4	Floriculture and Landscape Architecture	10(0+6)	
		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)	Mr. Ankit Bhandari
STUDENT READY-II: Rural Horticultural Work Experience					
8.	VIII	HWE. 8.3 (RHWE)	University farms (SDAU) and Visit to Horticulture Based Industries of Gujarat Region	4(0+4)	Dr. Dipal Bhatt Prof. A. J. Bhandari
Sub-Total Student Ready				24 (0+24)	
Total				37 (8+29)	

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

M.Sc. (Horticulture): Floriculture & Landscape Architecture					
S.N.	Sem.	Course Code	Title	Credit hrs.	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)	Prof. A J Bhandari
8.	Even	FLA 508	CAD for Outdoor and Indoorscaping	3(2+1)	Dr. Dipal S. Bhatt
*Compulsory				Total	24 (16+8)
Ph. D. (Horticulture): Floriculture & Landscape Architecture					
S.N	Sem.	Course Code	Title	Credit hrs.	Faculty
1.	Odd	FLA 601**	Advances in breeding of flower crops	3(2+1)	Dr. Sudha Patil

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
6.	Odd/ Even	FLA 691	Doctoral Seminar I	1(1+0)	Major Guide
7.	Odd/ Even	FLA 692	Doctoral Seminar II	1(1+0)	Major Guide
8.	Odd/ Even	FLA 699	Doctoral Research	45(0+45)	Major Guide
**Compulsory				Total	67 (16+51)

PG students enrollment in Masters' Programme

S. N.	Name of Student	Registration No.	Title of the research programme	Major Guide
1.	Solanki Kaushikkumar Satyanarayan	2020219042	Response of varieties and spacing on growth, spreading and quality of Turfgrass under South Gujarat condition	Dr. G. D. Patel
2.	Baraiya Ajay Himmatbhai	2020219004	Induction of variability in gladiolus (<i>G. grandifloras</i> L.) by chemical mutagens	Dr. Sudha Patil
3.	Chandana Shivaswamy	2020219007	Induction of variability in China aster [<i>Callistephuschinensis</i> (L) nees.] by chemical mutagenesis	Dr. Sudha Patil
4.	Chaudhari Roshankumar Anilbhai	2020219008	Effect of different sources and split application of nitrogen on growth and flowering of African marigold	Dr. S. A. Aklade
5.	Nutan Gujarati	2020219023	Evaluation of <i>Phalaenopsis</i> orchid for growth and yield under nethouse condition	Dr. Sudha Patil
6.	Patel Jeminiben Dhansukhbhai	2020219027	Influence of plant growth regulators on growth, flowering and yield of china aster var. Arka Archana	Dr. B. B. Patel
7.	Sheetalbaben Shaileshbhai Patel	2020219032	Effect of different planting time and stimulants on growth, flowering and yield of chrysanthemum	Dr. Dipal S. Bhatt
8.	Patel Tejalbaben Prakashbhai	2020219033	Effect of growth retardants on induction of dwarfing in bougainvillea (<i>Bougainvillea spectabilis</i>)	Dr. Dipal S. Bhatt
9.	Sindha Mallikaben Ravjibhai	2020219040	Effect of types of cuttings and IBA concentration on rooting of DAMAS plant (<i>Conocarpuslancifolius</i>)	Dr. S. T. Bhatt

10.	Soujanya M. B.	2020219043	Effect of organic mulch on growth and flowering of country rose	Dr. S. T. Bhatt
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PG students enrollment in Doctoral Programme

S. N.	Name of Student	Registration No.	Title of the research programme	Major Guide
1.	Dinesh Kumar	1020220004	Assessment of growth performance and air quality of plants in indoor environment and standardization of growing media and water requirement for indoor succulents	Dr. Alka Singh
2.	Parmeshwari K. Chaudhari (In Srvice)	1020220002	Effect of irrigation schedule and Nitrogen levels on gerbera in greenhouse	Dr. Alka Singh

Coaching Classes

S. N.	Examination	Period	Faculty members
1	NET	April-May, 2020	Dr. Alka Singh, Dr. S. L. Chawla, Dr H. P. Shah, Dr M. A. Patel, Dr Sudha Patil, Dr Dipal Bhatt, Mr. A. J. Bhandari

RAC Meetings conducted by the Department

S. N.	Meeting Details			Proceeding No. and date	Remarks
	No.	Date of meeting	Venue		
1.	13 th RAC Part -I	12.02.2021	Conference Hall, ACHF, NAU	NAU/ACHF/FLA/RAC/7880 /2021 7881 /2021	3 Ph. D. students presented their outline of New technical research programme
2.	13 th RAC Part - II	01.04.2021	Conference Hall, ACHF, NAU	NAU/ACHF/FLA/RAC/7880 /2021 date 26.05.2021	2 Ph. D. and 8 M. Sc. students presented their outline of new technical research programme

4.3.3 Research Activities of the Department

Research Schemes in Operation

S. N.	Name of 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	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 : Prof. Ankit J. Bhandari
4.	Landscaping and Gardening Training Programme (<i>Mali Talim</i>)	12508	1998-99	Plan	Dr. H. P. Shah
5.	Model Nursery for Ornamental plants	9510N-50: (RF)	2007-08	NHM	Dr. M.A. Patel
6.	ELP on High Tech Protected Cultivation of Horticultural Crops	9510N-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: Prof. M. A. Patel Dr. H. P. Shah
8.	AICRP on Floriculture	2100	2015	ICAR	PI: Dr. S. L. Chawla Co-PI: Dr. Dipal Bhatt

Objectives of 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 (BH: 2100)

Objectives:

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

Research recommendations

1. Effect of different growing media on Haworthia pot plant

Nurserymen raising haworthia as pot culture under naturally ventilated polyhouse are recommended to grow in media comprising of Sand: Vermicompost (9:1 by v/v) for better plant growth and quality.



2. Development of plant architecture through pinching and pruning in adenium pot plant under soilless growing system

Nursery men or farmers raising adeniums as pot culture are 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.

Varieties Released

GNAd-3 (Aabha)

Adenium variety GNAd-3 (Aabha) is novel that bears pink coloured flowers having multipetalous flower form with dual whorls of petals (10) in each flower with prominent red streaks in the centre 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. The nursery men dealing with ornamental plants, landscape designers and plant lovers are recommended to grow adenium variety GNAd-3 (Aabha) under polyhouse for higher commercial value as well as in garden and house plant.



GNAd-4 (Shobhita)

Adenium variety GNAd-4 (Shobhita) is novel that 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. 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.



Approved New Technical Programmes

S.N.	Title of NTP	Name of PI/Co-PI/Associate
1.	Evaluation of chrysanthemummutants in NV polyhouse	PI: Dr. H.P Shah Co-PIs: Dr. Alka Singh; Dr.G.D. Patel
2.	Testing of genotypes in tuberose for cut flower	PI: Dr. S.L. Chawla Co-PIs: Dr. Sudha Patil; Dr. Dipal Bhatt
3.	Testing of genotypes in tuberose for pot culture	PI: Dr. S.L. Chawla Co-PIs: Dr. Sudha Patil; Dr. Dipal Bhatt
4.	Testing of new genotypes of gladiolus	PI: Dr. Dipal Bhatt Co-PIs: Dr. Sudha Patil; Dr. S.L. Chawla
5.	Effect of plant growth retardants on growth and flowering in pot Kalanchoe	PI: Dr. Shivam Patel Co-PIs: Dr. Alka Singh; Dr.G D Patel

4.3.4 Extension Activities of Department Khedut Shibir/Training organized by department

S. N.	Date	Place	Name of activity	Name of Faculty
1.	02.-02.-2021 to 05.-02.2021	NAU, Navsari (online mode)	ATIC, DEE & Dept of Floriculture, ACHF, NAU, Navsari	Training on Bonsai and flower Arrangement



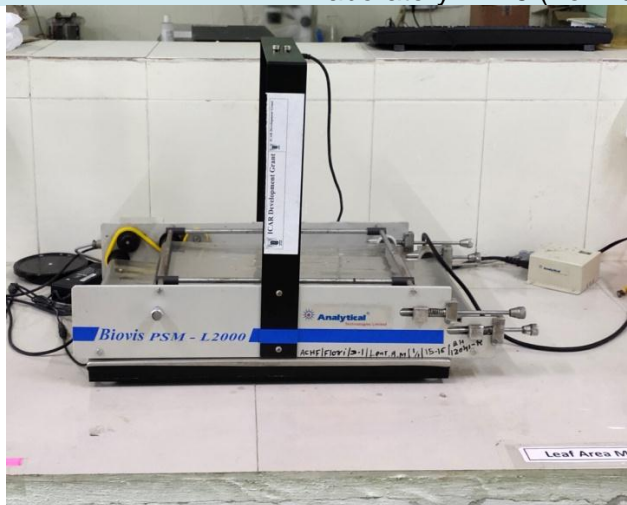
Training on Bonsai and Flower Arrangement

4.3.5 Infrastructure or Facilities available/created Department

S.N.	Infrastructure or Facilities available	Area/No.
1.	Laboratory-FLA7 (For Biochemical work)	1
2.	Laboratory-FLA6 (For general Floriculture work)	1
3.	Gardens (Rooftop garden, Zen garden, Sand garden, Strolling garden)	5
4.	Laboratory-FLA5 (For Value Addition in Flowers)	1



Laboratory-FLA5 (For Value Addition in Flowers)



Laboratory-FLA 7 (For Biochemical work)



College garden



Roof Top garden



Bio wall



Miniature Garden



Sand Garden



Zen Garden



Strolling Garden

Farm

S.N.	Infrastructure or Facilities available	Area/No.
1.	Floriculture Research farm	
a.	Total area	4 ha

	Naturally Ventilated Polyhouse for orchid	500 m ²
	Net house for Heliconias	1500 m ²
b.	Net house for Bird of Paradise	500 m ²
c.	Selling unit net house	750 m ²
d.	Net house for cut greens, foliage plants etc.	175 m ²
e.	Rain shelter for chrysanthemum, gypsophila etc.	200 m ²
f.	Propagation unit	550 m ²
g.	Net house for orchids and anthuriums	150 m ²
2.	Green House Complex	
	Naturally Ventilated Polyhouse	2 Nos.
	Fan and Pad type Polyhouse	2 Nos.
	Net house	2 Nos.
3.	Advanced Training Centre on Soilless Growing system for various crops	
	Total area	2 acres
	Naturally Ventilated Polyhouse	1 No.
	Polyhouse with Fan and Pad system	1 No.
	Ornamental Plant Nursery	1 No.



Rain shelter



Store room

Floriculture Research Farm



Chrysanthemum



Gladiolus

Floriculture Research Farm



Fan & Pad Polyhouse



NV Polyhouse

Green House Complex



Haworthia



Adenium

ATC Soilless System for various crops

4.3.6 Production of planting materials

S. N.	Planting material	Crop and Cultivar	Quantity/Nos.
1.	Cut flowers	Cut flowers	13448 Nos.
2.	Loose flowers	Rose, marigold, chrysanthemum	607 kg
3.	Ornamental plants	Indoor and Outdoor plants	4854 Nos.
4.	Potted plants	Adenium	500 Nos.
5.	Bulbs, corms, rhizomes etc.	Bulbous ornamental flower crops	17329 Nos.
6.	Rooted cuttings	Ornamental plants, flower crops <i>etc.</i>	850 Nos.
7.	Succulents	Succulent plants	500 Nos.
8.	Bouquets	Value added product	379 Nos.
9.	Medicinal plants	Medicinal plants	1851 Nos.

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	BH
1.	Dr. Dev Raj	Associate Professor and Head	Ph.D. (Hort.)	17.02.2012	13	Post Harvest Technology	12237
2.	Er. Parag S. Pandit	Assistant Professor	M. Tech. (Agril. Engg.)	14/02/2007	13	Agril. Process & Food Engg.	12237
3.	Er. Ashok Kumar Senapati	Assistant Professor	M. Tech.	30/03/2009	11	Post Harvest Engg.	12237
4.	Dr. Jilen M. Mayani	Assistant Professor	Ph.D. (Hort.)	29/06/2010	10	Post Harvest Technology	12237
5.	Er. Fakir Mohan Sahu	Assistant Professor	M.Tech.	25/02/2013	7	Process & Food Engg.	12244
6.	Dr. Harish G. Suthar	Assistant Professor	Ph.D. (Microbiology)	27/01/2014	6	Microbiology	12244
7.	Dr. Nilam V. Patel	Assistant Professor	Ph.D. (Hort.)	27/08/2015	5	Post Harvest Technology	6503-03

4.4.2 Academic Activities of Department

List of Courses Offered By the Department (As Per 5th Deans' Committee)

B.Sc. (Hons.) Horticulture					
S.N.	Sem.	Course Code	Title	Credit hrs.	Faculty
1.	I	PHT 1.1	Fundamentals of Food & Nutrition	2(1+1)	Dr. J.M. Mayani
2.	V	PHT 5.2	Postharvest Management of Horticultural Crops	3(2+1)	Er. A.K. Senapati
3.	VI	PHT 6.3	Processing of Horticultural Crops	3(1+2)	Er. A.K. Senapati
Sub-Total				8(4+4)	
STUDENT READY I: Experiential Learning Programme					
4.	VII	HWE 7.3	Post harvest handling and value addition in Horticultural Crops	10 (0+10)	
		HWE: 7.3.1	Preparation and evaluation of processed products	6(0+6)	Dr. N.V. Patel Er. A.K. Senapati Er. F.M. Sahu

		HWE:7.3.2	Packaging and Marketing of processed products	4(0+4)	Er. P.S. Pandit
STUDENT READY II: Rural Horticultural Work Experience					
5.	VIII	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 Er.A.K.Senapati Dr. H.G. Suthar
Sub-Total Student Ready I and II				14 (0+14)	
Total				22 (4+18)	

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

M.Sc. Horticulture: Post Harvest Technology					
S.N.	Sem.	Course Code	Title	Credit hrs.	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	20 (0+20)	PG Guide
14.	Odd	VSC:509	Fundamentals of processing of vegetables	3(2+1)	Dr. J. M. Mayani
15.	Even	PSMA506*	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			Sub-Total	53 (21+32)	
COMPULSORY NON-CREDIT COURSES					
1.	Even	PHT:512*	In-Plant Training (Compulsory course)	NC	Dr. Dev Raj
				Sub-Total	-
				Total	53 (21+32)

Ph.D. Horticulture: Post Harvest Technology

S.N.	Sem.	Course Code	Title	Credit hrs	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 Methodology in Post Harvest Technology	3(1+2)	Dr. H.G. Suthar
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
**Compulsory				Total	71(20+51)

PG students enrollment in Masters' Programme

S.N.	Name of Student	Registration No.	Title of the research programme	Major Guide
1.	Brunda N. B.	2020219006	Standardization of blended squash using banana pseudostem sap with mango, papaya and <i>Aloe vera</i>	Dr. C.S. Desai
2.	Dabhi Mayursinh Jitendrasinh	2020219019	Standardization of technology for preparation of instant beverage mix powder using unripe mango (<i>Mangifera indica</i> L.) cv. Kesar	Dr. Nilam V. Patel
3.	Prajapati Hinjalkumari Shantilal	2020219036	Standardization of technology for preparation of spiced squash using mango (<i>Mangifera indica</i> L.) cv. Rajapuri	Dr. Nilam V. Patel
4.	Dhimmar Shivani Bhikhubhai	2020220009	Effect of slice thickness and blanching on quality of osmotically dehydrated coconut (<i>Cocos nucifera</i> L.) chips	Dr. Nilam V. Patel
5.	Maru Shveta Markhibhai	2020220017	Standardization of formulation for preparation of vegetables enriched pasta	Dr. Dev Raj
6.	Patel Prachi Ajaybhai	2020220023	Standardization of drying methods for preparation of powder from banana pseudostem central core.	Dr. C. S. Desai
7.	Tandel Prakrutiben Balubhai	2020220031	Standardization of technology for preparation of instant coconut (<i>Cocos nucifera</i> L.) chutney mix	Dr. N. V. Patel
8.	Varsha G D	2020220034	Standardization of blanching and sulphitation technique for dehydration of banana pseudostem central core for powder making using cabinet dryer	Dr. C. S. Desai

PG students enrollment in Doctoral Programme

S.N.	Name of Student	Registration No.	Title of the research programme	Major Guide
1.	Bharai Ram Boghabhai	1020217004	Processing and value addition of sapota (<i>Manilkara achras</i> (Mill.) Fosberg) fruits	Dr. Dev Raj
2.	Naik Pooja Rajeshbhai	1020218001	Processing and value addition of carrot (<i>Daucus carota</i> L.) into fresh cut pieces, candy and	Dr. Dev Raj

			instant halwa mix	
3.	Ashuqullah Atif	1020218008	Preservation techniques for value addition of carrot (<i>Daucus carota</i> L.) by juice extraction and drying.	Dr. Dev Raj
4.	Gohil Mehulkumar Maganbhai	1020220006	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.	8 th RAC	07.11.2021	Conference Hall, PHTC, ACHF, NAU	18/11/2020	01 M.Sc. student presented revised outline of technical research programme
2.	9 th RAC	12.02.2021	Conference Hall, ACHF, NAU	26/04/2021	01 Ph.D. student presented outline of new technical research programme.
3.	10 th RAC	03.04.2021	Swami Vivekanand Hall, ACHF, NAU	26/04/2021	05 M.Sc. students presented outline of new technical research programmes.

Monitoring of PG experiments by the Departments

Sr. No.	Date of Visit	Place	Proceedings No. and date	Remarks
1.	11.09.2020	Centre of excellence on Post Harvest Technology, ACHF, NAU	-	2 M. Sc. Students Experiments were supervised under the chairmanship of Dean of this College

4.4.3 Research Activities of the Department Research Schemes in Operation

S.N.	Name of Research Project	Budget Head	Year of start	Type of Scheme	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 Schemes

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

- 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)

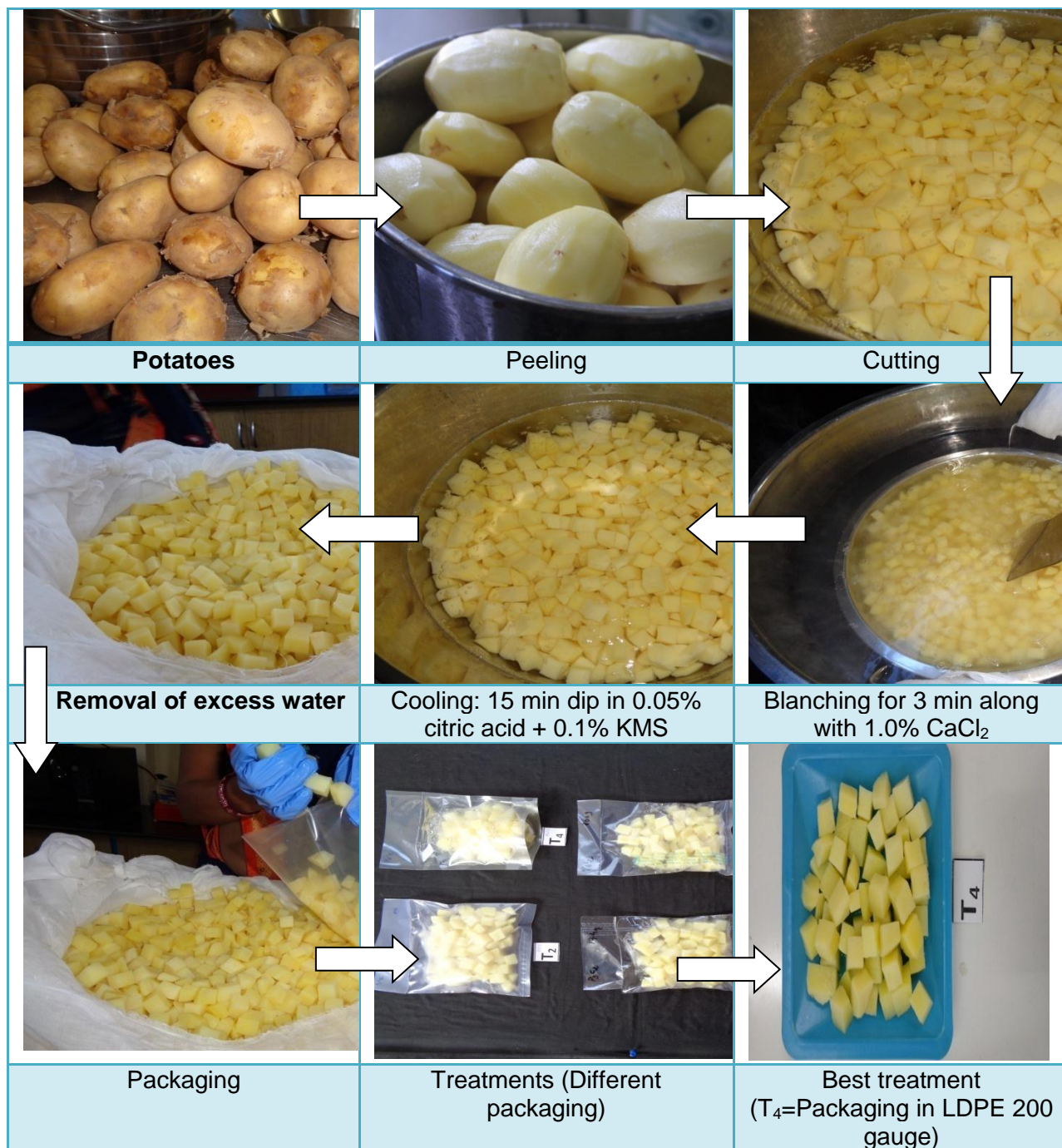
- To establish PG faculty of Post Harvest Technology & Process Engineering
- Diversification and upgradation to Post Harvest Technology & Process Engineering education research and extension

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

- 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 recommendations	Name of PI/Co-PI/Associate
1.	Standardization of technology for minimal processing of fresh cut potatoes (<i>Solanum tuberosum</i> L.)	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 method for extraction of passion fruits (<i>Passiflora edulis</i>) juice	PI: Dr. Dev Raj, CoPIs: Dr. Nilam V. Patel, Er. A. K. Senapati

2.	Standardization of suitable blending proportion for preparation of spiced squash (appetizer) using passion fruits (<i>Passiflora edulis</i>) and bael fruits (<i>Aegle marmelos</i> L.)	PI: Dr. Nilam V. Patel CoPIs: Dr. Dev Raj, Er. A. K. Senapati
3.	Standardization of formulation for preparation of fruit bar from sapota pulp	PI: Dr. Dev Raj, CoPIs: Er. A.K. Senapati, Er. F.M. Sahu, Dr. Nilam V. Patel
4.	Effect of blanching and drying on quality of oyster mushroom (<i>Pleurotus ostreatus</i>)	PI: Dr. Harish G. Suthar CoPIs: Er. Parag S. Pandit, Dr. Nitin Patel, Dr. Dev Raj

New Externally Funded (Other Agency) Projects Submitted

S. N.	Title of the Project	PI	Co- PI	Name of Funding Agency
1.	Processing and value addition of Horticultural Produce	Dr. Dev Raj	Dr. J. M. Mayani	NAHEP under CAAST (ICAR)

4.4.4 Extension Activities of Department

Khedut Shibir/Training organized by department

S.N.	Date	Place	Name of activity	Name of Faculty
1.	12-13/1/2021	PHTC, NAU	Training on ISO 22000:2018 and ISO 9001:2015	Unit-1, CAAST-NAHEP, NAU Navsari



Training on ISO 22000:2018 and ISO 9001:2015 at PHTC, NAU

Transfer of Technology (ToT)

Visit of farmers in the Department for Technical Guidance

S.N.	Visitors	No. of visitors	Venue
1.	Officers	13	Deptt of PHT
2.	Farmers	117	Deptt of PHT
3.	Students	-	-
4.	Entrepreneurs / Input dealers	11	Deptt of PHT
5.	Others	-	-
Total		141	

4.4.5 Infrastructure or Facilities available/created

S.N.	Infrastructure or Facilities available	S.N.	Infrastructure or Facilities available
1.	Food Product R&D Laboratory	2.	Cobb tester and Tintometer
3.	Quality Control Laboratory	4.	RO system with cooler

5.	Food Microbiology Laboratory	6.	pH meter
7.	Sensory Laboratory	8.	Microscopes
9.	Post Harvest Physiology and Packaging Laboratory	10.	Spectrophotometer, Oxygen meter
11.	Post Harvest Engineering laboratory	12.	Ethylene gas analyzer
13.	UG Laboratory	14.	Micro-centrifuge
15.	Computer Net-Working Laboratory	16.	Borewell, compressor
17.	Seminar / conference Room well equipped with e- teaching aids	18.	Deep freezer
19.	Micro-encapsulation Unit	20.	Pan coating machine
21.	65 KVA Generator	22.	Ozone analyzer
23.	Nitrogen Flux Packing Unit	24.	Slicer
25.	Carbonation unit	26.	Candy making machine
27.	Twin screw extruder		

Facilities available in laboratories

Autoclave	Blade Mixer	Blanching Tank
BOD Incubator	BOD Portable Meter	Bomb Calorimeter
Box Compression Tester	Box Drop Tester	Bulk Density Meter
Bursting Strength Meter	CFFB Box Penetrometer	COD Portable Meter
Colorimeter	Colony Counter	Deep Freezers
Digital pH Meter	Digital Refractometer	Digital Vernier Caliper
Double Seamer	Extruder	Fermenter
Filter Press	Flanger Hand	Freeze Dryer (lyophilizer)
Gas Analyser	Homogenizer	Hot Air Oven
Hot water Treatment Plant	Hydraulic Juice Press	Ice Flaking Machine
Incubator Shaker	Infrared Dryer	Infrared Moisture Balance
Kjeldal Distillation Apparatus	Laminar Air Flow	Mechanical Dehydrator
Microscope with Camera	Microwave Oven	Moisture Analyser
Multiparameter Meter	N ₂ Estimation Apparatus	Online Data Logger
PE gauge Meter	Pulveriser	Reformer
Refrigerated Centrifuge	Rheometer	Rotary Flat Can Body
Shrink wrapped Machine	Size Grader	Spectrophotometer
Texture Analyser	Vacuum Dryer	Vacuum Packaging Unit
Vibration Testing Machine	Water activity Meter	Water Vapour Transmission Rate Meter
Waxing Machine	Weighing Balance	Weight Grader
PCR - Thermo cycler	Electrophoresis Unit	Emulsifier
Flame Photometer	Mini-centrifuge	Magnetic stirrer
Micro-encapsulation unit	Nitrogen Flux packing	Ice cream maker

Additional excellence infrastructure

- ✓ Centre of Excellence on Post Harvest Technology
- ✓ Mango and Tomato Processing Plant having capacity of 500 kg per 8 hours
- ✓ Onion Dehydration Plant having capacity of 2 tonnes per 8 hours

- ✓ Juice Processing Line having capacity of 50 litre per hour
- ✓ Banana Processing Plant
- ✓ Low Temperature Storage Structure having 20T capacity
- ✓ Pre-Cooling Unit having 2.5T capacity
- ✓ Fruit Ripening Chambers having 6T capacity
- ✓ Controlled Atmosphere Storage Unit having 3T capacity
- ✓ R.O. Water filtration Unit having 1200 L/h capacity
- ✓ Freeze Drying Unit
- ✓ Heavy duty Spray Dryers

Infrastructure or Facilities created

S.N.	Infrastructure or Facilities created
1.	2 HP 3 phase variable speed motor with controller unit
2.	Microscope
3.	Microwave oven
4.	Deep fry double tank machine

Packaging Infrastructure

		
Processing laboratory	Analytical Laboratory	Packaging Laboratory
		
Sensory Laboratory	Food Microbiology Laboratory	Conference hall
		
Mango Processing Plant	Dehydration Plant	
Pilot plant at PHT, NAU		

4.4.6 Production of Value added/Processed products

S.N.	Processed products	Capacity	Quantity (No. of bottles)
1.	Mango nectar	200 ml	640
2.	Guava nectar	200 ml	2355
3.	Pineapple drink	200 ml	1206
4.	Orange drink	200 ml	500
5.	Pineapple squash	750 ml	90
6.	Guava squash	750 ml	145
7.	Mango squash	750 ml	80
8.	Orange squash	750 ml	60
9.	Noni juice	200 ml	107
10.	Mango pulp	Tin-850 g	43
11.	Mango pulp	Bottle-1 kg	90
12.	Turmeric powder	500 g	170
13.	Turmeric powder	1 kg	65
14.	Aonla juice	500 ml	40
15.	Aonla juice	1 L	45
16.	Aonla powder	250 g	20
17.	Mango pickles	500 g	45
18.	Mix fruit jam	500 g	640

Processed products of the department



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 & Head	Ph.D. (Agril. Ento.)	10.04.2006	32	Agril. Entomology	12237
2.	Dr. P. R. Patel	Associate Professor	Ph.D. (Plant Path.)	01.04.2011	25	Plant Pathology	12237
3.	Dr. Hemant Sharma	Associate Professor	Ph.D. (Plant Path.)	15.08.2019	14	Plant Pathology	12952
4.	Dr. Snehal M. Patel	Assistant Professor	Ph.D. (Agril. Ento.)	14.06.2010	11	Agril. Entomology	12237
5.	Dr. V. P. Prajapati	Assistant Professor	Ph.D. (Plant Path.)	21.08.2018	07	Plant Pathology	12237

4.5.2 Academic Activities of Department

List of Courses Offered By the Department (As Per 5th Deans' Committee)

B.Sc. (Hons.) Horticulture						
S.N.	Sem.	Course Code	Title	Credit hrs	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. Dileswer 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. H.V. Pandya	
9.	Even	PPT 6.8	Apiculture, Sericulture and Lac Culture	2(1+1)	Dr. H.V. Pandya	
Total				25(16+9)		

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

M.Sc. Horticulture- Horticultural Entomology					
S. N.	Sem.	Course Code	Title	Credit hrs.	Faculty
1.	Even/ Odd	HENT 510	Principles of Integrated Pest Management	2(1+1)	Dr. Snehal Patel/ Dr. C.U. Shinde
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	34(10+24)
M.Sc. Horticulture- Horticultural Pathology					
1.	Even/ Odd	Horti. Path. 501*	Mycology	3(2+1)	Dr. K. B. Rakholiya
2.	Even/ Odd	Horti. Path. 502*	Plant Virology	3(2+1)	Dr. Lalit Mahatma
3.	Even/ Odd	Horti. Path. 503*	Plant Bacteriology	3(2+1)	Dr. M. D. Khunt
4.	Even/ Odd	Horti. Path. 504*	Principles of Plant Pathology	3(3+0)	Dr. Lalit Mahatma
5.	Even/ Odd	Horti. Path. 505*	Detection and Diagnosis of Plant Diseases	2(0+2)	Dr. Priya John
6.	Even/ Odd	Horti. Path. 506	Principles of Plant Disease Management	3(2+1)	Dr. K. B. Rakholiya
7.	Even/ Odd	Horti. Path. 507	Diseases of Field and Medicinal Crops	3(2+1)	Dr. Shivangi Kansara
8.	Even/ Odd	Horti. Path. 508	Diseases of fruits, plantation and Ornamental Crops	3(2+1)	Dr. Hemant Sharma /Dr. P.R. Patel
9.	Even/ Odd	Horti. Path. 509	Diseases of Vegetable And Spices Crops	3(2+1)	Dr. D. H. Tandel
10.	Even/ Odd	Horti. Path. 591	Master's Seminar	1(1+0)	Major Guide
11.	Even/ Odd	Horti. Path. 599	Master's Research	20(0+20)	Major Guide
*Compulsory				Total	47(18+29)

Ph.D. Horticulture- Horticultural Entomology					
S. N.	Sem.	Course Code	Title	Credit hrs.	Faculty
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				62(13+49)	

Ph.D. Horticulture- Horticultural Pathology					
1.	Even	Horti.Path 511	Chemicals in Plant Disease Management	3(2+1)	Dr. Gopal Chopada
2.	Even	Horti.Path 516	Integrated Disease Management	3(2+1)	Dr. P.R. Patel
3.	Odd	Horti.Path 518	Epidemiology and Forecasting of Plant Diseases	3(2+1)	Dr. V.A. Patil
4.	Odd	Horti.Path 519	Post Harvest Diseases	3(2+1)	Dr. Hemant Sharma
5.	Even/Odd	Horti.Path. 602	Advanced Virology	3(2+1)	Dr. Lalit Mahatma
6.	Even/Odd	Horti.Path. 603	Advanced Bacteriology	3(2+1)	Dr. Trupti Vyas
7.	Odd	Horti.Path 604**	Molecular Basis of Host-Pathogen Interaction	3(2+1)	Dr. Priya John
8.	Even	Horti.Path 601	Advanced Mycology	3(2+1)	Dr. K.B. Rakholiya
9.	Even/Odd	Horti.Path 691	Doctoral Seminar I	1(1+0)	Major Guide
10.	Even/Odd	Horti.Path 692	Doctoral Seminar II	1(1+0)	Major Guide
11.	Even/Odd	Horti.Path 699	Doctoral Research	45(0+45)	Major Guide
**Compulsory Total				71(18+53)	

PG students enrollment in Master Programme (Horticultural Entomology)

S. N.	Name of Student	Registration No.	Title of the research programme	Major Guide
1.	Bharodiya Dhruv A.	2020220003	Evaluation of various botanical extracts against head borer [<i>Hellula undalis</i> (Fabricius)] infesting cabbage	Dr. H. V. Pandya

2.	Prajapati Sachin M.	2020220025	Seasonal abundance of important pest of mango and chemical control of mango leaf webber, <i>Orthaga exvinacea</i> Hampson	Dr. Snehal Patel
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PG students enrollment in Doctoral Programme (Horticultural Entomology)

S.N.	Name of Student	Registration No.	Title of the research programme	Major Guide
1.	Tandel Roma Ramniklal	1020220014	Morphological and biological basis of resistance against shoot and fruit borer (<i>Leucinodes orbonalis</i> Guenee) infesting brinjal	Dr. H. V. Pandya

Monitoring of PG experiments by the Department

S. N.	Name of discipline	Date of Visit	Place	Proceedings No. and date	Remarks
1.	Plant Pathology	26.06.2020	Floriculture Farm, ACHF, NAU	-	Experiemnt of 01 Ph.D
2.	Plant Pathology	27.07.2020	Floriculture Farm, ACHF, NAU	-	Transplanting
3.	Plant Pathology	06.10.2020	Floriculture Farm, ACHF, NAU	-	Spraying
4.	Plant Pathology	06.11.2020	Floriculture Farm, ACHF, NAU	-	Harvesting
5.	Plant Pathology	24.12.2020	Floriculture Farm, ACHF, NAU	-	Harvesting
6.	Entomology	26.06.2020	RHRS Farm, ACHF, Navsari	-	M.Sc. (Horti.) Entomology
7.	Entomology	27.07.2020	RHRS Farm, ACHF, Navsari	-	M.Sc. (Horti.) Entomology
8.	Entomology	06.10.2020	RHRS Farm, ACHF, Navsari	-	M.Sc. (Horti.) Entomology
9.	Entomology	06.11.2020	RHRS Farm, ACHF, Navsari	-	M.Sc. (Horti.) Entomology
10.	Entomology	24.12.2020	RHRS Farm, ACHF, Navsari	-	M.Sc. (Horti.) Entomology
11.	Entomology	26.06.2020	Floriculture Farm, ACHF, Navsari	-	M.Sc. (Horti.) Entomology
12.	Entomology	27.07.2020	Floriculture Farm, ACHF, Navsari	-	M.Sc. (Horti.) Entomology
13.	Entomology	06.10.2020	Floriculture Farm, ACHF, Navsari	-	M.Sc. (Horti.) Entomology
14.	Entomology	06.11.2020	Floriculture Farm, ACHF, Navsari	-	M.Sc. (Horti.) Entomology
15.	Entomology	24.12.2020	Floriculture Farm, ACHF, Navsari	-	M.Sc. (Horti.) Entomology

4.5.3 Research Activities of the Department Research Schemes in Operation

S.N.	Name of Research Project	Budget Head	Year of Start	Type of Scheme	PI & Co-PI
1.	RKVY Project on Investigation of major quarantine pests and post-harvest diseases of mango in south Gujarat and mass production of fruit fly trap	14052	2017-18	Other agency Project	PI: Dr. H.V. Pandya Co-PIs: Dr. P.R. Patel, Dr. Viral P. Prajapati, Dr. Hemant Sharma
2.	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

Objectives of Scheme

- RKVY project on Investigation of major quarantine pests and post-harvest diseases of mango in south Gujarat and mass production of fruit fly trap (BH: 14052)**
 - Assessment of crop loss caused by quarantine pests (fruit fly, stone weevil and fruit borer) of mango.
 - Assessment of crop loss caused by post harvest diseases (anthracnose, fruit rot and stem end rot) of mango
 - Mapping of quarantine pest infested and disease infected mango regions
 - Mass production and popularization of fruit fly trap.
 - Popularization of hot water treatment technology for post harvest diseases of mango
- 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

1. Population dynamics of *Helicoverpa armigera* (Hubner) through pheromone trap in tomato

Farmers of South Gujarat Heavy Rainfall Agro-climatic Zone III growing tomato are recommended to monitor the infestation of *Helicoverpa armigera* from 3rd to 18th week after transplanting tomato crop for timely management of pest.





2. Effect of bio pesticides on shoot borer in organic mango

Farmers of south Gujarat growing organic mango are advised to spray azadirachtin 1500 ppm @33 ml / 10 litres at the initiation of flowering and second at fifteen days after the first spray for the management of mango shoot borer.



3. Farmers, consumer and entrepreneurs are recommended to manage post harvest 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 adversely affecting the quality of the fruits.



4. Under the protected cultivation of gerbera, leaf blight disease (*Alternaria alternata*) was observed from July to August (29th to 35th SMW) with its maximum intensity.



Approved New Technical Programmes

S.N.	Title of NTP	Name of PI/Co-PI/Associate
1.	Survey and surveillance of natural enemies in okra ecosystem under field condition	Dr. H.V. Pandya, Dr. Snehal Patel and Dr. Anand Kaswala
2.	Survey and surveillance of natural enemies in organic mango orchard	Dr. Snehal Patel, Dr. H.V. Pandya and Dr. Anand Kaswala
3.	Evaluation of bush type French bean varieties	Dr. V. P. Prajapati, Dr. P. R. Patel,

	against leaf spot disease under NVPH	Dr. Hemant Sharma
4.	Evaluation of okra varieties for their reaction to Okra yellow vein mosaic virus	Dr. P. R. Patel, Dr. Hemant Sharma and Dr. V. P. Prajapati
5.	Evaluation of Ardu (<i>Ailanthus excelsa</i> Roxb.) germplasm against powdery mildew disease	Dr. Hemant Sharma Dr. P. R. Patel and Dr. V. P. Prajapati Dr. Dileswar Nayak

4.5.4 Extension Activities of Department

Diagnostic visit at farmers' field

S.N.	Diagnostic Team	Name of Farmer and Address	Date
1.	Plant Protection Team	Patel Pratik Harishbhai, Manekpur (Gadat)	16.04.2020
2.	Plant Protection Team	Mukeshbhai M. Parekh, Motvan, Hansot Ankleswar	02.6.2020
3.	Plant Protection Team	Farak Mohmad Haweliwala, Telada, Distt. Navsari, Near Vesma	11.06.2020
4.	Plant Protection Team	Damjibhai Harjibhai Waghani, Surat	18.06.2020
5.	Plant Protection Team	Jigar Pravinbhai Desai, Ajaji farm, Valod, Distt. Surat	22.06.2020
6.	Plant Protection Team	Tusharbhai , Sisodara	15.09.2020
7.	Plant Protection Team	Mayurbhai Patel, Village Sarbhon (Bardoli), Surat	05.10.2020
8.	Plant Protection Team	Manubhai Sojitra, Kodrama, Ta. Olpad	24.03.2021
9.	Plant Protection Team	Patel Hashmukhbhai Chhibubhai, Singod, Navsari	26.03.2021
10.	Plant Protection Team	Desai Rakeshbhai Harishbhai, Village Undach, Ta. Mahuva, Distt. Surat	31.03.2021



Diagnostic visit at farmers' field by Plant Protection Team

Khedut Shibir Training organized by department

S.N.	Date	Place	Name of activity	Name of Faculty
1.	27.11.2020	Navsari	<i>Khedut Shibir</i>	Dr. P.R. Patel, Dr. Hemant Sharma, Dr. V. P. Prajapati, Dr. H. V. Pandya, Dr. S. M. Patel
2.	23.12.2020	Gadat	<i>Khedut Shibir</i>	Dr. P.R. Patel, Dr. Hemant Sharma, Dr. V. P. Prajapati

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.	Disecting 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



Refrigerated Centrifuge



Digital colony Counter



Analytical Digital Balance



Digital Balance



Orbital Shaker



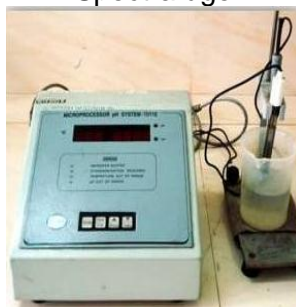
Spectrafuge



Herbarium Cabinets



Electric Loop Sterilizer



Microprocessor pH System



Microwave Oven



Hot Water Bath



Hot Air Oven



Verticle Autoclave



Laminar Air Flow



Bod Incubator



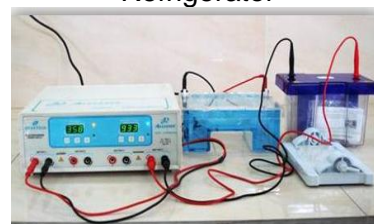
Refrigerator



Elisa Plate Reader



Elisa Plate Washer



Polyacrylamide Gel
Electrophoresis Systems



Microscopy Laboratory With Pathological Compound Microscopes



Disecting Microscopes



Instrumentation Lab With Centrifuge



Stereozoom Microscopes



Compound Binocular Microscope



Microscope with Camera



Lab. Projector



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	BH
1.	Dr. Rehana Niyaria	Associate Professor	Ph.D.	23.11.2016	13.7	Genetics & Plant Breeding	12014-05
2.	Dr. Diwakar Singh	Assistant Professor	Ph.D.	06.04.2011	10	Biochemistry	11237
3.	Dr. K. P. Suthar	Assistant Professor	Ph.D.	01.04.2011	10	Plant Biotechnology	12097
4.	Dr. Chintan Kapadia	Assistant Professor	Ph.D.	22.01.2013	8.3	Plant Biotechnology	12237

4.6.2 Academic Activities of Department

List of Courses Offered By The Department (As Per 5th Deans' Committee)

B.Sc. (Hons.) Horticulture					
S.N.	Sem.	Course Code	Title	Credit hrs.	Faculty
1.	I	BSC 1.1	Elementary Plant Biochemistry	2(1+1)	Dr. Diwakar Singh
2.	II	BSH 2.6	Plant Biochemistry	2(1+1)	Dr. Diwakar Singh
3.	III	BSC 3.6	Elementary Plant Biotechnology	2(1+1)	Dr. Chintan Kapadia
Total				6(3+3)	

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

S.N.	Sem.	Course Code	Title	Credit hrs.	Faculty
Horticulture Faculty (M.Sc.)					
1.	ODD	FSC 509	Biotechnology of Horticultural Crops	3(2+1)	Dr. Chintan Kapadia
2.	EVEN	FSC 604	Genomics and Bioinformatics In Horticulture	3(2+1)	Dr. Kiran Suthar
3.	ODD	FLA 605	Advances in Biochemistry and Biotechnology of Flowers	3(2+1)	Dr. Chintan Kapadia
Total				9(6+3)	
Horticulture Faculty (Ph.D)					
1.	EVEN	VSC 604	Biotechnology of Vegetable Crops	3(2+1)	Dr. Chintan Kapadia

Agriculture Faculty (M.Sc.)					
1.	Odd	MBB 501	Principles of Biotechnology	3(2+1)	Dr. Chintan Kapadia
2.	Odd	MBB 502	Fundamentals of Molecular Biology	3(3+0)	Dr. Kiran Suthar
3.	Even	MBB 503	Molecular Cell Biology	3(3+0)	Dr. Chintan Kapadia
4.	Even	MBB 504	Plant Tissue Culture & Genetic Transformation	3(1+2)	Dr. Chintan Kapadia
5.	Odd	MBB 505	Techniques in Molecular Biology I	3(0+3)	Dr. Chintan Kapadia
6.	Odd	MBB 507	Molecular Breeding	2(2+0)	Dr. Vipul Parekh
7.	Odd	MBB 508	Genomics and Proteomics	2(2+0)	Dr. Kiran Suthar
8.	Even	MBB 512	Immunology and Molecular Diagnostics	3(2+1)	Dr. Kiran Suthar
9.	Even	MBB 513	Nano-biotechnology	3(3+0)	Dr. Vipul Parekh
10.	Even	MBB 554	Principles of Microbiology	3(2+1)	Dr. Trupti Vyas
11.	Even	MBB 555	Introduction to Bioinformatics	3(2+1)	Dr. Kiran Suthar
12.	Odd	MBB 558	Molecular Farming	2(1+1)	Dr. Kiran Suthar
Total				33(23+10)	
Agriculture Faculty (Ph.D)					
1.	Even	MBB 601	Advances in Plant Molecular Biology	3(3+0)	Dr. Vipul Parekh
2.	Even	MBB 603	Advances in Microbial Biotechnology	3(3+0)	Dr. Chintan Kapadia
3.	Odd	MBB 604	Advances in Crop Biotechnology	3(3+0)	Dr. Vipul Parekh
4.	Odd	MBB 605	Advances in Functional Genomics and Proteomics	2(2+0)	Dr. Kiran Suthar
5.	Even	MBB 606	Commercial Plant Tissue culture	2(2+0)	Dr. Chintan Kapadia
Total				13(13+0)	

4.6.3 Research Activities of the Department

S.N.	Major thrust area	Specific Area
1.	Exploring microorganisms and their metabolites in Agriculture	1. Isolation and characterization of microorganisms useful for agro-waste management and bioremediation
		2. Application of microbes/consortium for plant/soil health management
		3. Production and utilization of industrially important enzymes/metabolites
2.	Molecular intervention for crop improvement	1. Molecular mapping and marker development in important crops of south Gujarat
		2. Molecular understanding of major biotic and abiotic stress tolerance in plants

		3. Exploiting Bioinformatics tools for strengthening agriculture research
3.	Biochemical approaches for crop quality improvement	1. Nutritional and phytochemical profiling of important crops of south Gujarat 2. Biochemical basis of biotic and abiotic stress tolerance mechanism in plants/crops. 3. Mitigation strategies for soil and water pollution.
4.	Application of Nanotechnology for sustainable agriculture	1. Development of engineered nanoparticles for pest, disease and nutrient management. 2. Application of nano materials for fortification.
5.	Physiological basis of crop response to biotic and abiotic stresses	1. Understanding crop response to climate change. 2. Micro-propagation of commercially important plants 3. Application of plant growth regulators (PGRs), chemicals and osmo-protectants on the physiology of crops

Research Schemes in Operation

S.N.	Name of Research Project	Budget Head	Year of Start	Type of Scheme	PI & Co-PI
1.	Strengthening of Department of Biotechnology	12097	2010-11	Plan	Dr. Rehana Niyaria
2.	Research in Tissue Culture	12014-05	1993 (The scheme transferred to the Dept. in the year 2016)	Plan	Dr. Chintan Kapadia

Objectives of scheme

1. Strengthening of Department of Biotechnology (BH: 12097)

- 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.

2. 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.

Research recommendations

1. **Farmers' recommendation:** Effect of exogenous application of brassinollide on yield and quality of tomato (*Solanum lycopersicum* L.).
2. **Scientific recommendation:** Amino acid profiling of pigeon pea genotypes developed by Agricultural Universities of Gujarat.

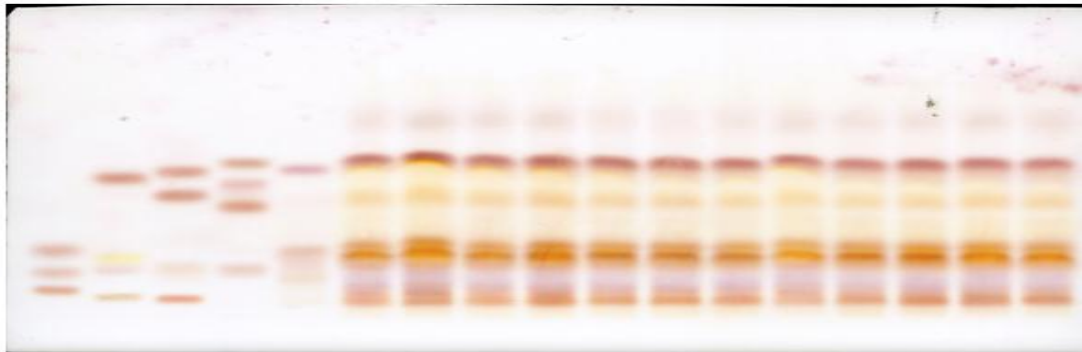
ભલામણનું શિર્ષક: બ્રાસિનોસ્ટેરોઈડનાં બાહ્યમક આપવાથી ટામેટાના ઉત્પાદન અને ગુણવત્તા ઉપર અસર
ભલામણની વિગત:
 દક્ષિણ ગુજરાતમાં ટામેટા જી.ટી.-૨ જાતનું વાવેતર કરવા વાળા ખેડૂતોને વધુ ઉત્પાદન અને ચોખ્ખો નફો મેળવવા માટે તેમજ લાઈકોપિન, કુલ શર્કરા અને લણણી પછી સાત દિવસ સુધીની ગુણવત્તા વધારવા માટે ટામેટાની ફેર રોપણી કર્યા પછી ૨૫, ૫૦ અને ૭૫ દિવસે બ્રાસિનોલાઈડનો છંટકાવ ૧૦ મિલીગ્રામ પ્રતિ ૧૦ લિટર કરવાની ભલામણ કરવામાં આવે છે.

છંટકાવનો દર	દિવસ-૧	દિવસ-૨	દિવસ-૩	દિવસ-૪	દિવસ-૫	દિવસ-૬	દિવસ-૭
ટી _૦ : છંટકાવ વગર							
ટી _૧ : પાણીનો છંટકાવ							
ટી _૨ : ૦.૫ પીપીએમ બ્રાસિનોલાઈડનો છંટકાવ							
ટી _૩ : ૧.૦ પીપીએમ બ્રાસિનોલાઈડનો છંટકાવ							
ટી _૪ : ૧.૫ પીપીએમ બ્રાસિનોલાઈડનો છંટકાવ							
ટી _૫ : ૨.૦ પીપીએમ બ્રાસિનોલાઈડનો છંટકાવ							

ઔરડાનાં તાપમાને સંગ્રહિત

બ્રાસિનોલાઈડ ની ટામેટાની સંગ્રહ ક્ષમતા ઉપર અસર

[ભલામણ વર્ષ ૨૦૨૦, પ્રાધ્યાપક અને વડા, પ્લાન્ટ મોલેક્યુલર બાયોલોજી અને બાયોટેકનોલોજી વિભાગ, અબાવકોન, ન.કુ.યુ., નવસારી]



M-1 M-2 M-3 M-4 M-5 V-1 V-2 V-3 V-4 V-5 V-6 V-7 V-8 V-9 V-10 V-11 V-12

Amino acid profiling of pigeon pea genotypes developed by Agricultural Universities of Gujarat.
 Scientific Recommendation: 2020

4.6.4 Infrastructure or Facilities available/created

S.N.	Infrastructure or Facilities created	Area/No.
1.	Ultra Bath Sonicator	1

4.6.5 Production of Planting Materials

S.N.	Planting material	Crop and Cultivar	Nos.
1.	Banana tissue culture plants	Banana (Grand Naine)	44845

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	BH
1.	Dr A. R. Kaswala	Associate Professor & Head	Ph.D. (SSAC)	01.10.2012	10.9	Organic Farming, Soil Fertility	12237
2.	Er N. M. Shah	Associate Professor	M.E Soil & Water Conservation Engg.	01.01.2006	36	Agri. Engg	12237
3.	Dr P. K. Dubey	Assistant Professor	Ph.D. (Agronomy)	12.03.2013	7.9	Organic Farming, Crop Production	12022
4.	Dr A. P. Italiya	Assistant Professor	Ph.D. (SSAC)	31.12.2012	8.4	Organic Farming, Soil Fertility	12237
5.	Dr Smita Gupta	Assistant Professor	Ph.D (Agri Met.)	27.08.2019	1.8	Agri. Meteorology	12237

4.7.2 Academic Activities of Department

List of Courses offered by the Department (As Per 5th Deans' Committee)

B.Sc. (Hons.) Horticulture						
S.N.	Sem.	Course Code	Title	Credit hrs.	Faculty	
1.	I	NRMH 1.1	Fundamentals of Soil Science	3(2+1)	Dr. A.P. Italiya	
2.	II	NRMH 2.2	Soil Fertility and Nutrient Management	2(1+1)	Dr. A.P. Italiya	
3.	II	NRMH 2.3	Water Management in Horticultural Crops	2(1+1)	Dr. P.K. Dubey	
4.	II	NRMH 2.4	Agro-meteorology and Climate Change	2(1+1)	Dr. Smita Gupta	
5.	III	NRMH 3.5	Organic Farming	2(1+1)	Dr. A.R. Kaswala	
6.	IV	NRMH 4.6	Farm Power and Machinery	2(1+1)	Er. N.M. Shah	
7.	IV	NRMH 4.7	Soil, Water and Plant Analysis	2(1+1)	Dr. A.R. Kaswala	
8.	V	NRMH 5.8	Weed Management in Horticultural Crops	2(1+1)	Dr. P.K. Dubey	
9.	VI	NRMH 6.9	Introduction to Major Field Crops	2(1+1)	Dr. P.K. Dubey	

10.	VI	NRMH 6.10	Introductory Agroforestry	2(1+1)	Dr. M.B. Tandel
11.	VI	NRMH 6.11	Environmental Studies and Disaster Management	3(2+1)	Dr. S. Viyol
Total				24(13+11)	

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

Horticulture Faculty (M.Sc. & Ph.D)					
S.N.	Sem.	Course Code	Title	Credit hrs.	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 Dr. A.R. Kaswala (P)
3.	Odd	PSMA 507	Organic Spices and Plantation Technology	3(2+1)	Dr. P.K. Dubey (P)
4.	Even	VSC 508	Organic Vegetable Production Technology	2(1+1)	Dr. A.P. Italiya (Th.) Dr. A.R. Kaswala (P)
5.	Odd	Soils 513 (Agri)	Management of Problematic Soils and Waters	3(2+1)	Dr. A.R. Kaswala
Total				11(6+5)	

4.7.3 Research Activities of the Department

Focus Area

The growth of organic agriculture in India as well as in the state is increasing. The area under certified organic farming in India during 2003-04 was 42,000 ha and it was increase almost 20 fold during the last 5 years. By March 2010 India has brought more than 4.48 million ha area under organic certification process. This is mainly due to (1) the continuous use of chemical fertilizers with unscientific soil and water management led to soil degradation and (2) Increase awareness among the people about health. Number of farmers has started organic farming on their own way as they have no technical knowhow. Further, the efforts are scanty and patchy. Looking to this, Navsari Agricultural University has started the work on this aspect and converted 12 ha land in to organic farming and plan scheme was also sanctioned and initiated the experiment. The experiment was started using banana, papaya, sugarcane, elephant foot yam, greater yam, onion, garlic and turmeric. The preliminary result was good. For enhancement of organic farming required to work on development of organic package of practices, production of quality organic manure and organic pest control module. This requires to strength the existing scheme so as to achieve following objectives,

- 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 asses 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 Schemes in Operation

S.N.	Name of Research Project	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-PIs: Dr. P.K. Dubey Dr. A.P. Italiya

Objectives of the scheme

- 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 asses 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

1. Effect of natural organic liquid on growth, yield and quality of green gram (*Vigna radiate* L.) under organic farming.

The farmers of south Gujarat heavy rainfall agro-climatic zone growing summer green gram are recommended to spray 1% enriched banana pseudostem sap three times (30, 45 and 60 DAS) for obtaining higher yield and net profit.



2. Effect of different organic sources on yield and quality of banana under certified organic farm.

For achieving higher yield as well as net income, the farmers of South Gujarat growing banana, variety Grand Nain, organically are recommended to apply 150g N/plant i.e. 14.7 kg NADEP compost (containing 1.02 % N) in three equal splits at basal, 30 and 60 DAP, along with Azotobacter @ 5 l/ha + KMB @ 5 l/ha + PSB @ 5 l/ha at planting and green manuring two times.

Detail management:

- Planting: Prepare the pit at 1.5 m x 1.2 m x 2.4 m distance and apply the first split of NADEP compost (1.02% N) @ 4.9 kg per pit along with *Azotobacter*, PSB and KMB @ 5.0 l/ha each at the time of planting. Apply second and third split application of NADEP compost @ 4.9 kg/plant at 30 and 60 DAP, respectively.
- Grow dhaincha as green manure continuously two times in between the wider spaces of banana. First at the time of planting and subsequently second after incorporation of first green manuring and incorporate it in soil at 45 DAS.



3. Agronomical evaluation of different paddy varieties under organic farming

The farmers of south Gujarat heavy rainfall agro-climatic zone-I growing rice (variety GNR-7 or GNR-3) organically are recommended to apply 100% RDN (100 kg/ha) through NADEP compost for achieving higher yield and net profit.

Detail management

- Before transplanting, apply 100 kg N/ha through NADEP compost (apply 8.9 t/ha NADEP compost containing 1.12%N).
- Before transplanting, give root dipping treatment to the seedling with *Azospirillum* and PSB each of 0.5% and then transplant seedling at 20cm x 15cm spacing.
- Apply soil application of *jeevamrut* @ 1500 lit/ha in three equal splits at 15, 30 and 45 DAT.
- Spray of noval organic liquid nutrient @ 1% in three times at 15, 45 and 60 DAT.

As a preventive measures and need based, alternative spray of 0.20% neem oil and 4% neemastra should be done to control disease and pests.



Approved New Technical Programmes

S.N.	Title of NTP	Name of PI/Co-PI/Associate
1.	Effect of different organic nutrient sources on summer black gram (<i>Vigna mungo</i> L. Hepper)	PI: Dr. P.K. Dubey Co-PIs: Dr. A.R. Kaswala, Dr. A. P. Italiya
2.	Influence of different organics on fruiting, yield and quality of mango (<i>Mangifera indica</i> L.) cv. Kesar	PI: Dr. A.R. Kaswala Co-PIs: Dr. P.K. Dubey, Dr. A.P. Italiya Associate: Dr. B.M. Tandel
3.	Effect of manure and foliar spray of different liquid organic formulations on growth, yield and quality of banana	PI: Dr. A.P. Italiya Co-PIs: Dr. A.R. Kaswala, Dr. P.K. Dubey
4.	Analysis of medium range weather forecasting under South Gujarat region	PI: Dr. Smita Gupta Co-PIs: Dr. A.R. Kaswala,
5.	Evaluation of efficacy of two epigeic earthworm species for vermicomposting using different substrates	PI: Dr. H.M. Patel Co-PIs: Dr. A.R. Kaswala, Dr. A.P. Italiya

4.7.4 Extension Activities of Department Participation in *Krishi Mahotsava*

S.N.	Name of place	Date	Name of Faculty members	Name of Topic
1.	Krushvi Vigyan Kendra (Narmada) Navsari Agricultural University, Dediapada	09.03.2021	Dr. A.R. Kaswala	Organic Farming

4.7.5 Infrastructure or Facilities available/created Department

S.N.	Infrastructure or Facilities available	Area/No.
1	UG Laboratory	945 sq ft
2	PG Laboratory	810 sq ft

Farm

S.N.	Infrastructure or Facilities available	Area/No.
1	Office building	3575 sq ft
2	Museum on Organic farming	550 sq ft



Office Building at Farm



Museum



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	21	Agril. Ext. Education	12237
2.	Dr. A. K. Leua	Associate Professor	Ph.D.	09.04.2008	15	Agril. Economics	12237
3.	Mr. H. N. Chhatrola	Assistant Professor	M.Sc.	13.08.1987	33	Agril. Statistics	12237
4.	Dr. D. J. Chaudhari	Assistant Professor	Ph.D.	13.01.2016	05	Agril. Economics	12237
5.	Mr. G. V. Savani	Assistant Professor	M.A.	07.01.1998	23	English	11126-5
6.	Mr. A. P. Chaudhary	Assistant Professor	M.Sc. (Agri.)	05.09.2019	01	Agril. Statistics	12237
7.	Dr. V. S. Thorat	Assistant Professor	Ph.D.	14.05.2013	08	Agril. Economics	12237

4.8.2 Academic Activities

List of Courses Offered by Agril. Economics (As Per 5th Deans' Committee)

B.Sc. (Hons.) Horticulture					
S. N.	Sem.	Course Code	Title	Credit hrs	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
Total				20(12+8)	

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

M.Sc. & Ph.D. Horticulture					
S. N.	Sem.	Course Code	Title	Credit hrs.	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. AlokShrivastav/ 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
Sub-total				15(10+5)	
Compulsory Non-Credit Courses (M.Sc. and Ph.D. Horticulture)					
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
Sub-Total				2(1+1)	
Total				17(11+6)	

4.8.3 Research Activities

Approved New Technical Programmes

S.N.	Title of NTP	Name of PI/Co-PI/Associate
1.	Measuring technical efficiency of paddy in South Gujarat	1. Dr. Alpesh Leua, ACHF, NAU, Navsari 2. Mr. Gautam Parmar, AABMI, NAU, Navsari 3. Dr. Swati Sharma, AABMI, NAU, Navsari 4. Dr. Ruchira Shukla, AABMI, NAU, Navsari
2.	Growth and instability analysis of area and production in forestry sector of Gujarat	1. Dr. D.J. Chaudhari, ACHF, NAU, Navsari 2. Mr. Amit Lathiya, Planning Cell, NAU, Navsari 3. Mr. A.P. Chaudhary, ACHF, NAU, Navsari

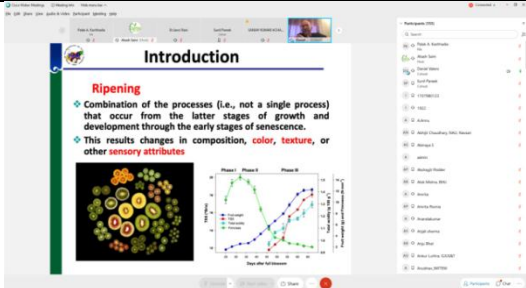
4.8.4 Infrastructure or Facilities available/created

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

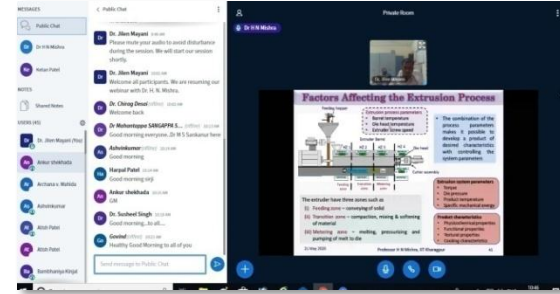
5. SEMINAR/CONFERENCE/WORKSHOP/TRAINING

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

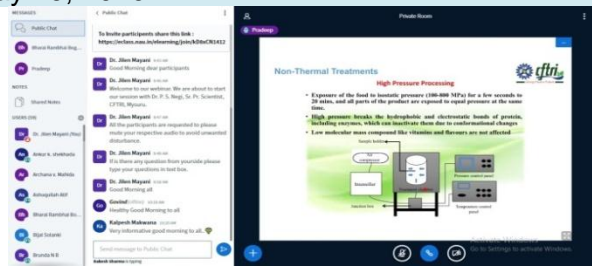
S. N.	Type of Event	Title of Event	Days/Duration
1.			
2.	Webinar	Novel Methods of Food Product and Process Development	May 19, 2020
3.	Webinar	"Non-thermal Processing of Liquid Foods"	May 23, 2020
4.	Training	Emerging Technologies In Postharvest Management And Value Addition In Horticultural Commodities	November 2 to 6, 2020
5.	Webinar	Career Opportunities in Floriculture	August 16, 2020
6.	Webinar	Edible Landscape and Future Food Systems for Healthy Diets.	August 30, 2020
7.	Webinar	Unblocking the Future through Emerging Precision Farming and Post Harvest Technologies	August 30, 2020
8.	Distinguished Online Guest Lecture from International Faculties	Edible Landscape and Future Food Systems for Healthy Diets by Dr.ChandrashekharBiradar	30/08/2020
9.	Webinar	Pulse Electric Field for Food Processing Technology	September 07, 2020
10.	Webinar	Edible Films and Coatings to Preserve Horticultural Crops	September 07, 2020
11.	Online Workshop	Online Workshop on HPTLC Technique and its Applications in Agriculture	November 03, 2020
12.	Webinar	Webinar Series (2020-21) under Student READY-EXPERIENTIAL LEARNING PROGRAM) (Rural Entrepreneurship Awareness Development Yojana)	November 10 to December 03, 2020
13.	Webinar	Entrepreneurship Development in Food Processing Sector	January 30, 2021
14.	Training	21 days virtual National Level Higher Training on "Secondary Agriculture for Economical, Food-Nutritional and Livelihood Security"	January 16 to February 05, 2021
15.	Webinar	Post Harvest Management, Processing and Waste Utilization for Value Addition of Horticultural Crops	January 28 to 30, 2021
16.	Webinar	Novel Product Development Opportunities from Horticultural Crops during COVID Era	February 20, 2021
17.	Webinar	Export Oriented Management of Fresh Fruits and Vegetables	March 06, 2021



5 days virtual training on November 2-6, 2020



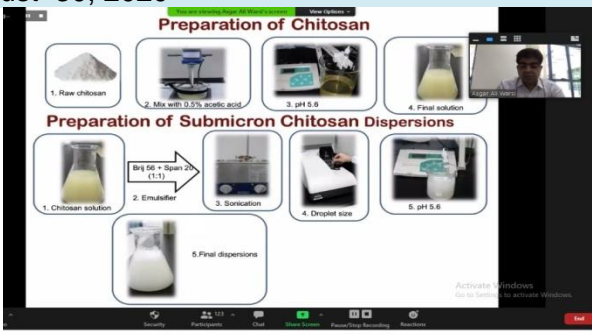
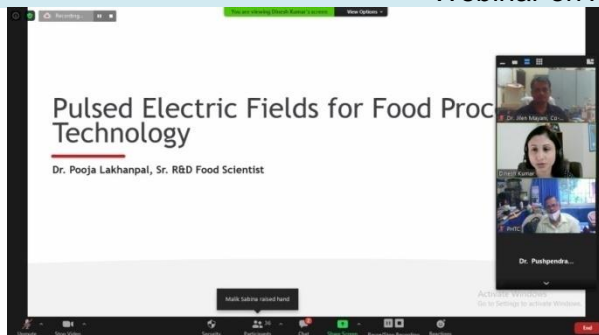
Webinar on May 19, 2020



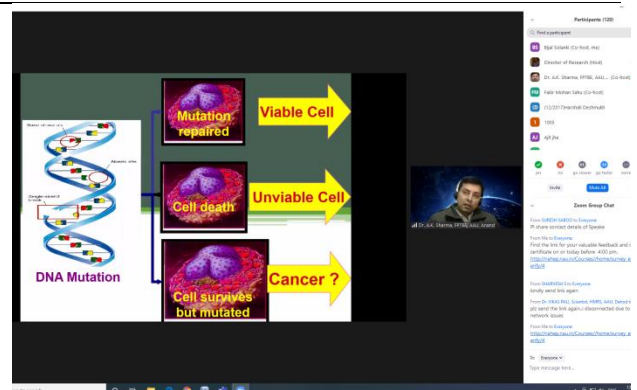
Webinar on May 23, 2020



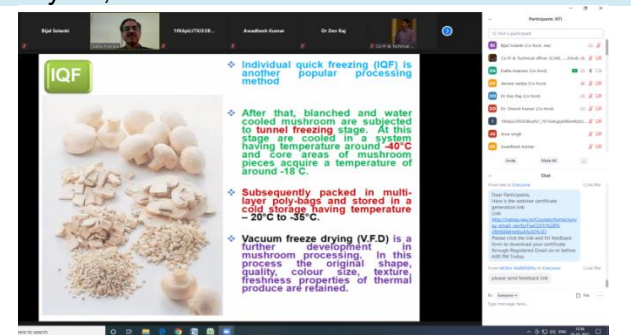
Webinar on August 30, 2020



Webinar on September 07, 2020



Webinar on January 30, 2021



Webinar on February 20, 2021



Webinar on March 06, 2021

Online Workshop on HPTLC Technique and its Applications in Agriculture

Date: 3rd November, 2020 Time: 10:00 to 13:00 hrs

Key Speakers

Dr. Sankat Mallick, Ph.D.
Assistant Manager (Development),
Anchrom Enterprises (I) Pvt. Ltd., Mumbai

Dr. Divakar Singh, Ph.D.
Assistant Professor (Biochemistry),
Dept. of PMBB, ACHF, NAU, Navsari

CHAIRMAN
Dr. P. K. Shrivastava
Chair and Managing
ACHF, NAU, Navsari

Organized by

Department of Plant Molecular Biology and Biotechnology,
ASPEE College of Horticulture and Forestry,
Navsari Agricultural University, Navsari, Gujarat

In association with
Anchrom India Pvt. Ltd, Mumbai

Organizing committee

Organizing Secretary
Dr. K. P. Suthar
Assistant Professor
Dept. of PMBB, ACHF, NAU, Navsari

Co-organizing Secretary
Dr. Divakar Singh
Assistant Professor
Dept. of PMBB, ACHF, NAU, Navsari

Co-organizing Secretary
Dr. C.V. Kapadia
Assistant Professor
Dept. of PMBB, ACHF, NAU, Navsari

President
Dr. B. R. Chaudhary
Director of Research
NAU, Navsari

Link for Registration
<https://forms.gle/5EMQC1GanyFjgA9>

To Join Workshop through Zooms
<https://us02zoom.us/j/8328272179>
Meeting ID: 832 828 7731 Password: 539064

Contact detail
E-mail: ksuthar@achf.nau.ac.in
Mobile No: +91 9879330838

Online Workshop on March 03, 2020

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

S. N.	Faculty	Event	Title of Event	Date/ Duration	Organizers
1.	Dr. V. K. Parmar	Webinar	Market Intelligence & Export Potential in Horticultural Crops	14/10/2020	COH, SDAU, Jagudan
2.	Dr. V. K. Parmar	Webinar	Recent Trends in Floriculture and Landscape Industry	05/09/2020	COH, SDAU, Jagudan
3.	Dr. V. K. Parmar	Webinar	Sajiv Kheti-Takau krushino Vagnanik Abhigam	25/11/2020	Department of Agronomy, COA, NAU, Bharuch
4.	Dr. R. V. Tank	Webinar	Recent advances in underutilized fruits	05/09/2020	College of Horticulture, SDAU, Jagudan
5.	Dr. R. V. Tank	Webinar	Underutilized fruits: Converting wastelands in to goldmine	30/09/2020	Department of Horticulture, COA, NAU, Bharuch
6.	Dr. Y. N. Tandel	Seminar	Recent Advances in Mango Production	15-16/01/2021	COH, Bidar (University of Horticultural Sciences, Bagalkot), Karnataka
7.	Dr. P. P. Bhalerao	Webinar	Entrepreneurship opportunities through alternate horticulture based farming system	16/07/2020	RVSKVV, Gwalior, MP
8.	Dr. P. P. Bhalerao	Webinar	Recent advances in seed spices production	04/08/2020	College of Horticulture, SDAU, Jagudan
9.	Dr. P. P. Bhalerao	Webinar	Boosting immunity through horticulture	01-09/09/2020	Society for Horticultural Research and Development Ghaziabad, UP
10.	Dr. P. P. Bhalerao	Webinar	Recent advances in underutilized fruits	05/09/2020	College of Horticulture, SDAU, Jagudan
11.	Dr. P. P. Bhalerao	Webinar	Underutilized fruits: Converting wastelands in to goldmine	30/09/2020	Department of Horticulture, COA, NAU, Bharuch
12.	Dr. P. P. Bhalerao	Webinar	Hi-tech horticulture	07/10/2020	BCKV, West Bengal
13.	Dr. P. P. Bhalerao	Webinar	Market Intelligence & Export Potential in Horticultural Crops	14/10/2020	College of Horticulture, SDAU, Jagudan
14.	Dr. P. P. Bhalerao	Webinar	Recent advances in mango production	5-16/01/2021	COH, UHS, Bagalkot, Bidar

15.	Mr. K. A. Patel	Seminar	Recent Advances in Mango Production	15-16/01/2021	COH, Bidar (University of Horticultural Sciences, Bagalkot), Karnataka
16.	Mrs. Dixita Prajapati	Seminar	Recent Advances in Mango Production	15-16/01/2021	COH, Bidar (University of Horticultural Sciences, Bagalkot), Karnataka
17.	Mrs. Dixita Prajapati	Seminar	Impact of climate change on Agriculture	28/10/2020	Department of Agronomy, COA, NAU, Bharuch
18.	Mrs. Dixita Prajapati	Seminar	Boosting immunity through Horticulture	01-09/09/2020	Society for Horticultural Research and Development, Ghaziabad, UP
19.	Mrs. Dixita Prajapati	Seminar	Shiyadupakomaposha nvyavsthapan	09/11/2020	AAU, Anand
20.	Mrs. Dixita Prajapati	Seminar	Commodity Derivatives Market	25/06/2020	NAU, Navsari
21.	Mrs. Dixita Prajapati	Seminar	Agricultural Marketing amidst Covid-19: Issues and Implications	30/06/2020	NAU, Navsari
22.	Dr. Tulsi. D. Gurjar	Seminar	Market Intelligence & Export Potential in Horticultural Crops	14/10/2020	COH, SDAU, Jagudan
23.	Dr. Tulsi. D. Gurjar	Seminar	Recent Trends in Floriculture and Landscape Industry	15/10/2020	COH, SDAU, Jagudan
24.	Dr. Tulsi. D. Gurjar	Seminar	Recent Advances in Underutilized Fruits	05/09/2020	COH, SDAU, Jagudan
25.	Dr. Tulsi. D. Gurjar	Seminar	Underutilized Fruits: Converting Wasteland into Goldmine	30/09/2020	COA, NAU, Bharuch
26.	Dr. Tulsi. D. Gurjar	Seminar	Genomic Selection in Crop Plants	24/10/2020	PLANTGENOMIA, Spanish National Research Council (CSIC)
27.	Dr. Tulsi. D. Gurjar	Seminar	Recent Advances in Mango Production	15-16/01/2021	COH, Bidar (University of Horticultural Sciences, Bagalkot), Karnataka
28.	Mrs. Bhoomika Patel	Seminar	Research Advances in kiwi production	31/07/2020	Department of Horticulture, Annamalai University

29.	Mrs. Bhoomika Patel	Seminar	Scope of Agricultural Entrepreneurship Development	19-21/08/2020	Department of Agronomy, COA, NAU, Bharuch
30.	Mrs. Bhoomika Patel	Seminar	Underutilized Fruits: Converting Wasteland into Goldmine	30/09/2020	COA, NAU, Bharuch
31.	Dr. T. R. Ahlawat	Training	Water Quantity and Quality Aspects	20-21/10/2020	CSIR-NEERI, Nagpur
32.	Dr. T. R. Ahlawat	Training	Natural Resins and Gums: Production, Processing, Value Addition and Marketing.	20-30/07/2020	IINRG, Ranchi
33.	Dr. T. R. Ahlawat	Training	Emerging Technologies in Postharvest Management and Value Addition in Horticultural Commodities	15-19/06/2020	NIFTEM, Sonepat
34.	Dr. Y. N. Tandel	Training	Emerging trends in seed production technology and quality control framework for effective seed supply chain of horticulture crops	28/12/2020 to 06/01/2021	COH, Bidar (University of Horticultural Sciences, Bagalkot), Karnataka
35.	Mrs. Dixita Prajapati	Training	CAD for Landscaping (AutoCAD, ArchiCAD, 3D Max & Photoshop)	31/08/2020 to 09/09/2020	College of Horticulture, Bagalkot
36.	Mrs. Dixita Prajapati	Training	DIGICULT-Spreading Digital Culture to the Library Professional, Readers and Researchers	08/06/2020 to 12/06/2020	NAU, Navsari
37.	Mrs. Bhoomika Patel	Training	CAD for Landscaping (AutoCAD, ArchiCAD, 3D Max & Photoshop)	31/08/2020 to 09/09/2020	COH, Bagalkot in association with image computers, Gokak, Belagavi
38.	Mrs. Bhoomika Patel	Training	National level Higher Training on "Sustainable Development of Secondary Agriculture: Economical, Food-Nutritional and Livelihood Perspective"	16/01/2021 to 05/02/2021	Centre for Advanced Agricultural Science and Technology on Secondary Agriculture, CAAST Secretariat Directorate of Research, NAU, Navsari
39.	Dr. R. V.	Workshop	HTPLC technique and	03/11/2020	Department of plant

	Tank		its applications in agriculture		molecular biology and biotechnology, ACHF, NAU, Navsari
40.	Prof. Dixita Prajapati	Workshop	HTPLC technique and its applications in agriculture	03/11/2020	Department of plant molecular biology and biotechnology, ACHF, NAU, Navsari
41.	Dr. S. N. Saravaiya	Seminar	“ Role of Research & Education in Atmanirbhar Krishi”	06/10/2020	Through web –on-air –zoom organized by Executive Chairman national council for climate change Sustainable Development and public leadership (NCCSD) Ahmedabad 3800014
42.	Dr. S. N. Saravaiya	Webinar	Harnessing the Potential of Tropical Tuber Crops Under Changing Climate	27/10/2020	Online CTCRI, Thiruvananthapuram
43.	Dr. Sanjeev Kumar	Webinar	International Webinar (NL-INDIA CSA) on Greenhouses-Sustainable Intensification	08/07/2020	RVO Webinars (Rijksdienst Voor Ondernemend Nederland)
44.	Dr. Sanjeev Kumar	Webinar	Management of Biotic and Abiotic Stresses in Protected Agriculture	22/09/2020 to 24/09/2020	Centre of Advanced Agricultural Science & Technology on Protected Agriculture and Natural Farming, CSKHPKV, Palampur
45.	Dr. Sanjeev Kumar	Training	Plant Health Management in Protected cultivation	15/03/2021 to 19/03/2021	National Institute of Plant Health Management, Department of Agriculture, Cooperation and Farmers' Welfare, Ministry of Agriculture & Farmers Welfare, Gol, Rajendra Nagar, Hyderabad
46.	Dr. Himani B. Patel	Webinar	Harnessing the Potential of Tropical Tuber Crops under Changing Climate	27/10/2020	CTCRI, Kerala
47.	Dr. Himani B. Patel	Webinar	National Webinar and challenges	11-13/11/2020	KAU & ISVS, India

			opportunities of vegetable production in warm humid tropics		
48.	Dr. Himani B. Patel	Webinar Series	Tuber crops day celebrations 2020 : Webinar Series 1	07/12/2020	Indian society for root crops & ICAR-CTCRI
49.	Dr. Himani B. Patel	Workshop	International Workshop on Root Architecture Imaging and Analysis for Tropical Tuber Crops	20-22/01/2021	CTCRI, Kerala
50.	Dr.J.M. Vashi	Training	Sustainable Development of Secondary Agriculture : Economical, Food-Nutritional and Livelihood Perspective	16/01/2021 to 05/02/2021	Centre for Advanced Agricultural Science & Technology, Navsari Agricultural University., Navsari.
51.	Dr A.I. Patel	Webinar	Covid19 and Recession - How can retailers manage this deadly combination?	22/05/2020	Pearson India
52.	Dr A.I. Patel	Webinar	Agricultural Marketing Amidst Covid-19: Issues and Implications	30/06/2020	AAMI, NAU, Navsari
53.	Dr A.I. Patel	Webinar	Genomic assisted breeding for chickpea improvement	01/07/2020	Bioingene
54.	Dr A.I. Patel	Webinar	Role of rootstock in fruit and vegetable crops for improving yield and quality	04-05/07/2020	SAAHAS
55.	Dr A.I. Patel	Webinar	Development of climate change resilient rice varieties through molecular breeding	06/07/2020	Bioingene
56.	Dr A.I. Patel	Webinar	Development of genetic and genomic resources in foxtail millet: Progress and prospects	08/07/2020	Bioingene
57.	Dr A.I. Patel	Webinar	Journey from Biofortification in food crops to including nutritional traits in varietal identification and release in Pearl millet	09/07/2020	Bioingene

58.	Dr A.I. Patel	Webinar	Understanding Plant-Virus Interaction to Identify Novel Antiviral Weapon in The Plant Arsenal	13/07/2020	Bioingene
59.	Dr A.I. Patel	Webinar	Plant Viral Diseases: Economic Implications & Their Management	15/07/2020	Bioingene
60.	Dr A.I. Patel	Webinar	Role of reactive oxygen species and antioxidant machinery in crop plants	17/07/2020	Bioingene
61.	Dr A.I. Patel	Webinar	Addressing Covid-19 impact on food security, nutrition and future livelihood : A special focus to Gujarat	15-16/07/2020	COA, NAU, Bharuch
62.	Dr A.I. Patel	Webinar	Improvement of storage, stability and productivity of rice through genetic engineering	18/07/2020	Bioingene
63.	Dr A.I. Patel	Webinar	Climate Smart Rice Hybrids	21/07/2020	Bioingene
64.	Dr A.I. Patel	Webinar	New Normal in Floriculture	23/07/2020	Annamalai University
65.	Dr A.I. Patel	Webinar	CRISPR-Cas Precision Genome Engineering	24/07/2020	Bioingene
66.	Dr A.I. Patel	E-Workshop	Agri-innovations and intellectual property rights	23-26/07/2020	Parul University
67.	Dr A.I. Patel	Webinar	ADVANCED SUSTAINABILITY ASSESSMENT	28/07/2020	P P Savani University
68.	Dr A.I. Patel	Webinar	Medicinal Plants and Folk Healing	29/07/2020	J.N.C., Pashighat
69.	Dr A.I. Patel	Webinar	Health foods from fruit and Vegetables – An imminent need	01/08/2020	Annamalai University
70.	Dr A.I. Patel	Webinar	Mushroom Cultivation Techniques	04/08/2020	Horticulture Training Institute Uchani Karnal (Haryana)
71.	Dr A.I. Patel	Webinar	Start up - A Stepping Stone to Attain Self Reliance and Sustainability in Agricultural Sciences	06/08/2020	SDAU, Dantiwada

72.	Dr A.I. Patel	Webinar	Mainstreaming underutilized crops: The story of foxtail millet	06/08/2020	Bioingene
73.	Dr A.I. Patel	Web Conference	Biodiversity in Vegetable Crops for Healthier Life and Livelihood	27-28/08/2020	Bihar Agricultural University, Sabour
74.	Dr A.I. Patel	Webinar	Recent advances in underutilized fruits	05/09/2020	SDAU, Dantiwada
75.	Dr A.I. Patel	Webinar	Underutilized fruits : Converting Wastelands into Goldmine	30/09/2020	COA, NAU, Bharuch
76.	Dr A.I. Patel	Webinar	Nutritional Enhancement of vegetable crops with major emphasis on Broccoli- a new cole crop in Indi	02/10/2020	BSHF
77.	Dr A.I. Patel	Online Faculty Development Programme	RESEARCH METHODOLOGY	05-11/10/2020	P P Savani University
78.	Dr A.I. Patel	Webinar	Shiyalu Pakoma Poshan Vyavshtha	09/11/2020	AAU, Anand
79.	Dr A.I. Patel	Webinar	New Systems of Vegetable Production	10/10/2020	BSHF
80.	Dr A.I. Patel	Webinar	Market intelligence & Export Potential in Horticulture Sector	14/10/2020	SDAU, Dantiwada
81.	Dr A.I. Patel	Webinar	International Webinar	24/10/2020	Plantgenomia
82.	Dr A.I. Patel	Online Workshop	HPTLC Technique and its Applications in Agriculture	03/11/2020	ACHF, NAU
83.	Dr A.I. Patel	Webinar	Sajiv Khetima Pak Savrakshan	27/11/2020	AAU, Anand
84.	Dr A.I. Patel	Webinar	Harnessing the potential of tropical tuber crops under climate change	27/11/2020	ICAR-CTCRI
85.	Dr A.I. Patel	Webinar	Impact of climate change on Agriculture	28/11/2020	COA, NAU, Bharuch
86.	Ms. Hetal R. Rathod	Training	Sustainable Development of Secondary Agriculture: Economical, Food-Nutritional and	16/01/2021 to 05/02/2021	Centre for Advanced Agricultural Science and Technology of Navsari Agricultural University, Navsari

			Livelihood Perspective		Gujarat National Agricultural Higher Education Project (NAHEP) of ICAR, New Delhi
87.	Dr.Dipal S. Bhatt	Webinar	Protected Cultivation in North East India: Prospects, Issues and Solutions	11/07/2020	Central Institute of Horticulture, DAC & FW, Govt. Of India, Nagaland
88.	Dr.Dipal S. Bhatt	Webinar	Addressing COVID-19 impact on food security, nutrition and future livelihood: A special focus to Gujarat	15-16/07/2020	College of Agriculture, Navsari Agricultural University, Campus Bharuch
89.	Dr.Sudha Patil	Webinar	Addressing COVID-19 impact on food security, nutrition and future livelihood: A special focus to Gujarat	15-16/07/2020	College of Agriculture, Navsari Agricultural University, Campus Bharuch
89.	Dr.Dipal S. Bhatt	Webinar	Recent Trends in Landscape Industry	17/07/2020	Department of Horticulture, Faculty of Agriculture, Annamalai University
90.	Dr.Sudha Patil	Webinar	Recent Trends in Landscape Industry	17/07/2020	Department of Horticulture, Faculty of Agriculture, Annamalai University
91.	Dr. M. A. Patel	Webinar	Recent Trends in Landscape Industry	17/07/2020	Department of Horticulture, Faculty of Agriculture, Annamalai University
92.	Dr.Dipal S. Bhatt	Webinar	Strategies to Combat Recent Challenges in Floriculture Industry	18/07/2020	Department of Horticulture, Faculty of Agriculture, Annamalai University
93.	Dr.Sudha Patil	Webinar	Landscape Tools for Smart Societies	19/07/2020	Department of Horticulture, Faculty of Agriculture, Annamalai University
94.	Dr.Dipal S. Bhatt	Webinar	Modern Techniques of Open Field Flower Production	28/07/2020	Horticulture Training Institute Uchani, Karnal, Haryana
95.	Dr.Sudha Patil	Webinar	Modern Techniques of Open Field Flower Production	28/07/2020	Horticulture Training Institute Uchani, Karnal, Haryana
96.	Dr.Dipal S. Bhatt	Webinar	Health Foods from Fruits & Vegetables-	01/08/2020	Department of Horticulture, Faculty

			An Imminent Need		of Agriculture, Annamalai University
97.	Dr.Dipal S. Bhatt	Webinar	Neutraceuticals in flower crops	04/08/2020	Department of Horticulture, Faculty of Agriculture, Annamalai University
98.	Dr.Sudha Patil	Webinar	Neutraceuticals in flower crops	04/08/2020	Department of Horticulture, Faculty of Agriculture, Annamalai University
99.	Dr.Dipal S. Bhatt	Training	National level Online training on CAD for Landscaping (Auto CAD, Archi CAD, 3D Max & Photoshop)	31/08/2020 to 09/09/2020	Department of Floriculture & Landscape Architecture, College of Horticulture, University of Horticultural Science, Bagalkote, Karnataka
100.	Dr.Sudha Patil	Training	National level Online training on CAD for Landscaping (Auto CAD, Archi CAD, 3D Max & Photoshop)	31/08/2020 to 09/09/2020	Department of Floriculture & Landscape Architecture, College of Horticulture, University of Horticultural Science, Bagalkote, Karnataka
101.	Dr.Sudha Patil	Webinar	Hi-Tech Horticulture	16-17/05/2020	Society for Advancement in Agriculture, Horticulture and Allied Sectors
102.	Dr.Sudha Patil	Webinar	Harnessing the Potential of Indigenous Ornamentals: Post Covid 19 Pandemic	18/06/2020	Horticulture Science Division ICAR- New Delhi and ICAR- Directorate of Floriculture Research, Pune
103.	Dr.Sudha Patil	Webinar	New Normal in Floriculture	23/07/2020	Department of Horticulture, Faculty of Agriculture, Annamalai University
104.	Dr.Sudha Patil	Webinar	Orchids- The Money Spinning Crop	27/07/2020	Horticulture Training Institute Uchani, Karnal, Haryana
105.	Dr.Sudha Patil	Webinar	Flower Seed Production- Challenges and Opportunities	05/08/2020	Department of Horticulture, Faculty of Agriculture, Annamalai University
106.	Dr. Dev	Webinar	Role of Irradiation on	03/10/2020	BAARC

	Raj		Breeding and processing		
107.	Dr. Dev Raj	Webinar	FDP on 3D printing and Design	09-13/09/2020	IIT, Dharwad
108.	Dr. Dev Raj	Webinar	Master Trainer Training	17-21/11/2020	IIFPT Thanjavur
109.	Dr. Dev Raj	Training	ISO 22000:2018 Food Safety Management system: Requirement for any organization in the food chain	1 day (12/1/2021)	Food Safety and Quality Solutions, Pune
110.	Er. P. S. Pandit	Webinar	Entrepreneurship opportunity in processing of F & V of arid region	02/09/2020	Dept. Of PHT, CoH, SDAU, Jagudan, Gujarat
111.	Er. P. S. Pandit	Webinar	Advanced agricultural Engineering technology for sustainable agriculture	04-05/08/2020)	College of Agril. Engg. UAS, Raichur, Karnataka
112.	Er. P. S. Pandit	Training	ISO 22000:2018 Food Safety Management system: Requirement for any organization in the food chain	12/01/2021	Food Safety and Quality Solutions, Pune
113.	Er. P. S. Pandit	Training	Training for Master Trainers in Fruits and Vegetables processing area of PM-FME scheme, MFPI, GOI	01-15/07/2020	IIFPT, Thanjavur, TN
114.	Dr. J. M. Mayani	Webinar	Webinar on "Beyond Technical Competence: Enhancing Your Career as A Food Safety Professional"	09/04/2020	Food Safety and Quality Solutions, Pune
115.	Dr. J. M. Mayani	Webinar	Webinar on "GFSI Food Safety Certification Schemes: At a Glance"	10/04/2020	
116.	Dr. J. M. Mayani	Webinar	Webinar on "Overview of BRCGS (Food Safety) Issue-8 Food Safety Certification Scheme"	11/04/2020	
117.	Dr. J. M. Mayani	Webinar	Webinar on "Overview of BRCGS (Packaging Materials) Issue-6 Certification Scheme"	12/04/2020	

118.	Dr. J. M. Mayani	Webinar	Webinar on "Auditing In Food Industries"	13/04/2020	
119.	Dr. J. M. Mayani	Webinar	Webinar on "FSSC 22000 Version-5 Additional Requirements"	15/04/2020	
120.	Dr. J. M. Mayani	Webinar	Webinar on "GMP as part of Various Food Certification Schemes"	16/04/2020	
121.	Dr. J. M. Mayani	Webinar	Webinar on 'Futuristic Approaches in Organic Horticulture'	01/10/2020	UHS, Bagalkot
122.	Dr. J. M. Mayani	Webinar	National Webinar on " Post COVID-19 Agribusiness: Challenges and Opportunities "	13-14/06/2020	JAU, Junagadh
123.	Dr. J. M. Mayani	Webinar	"National Webinar" entitled "Revitalizing Horticulture through Strategic Postharvest Intervention"	28/08/2020	Uttar Banga KrishiViswavidyalaya, Pundibari, Cooch Behar, West Bengal, India
124.	Dr. J. M. Mayani	Webinar	National Webinar on Boosting Immunity through Horticulture	01-09/09/2020	Society for Horticultural Research and Development Ghaziabad, UP, India
125.	Dr. J. M. Mayani	Conference	International e-Conference on "Novel Nutrition Approach and Emerging Opportunities to Sustain in Pandemic Scenario"	15-18/06/2020	Department of Nutrition and Dietetics, Mount Carmel College, Autonomous, Bengaluru
126.	Dr. J. M. Mayani	Webinar	Webinar on 'Food Protection - Science and Strategies'	31/05/2020	Association of Food Scientists and Technologists (India)
127.	Dr. J. M. Mayani	Webinar	Webinar on 'Role of dietary spices in human health and wellness'	16/05/2020	
128.	Dr. J. M. Mayani	Training	Faculty Development Programme on "Emerging Technologies in	02-06/11/2020	NIFTEM, Sonipet Haryana.

			Postharvest Management & Value Addition in Horticultural Commodities”		
129.	Dr. J. M. Mayani	Training	National Level Faculty Development Training Programme- DIGICULT-Spreading Digital Culture to the Library Professional, Readers and Researchers	08-12/06/2020	NAU, Navsari
130.	Dr. J. M. Mayani	Training	21 Days Training Sustainable Development of Secondary Agriculture: Economical, Food-Nutritional and livelihood Perspective	16/01/2021 to 5/02/2021	NAU, Navsari
131.	Er. A. K. Senapati	Webinar	Agricultural Marketing Amidst Covid-19: Issues and Implications”	30/06/2020	AABMI, NAU, Navsari
132.	Er. A. K. Senapati	Webinar	Addressing Covid -19 impact on food security ,nutrition and future livelihood	15-16/07/2020	NAU, Bharuch
133.	Er. A. K. Senapati	Webinar	Farmers Producers organization and commodity market	27-28/07/2020	AAU, Anand
134.	Er. A. K. Senapati	Webinar	Scope of food technology in light of Covid -19 in online mode	06/09/2020	NIT, Rourkela
135.	Er. A. K. Senapati	Webinar	Market intelligence and export potential in horticulture sector	06/10//2020	SDAU, Jagudan
136.	Er. A. K. Senapati	Webinar	Diagnostic and remedial measures for common error in statistics	20-21/10/2020	NAU, Bharuch
137.	Er. A. K. Senapati	Webinar	HPTLC Technique and its Applications in Agriculture	03/11/ 2020	Department of Plant Molecular Biology and Biotechnology, ACHF, NAU, Navsari
138.	Er. A. K. Senapati	Webinar	Design , development and improved biomass	05/11/2020	SPRERI, Ananad

			cook stove in online mode		
139.	Er. A. K. Senapati	Webinar	Export Oriented Management of Fresh Fruits and Vegetables"	06/03/2021	NAHEP-CAAST, NAU, Navsari, Gujarat, India
140.	Er. A. K. Senapati	Training	ISO 22000:2018 Food Safety Management system: Requirement for any organization in the food chain	12/01/2021	Food Safety and Quality Solutions, Pune
141.	Er. A. K. Senapati	Training	Virtual national level higher training on 'Sustainable development of secondary agriculture : Economical, food-nutritional and livelihood perspective'	16/01/2021 to 05/02/2021	NAU, Navsari under NAHEP, ICAR, New Delhi
142.	Er. F. M. Sahu	Webinar	Post COVID-19 Agribusiness: Challenges and Opportunities	13-14/06/2020	Junagadh Agricultural University Junagadh (gujarat)
143.	Er. F. M. Sahu	Webinar	Bio- transformation technologies to achieve zero waste targets along food chains	10/07/2020	SLIET, Longowal, Punjab
144.	Er. F. M. Sahu	Webinar	Agricultural Market Reforms & Market Intelligence	07-08/07/2020	NAHEP CAAST AAU Anand
145.	Er. F. M. Sahu	Webinar	Addressing COVID-19 impact on food security, nutrition and future livelihood: A special focus to Gujarat	15-16/0//2020	CoA, NAU Campus Bharuch
146.	Er. F. M. Sahu	Webinar	National Webinar on Stored Product Protection in Era of Climate Change	23-24/07/2020	Bihar Agricultural University, Sabour, Bhagalpur
147.	Er. F. M. Sahu	Webinar	Bridging the gap – opening up large volumes to Nanotechnology	25/072020	PP Savani University,
148.	Er. F. M. Sahu	Webinar	Engineering Interventions for Plant Health Management – Farm Machinery	27-28//07/2020	NIPHM Rajendranagar, Hyderabad – 500 030

			for Plant Health Management		
149.	Er. F. M. Sahu	Webinar	Farmer Producer Organizations and Commodity Markets	27-28/07/2020	NAHEP CAAST AAU Anand
150.	Er. F. M. Sahu	Webinar	Advanced Sustainability Assessment	28/07/2020	PP Savani University,
151.	Er. F. M. Sahu	Webinar	Recent Advances in Seed Spice Productions	04/08/2020	SSRS, SDAU, Jagudan
152.	Er. F. M. Sahu	Webinar	Unblocking the Future through Emerging Precision Farming and Post Harvest Technologies	30/08/2020	NAHEP- CAAST NAU Navsari, Gujarat
153.	Er. F. M. Sahu	Webinar	Pulse Electric Field in Foods	07/09/2020	NAHEP- CAAST NAU Navsari, Gujarat
154.	Er. F. M. Sahu	Webinar	Nutrition and health - eat right, bite by bite	07/09/2020	RKVY-RAFTAAR Agri-Business Incubator College of FPTBE, AAU, Anand, Gujarat
155.	Er. F. M. Sahu	Webinar	Market Intelligence & Export Potential In Horticulture Sector	14/10/2020	College of Horticulture S. D. Agricultural University Jagudan
156.	Er. F. M. Sahu	Webinar	International Webinar on 'Harnessing the Potential of Tropical Tuber Crops under Changing Climate (HPTTC 2020)	27/10/2020	ICAR-CTCRI, Thiruvananthapuram, Kerala, India
157.	Er. F. M. Sahu	Webinar	HPTLC Technique and its Applications in Agriculture	03/11/2020	ACHF, NAU Navsari
158.	Er. F. M. Sahu	Webinar	Innovation, Start-up and Entrepreneurship	07-11/12/2020	Innovation, Incubation And Entrepreneurship (IIE) Cell GKCIET Malda West Bengal
159.	Er. F. M. Sahu	Webinar	Nurturing Entrepreneurship in Food and Agro-Processing (NEFA-2021)	16/01/2021	Agri. & Food Business Incubator, Anand Agricultural University, Anand, Gujarat
160.	Er. F. M.	Training	Fruits and vegetable	18-	IICPT, Thanjavur,

	Sahu		processing- Training for master Trainers	21/11/2020	Tamil Nadu
161.	Er. F. M. Sahu	Webinar	Sustainable Development of Secondary Agriculture: Economical, Food-Nutritional and Livelihood Perspective	16/01/2021 to 05/02/2021	NAHEP-CAAST sub project on Secondary Agriculture, NAU, Navsari Gujarat
162.	Dr. H.G. Suthar	Webinar	Yoga for immunity build-up and fight against COVID-19	14/06/2020	NAU, Navsari
163.	Dr. H.G. Suthar	Webinar	National level webinar on 'Novel methods of food product and process development'	19/05/2020	NAHEP-CAAST, NAU, Navsari
164.	Dr. H.G. Suthar	Webinar	National level webinar on 'Non thermal processing of liquid foods'	23/05/2020	NAHEP-CAAST, NAU, Navsari
165.	Dr. H.G. Suthar	Training	National Level Faculty Development Training Programme- DIGICULT-Spreading Digital Culture to the Library Professional, Readers and Researchers	08/06/2020 to 12/06/2020	NAU, Navsari
166.	Dr. H.G. Suthar	Training	Virtual national level higher training on 'Sustainable development of secondary agriculture : Economical, food-nutritional and livelihood perspective'	16/01/2021 to 05/02/2021	NAU, Navsari under NAHEP, ICAR, New Delhi
167.	Dr. H.G. Suthar	Webinar	ISO 22000:2018 Food Safety Management system: Requirement for any organization in the food chain	12/01/2021	Food Safety and Quality Solutions, Pune
168.	Dr. N. V. Patel	Webinar	National level webinar on 'Novel methods of food product and process development'	19/05/2020	NAHEP-CAAST, NAU, Navsari
169.	Dr. N. V. Patel	Webinar	National level webinar on 'Non thermal processing of liquid foods'	23/05/2020	NAHEP-CAAST, NAU, Navsari
170.	Dr. N. V.	Training	ISO 22000:2018 Food	12/01/2021)	Food Safety and

	Patel		Safety Management system: Requirement for any organization in the food chain		Quality Solutions, Pune
171.	Dr. N. V. Patel	Training	Virtual national level higher training on 'Sustainable development of secondary agriculture : Economical, food-nutritional and livelihood perspective'	16/01/2021 to 05/02/2021	NAU, Navsari under NAHEP, ICAR, New Delhi
172.	Dr. N. V. Patel	Online Guest Lecture from International Faculties	Edible Landscape and Future Food Systems for Healthy Diets by Dr.ChandrashekharBiradar	30/08/2020	NAHEP, CAAST NAU, Navsari
173.	Dr. N. V. Patel	Webinar	Unblocking the Future through Emerging Precision Farming and Post Harvest Technologies by Dr.Kadamb H. Patel	30/08/2020	NAHEP, CAAST NAU, Navsari
174.	Dr. N. V. Patel	Webinar	Pulse Electric Field for Food Processing Technology by Dr.PoojaLakhanpal	30/08/2020	NAHEP, CAAST NAU, Navsari
175.	Dr. N. V. Patel	Webinar	Edible Films and Coatings to Preserve Horticultural Crops	30/08/2020	NAHEP, CAAST NAU, Navsari
176.	Dr. H. V. Pandya	Training	Rodent Pest Management	24-28/08/2020	National Institute of Plant Health Management, Hyderabad
177.	Dr. H. V. Pandya	Webinar	<i>Shiyalu Shakhajina Pakoma Pak Sanrakshan</i>	06/10/2020	PPAG, AAU, Anand
178.	Dr. H. V. Pandya	Webinar	<i>Sajeev Khetima Pak Sanrankshan</i>	27/10/2020	PPAG, Gujarat Organic University and AAU, Anand
179.	Dr. H. V. Pandya	Webinar	<i>'Chandan ni Adhunik kheti'</i>	02/11/2020	NAHEP -CAAST, AAU, Anand
180.	Dr. H. V. Pandya	Training	Online/virtual training on Fruit Fly Surveillance; and Management	07/12/2020 to 11/12/2020	National Institute of Plant Health Management, Hyderabad
181.	Dr. P. R. Patel	Webinar	ICAR-NRCB Webinar on Integrated Disease	29/07/2020	ICAR-NRCB, Tiruchirappalli, TN

			Management in Banana		
182.	Dr. P. R. Patel	Webinar	Biopesticides: Green Technology in Sustainable Agriculture	18/08/2020	College of Agriculture, NAU., Bharuch
183.	Dr. P. R. Patel	Webinar	<i>Kharif pako ma pak sanrakshanna pravartman prashno ane niraf karan</i>	20/08/2020	jointly organized by Plant Protection Association of Gujarat (PPAG) and Anand Agricultural University, Anand
184.	Dr. P. R. Patel	Webinar	Microbial Intervention in Plant Health and Nutrition	25-26/08/2020	College of Agriculture, NAU., Bharuch
185.	Dr. P. R. Patel	Webinar	National Web Conference on "Mushroom Production: An Emerging Avenue for Rural Youth and Self Employment"	26-27/08/2020	Bihar Agricultural University, Sabour Bhagalpur, 813210, Bihar, India
186.	Dr. P. R. Patel	Webinar	National Webinar on "Sustainable Pest Management of Organic Banana: Need of Climate Smart Agriculture"	31/08/2020	Bihar Agricultural University, Sabour Bhagalpur, 813210, Bihar, India
187.	Dr. P. R. Patel	Webinar	Shakbhajina Pakoma Sankalit Rog Vyavasthapan" in one day webinar on "Shiyalu Shakbhajina Pakoma Pak Sanrakshan"	06/10/2020	jointly organized by Plant Protection Association of Gujarat (PPAG) and Anand Agricultural University, Anand
188.	Dr. P. R. Patel	Webinar	Integrated Disease Management in Horticultural Crops	22/10/2020	Department of Plant Protection, College of Horticulture SDAU., Sardarkrushinagar, Dantiwada
189.	Dr. P. R. Patel	Webinar	Fal Pakoma Sankalit Rognu Jaivik Vyavasthapan	27/08/2020	jointly organized by Plant Protection Association of Gujarat (PPAG) and Anand Agricultural University, Anand

190.	Dr.V. P. Prajapati	Training	National Level Faculty Development Training Programme- DIGICULT-Spreading Digital Culture to the Library Professional, Readers and Researchers	08-12/06/2020	Navsari Agricultural University, Navsari (Gujarat).
191.	Dr.V. P. Prajapati	Webinar	Webinar on Motivation of youth towards Agri-entrepreneurship and innovative farming	04-05/7/2020	Jawaharlala Nehru Krishi Vishwavidyalay, Jabalpur. M.P.
192.	Dr.V. P. Prajapati	Webinar	Webinar on Property rights in Agriculture sector	17/07/2020	Swami Keshwanand Rajasthan Agricultural University, Bikaner
193.	Dr.V. P. Prajapati	Webinar	Webinar on New normal in floriculture	23/07/2020	Department of Horticulture, Annamalai University
194.	Dr.V. P. Prajapati	Webinar	National webinar on Plant biological intervention for climate smart Agriculture	30/07/2020	Bihar Agricultural University, Sabour, Bhagalpur
195.	Dr.V. P. Prajapati	Webinar	Recent advances in seed spices production	04/08/2020	Sardarkrushinagar Dantiwada Agricultural University, Jagudan
196.	Dr.V. P. Prajapati	Webinar	International web conference on ensuring food safety, security and sustainability through crop protection	05-06/08/2020	Bihar Agricultural University, Sabour, Bhagalpur
197.	Dr.V. P. Prajapati	Webinar	Start up - A Stepping Stone to Attain Self Reliance and Sustainability in Agricultural Sciences	06/08/2020	ASPEE College of Home Science and Nutrition, S.D.A.U., Sardarkrushinagar,
198.	Dr.V. P. Prajapati	Training	one week online training programme on Soft Skills to Enhance Professional Efficiency and Effectiveness	17-22/08/2020	Mahatma Phule Krishi Vidyapeeth, Rahuri
199.	Dr.V. P. Prajapati	Webinar	Biopesticides: Green technology in sustainable agriculture	18/08/2020	College of Agriculture, Navsari Agricultural University, Campus Bharuch
200.	Dr.V. P.	Webinar	Scope of Agricultural	19-	Department of

	Prajapati		entrepreneurship development	21/08/2020	Agronomy, College of Agriculture, Navsari Agricultural University, Campus Bharuch
201.	Dr.V. P. Prajapati	Webinar	<i>Kharif pakoma pak sanrakshan na pravartman prashno ane nirakaran</i>	20/08/2020	Anand Agricultural University, Anand
202.	Dr.V. P. Prajapati	Webinar	Microbial intervention in plant health and nutrition	25-26/08/2020	College of Agriculture, Navsari Agricultural University, Campus Bharuch
203.	Dr.V. P. Prajapati	Webinar	Recent trends in horticultural Entomology	27/08/2020	Department of Plant Protection, College of Horticulture, Sardarkrushinagar Dantiwada Agricultural University, Jagudan
204.	Dr.V. P. Prajapati	Webinar	International web conference on biodiversity in vegetable crops for healthier life and livelihood	27-28/08/2020	Bihar Agricultural University, Sabour, Bhagalpur
205.	Dr.V. P. Prajapati	Webinar	National webinar on sustainable pest management of organic banana: need of climate smart agriculture	31/08/2020	Bihar Agricultural University, Sabour, Bhagalpur
206.	Dr.V. P. Prajapati	Webinar	National webinar on cultivation of medicinal and aromatic plants(MAPs): An innovative effort towards sustainable development	01/09/2020	Bihar Agricultural University, Sabour, Bhagalpur
207.	Dr.V. P. Prajapati	Webinar	Kapasna pakma pak sharakshan	16/09/2020	Anand Agricultural University, Anand
208.	Dr.V. P. Prajapati	Webinar	National webinar on recent advancements in seed health management	05/10/2020	ICAR-Indian Institute of Seed Science, Mau
209.	Dr.V. P. Prajapati	Webinar	<i>Shiyalu shakbhajina pakoma pak sanrakshan</i>	06/10/2020	Anand Agricultural University, Anand

210.	Dr.V. P. Prajapati	Webinar	Diagnostics and remedial measure for common errors in application of statistics	20-21/10/2020	Department of Agricultural Statistics, College of Agriculture, Navsari Agricultural University, Campus Bharuch
211.	Dr.V. P. Prajapati	Webinar	National webinar on Integrated disease management in horticultural crops	22/10/2020	Department of Plant Protection, College of Horticulture, Sardarkrushinagar Dantiwada Agricultural University, Jagudan
212.	Dr.V. P. Prajapati	Webinar	<i>Sajeev khetima pak sanrakshan</i>	27/10/2020	Anand Agricultural University, Anand
213.	Dr.V. P. Prajapati	Workshop	National E-workshop on current scenario of post graduation research in agriculture sector	09-11/11/2020	Swami Keshwanand Rajasthan Agricultural University, Bikaner
214.	Dr.V. P. Prajapati	Workshop	Workshop on “HPTLC Technique and its Applications in Agriculture”	03/11/2020	Department of Plant Molecular Biology and Biotechnology, ASPEE College of Horticulture and Forestry, Navsari Agricultural University, Navsari
215.	Dr.V. P. Prajapati	Webinar	National symposium on plant health management	02-04/11/2020	Department of Plant Pathology and Entomology, College of Agriculture, Navsari Agricultural University, Campus Bharuch
216.	Dr.V. P. Prajapati	Webinar	State level webinar on <i>Shiyalu pakoma poshan vyavastha</i>	09/11/2020	Anand Agricultural University, Anand
217.	Dr.V. P. Prajapati	Webinar	National Webinar on Management of Root-rot disease of Horticultural Crops	24/11/2020	Department of Plant Pathology, PG College of Agriculture, Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur (Bihar)
218.	Dr.V. P. Prajapati	Webinar	National webinar on “Recent molecular approaches for plant	17/12/2020	Department of Plant Pathology, S.V. Agricultural College,

			disease diagnosis-I”		Acharya N.G. Ranga Agricultural University, Tirupati
219.	Dr.V. P. Prajapati	Webinar	National Webinar on “Transboundary Pests – Threats to Bio-Security and Bio-Safety issues”	21/12/2020	Department of Entomology, S.V. Agricultural College, Tirupati, ANGRAU
220.	Dr.V. P. Prajapati	Webinar	National webinar on “Recent molecular approaches for plant disease diagnosis-II	05/01/2021	Department of Plant Pathology, S.V. Agricultural College, Acharya N.G. Ranga Agricultural University, Tirupati
221.	Dr.V. P. Prajapati	Webinar	National webinar on Statistical methods in Plant Pathology	01-03/02/2021	Department of Plant Pathology, Assam Agricultural University, Jorhat
222.	Dr.V. P. Prajapati	Webinar	International webinar on “Application of Molecular and Bioinformatic tools in Crop Protection” organized by the	01-03/03/2021	Department of Plant Pathology, Assam Agricultural University, Jorhat
223.	Dr. Hemant Sharma	Webinar	“Advances in Disease and Pest Management for Sustainable Banana Industry”	04/07/2020	ICAR-IIHR, Bengaluru and AAU, Jorhat, Assam
224.	Dr. Hemant Sharma	Webinar	“Role of IPR and GI in developing Agriculture sector in India”	06/07/2020	K. K. Wagh Education Society's K.K. Wagh College of Agriculture Business Management (Affiliated to MPKV, Rahuri) Saraswati Nagar, Panchwati, Nashik
225.	Dr. Hemant Sharma	Webinar	“Biopesticides: Green Technology in Sustainable Agriculture”	18/08/2020	College of Agriculture, Navsari Agricultural University, Bharuch
226.	Dr. Hemant Sharma	Webinar	“Recent trends in horticultural entomology”	27/08/2020	department of Plant Protection, College of Horticulture, Sardarkrushinagar Dantiwada Agricultural University, Jagudan
227.	Dr. Snehal	Training	National Level Faculty	08-	Navsari Agricultural

	Patel		Development Training Programme- DIGICULT-Spreading Digital Culture to the Library Professional, Readers and Researchers	12/06/2020	University, Navsari (Gujarat).
228.	Dr. Snehal Patel	Workshop	“HPTLC Technique and its Applications in Agriculture”	03/11/2020	Department of Plant Molecular Biology and Biotechnology, ASPEE College of Horticulture and Forestry, Navsari Agricultural University, Navsari
229.	Dr. Snehal Patel	Online Guest Lecture	Regulatory environment for safe use of Agrochemicals in India and underutilized foods for enhancement of food and nutritional security	07/10/2020	ICAR-NAHEP, NAU, Navsari
230.	Dr. Snehal Patel	Webinar	<i>‘Chandan ni Adhunik kheti’</i>	02/11/2020	NAHEP -CAAST, AAU, Anand
231.	Dr. Snehal Patel	Webinar	<i>Shiyalu Shakbhajina Pakoma Pak Sanrakshan</i>	06/10/2020	PPAG, AAU, Anand
232.	Dr. Snehal Patel	Webinar	<i>Sajeev Khetima Pak Sanrankshan</i>	27/10/2020	PPAG, Gujarat Organic University and AAU, Anand
233.	Dr. Snehal Patel	Training	‘Rodent Pest Management’	24-28/082020	National Institute of Plant Health Management, Hyderabad
234.	Dr. Snehal Patel	Online Guest Lecture	Routine Trace Residue Quantification with Comprehensive Workflows: Solutions for Success in Today’s Laboratories	20/11/2020	ICAR- National Agricultural Higher Education Project-CAAST, NAU, Navsari
235.	Dr. Snehal Patel	Online Guest Lecture	The essentials for the multi-residue analysis of GC-MS amenable pesticides in food	20/11/2020	ICAR- National Agricultural Higher Education Project-CAAST, NAU, Navsari
236.	Dr. Snehal Patel	Webinar	Underutilized fruits: Converting Wastelands in to Gold mine”	30/09/2020	College of Agriculture, NAU, Navsari

237.	Dr. Snehal Patel	Online guest lecture	Use of High Resolution Mass Spectrometry in Food Analysis	20/11/2020	ICAR- National Agricultural Higher Education Project-CAAST, NAU, Navsari
238.	Dr. K. P. Suthar	Conference	Advances and Future Outlook in Biotechnology and Crop Improvement for Sustainable Productivity	24-27/11/2020	University of Horticultural Sciences, Bagalkot, Karnataka
239.	Dr. Diwakar Singh	Seminar	11 th International Conference on Agriculture, Horticulture and Food Sciences,	19-20/12/2020	The Society of Tropical Agriculture, New Delhi
240.	Dr. Diwakar Singh	Webinar	Webinar on “Nutrition, Immunity & COVID - 19”	30/09/2020	ICAR-Indian Agricultural Research Institute and Society for Plant Biochemistry and Biotechnology
241.	Dr. Diwakar Singh	Workshop	Online Workshop on HPTLC Technique and its Applications in Agriculture	03/11/2020	Department of Plant Molecular Biology and Biotechnology, ACHF, NAU, Navsari and Anchrom India Pvt. Ltd, Mumbai
242.	Dr. K. P. Suthar	Training	one day training on concept and basic understanding of portal	22/01/2021	MoTA, GOI and Canara bank
243.	Dr Smita Gupta	Seminar	Participated in National conference on “Strategic reorientation for climate smart agriculture,V-AGMET-2021	17-19/03/2021	Association of Agrometeorologist, PAU, Ludhiana
244.	Dr Smita Gupta	Conference	Oral presentation on Economic impact assessment of the Agrmeteorological advisory service of Western Uttar Pradesh	17-19/03/2021	Agrometeorologist, PAU, Ludhiana.
245.	Dr Smita Gupta	Webinar	Participated in International webinar on “Wetland System “	02/02/2021	Department of environmental science,School of

					earth sciences Punyashlok Akhiyade viHolkar, Solarpur University.
246.	Dr Smita Gupta	Training	Attended one week online training program on soft skills to enhance professional efficiency and effectiveness	17- 22/08/2020	Organized by CAAST and water management (CAAST-CASAM) and department of Agricultural Extension and communication
247.	Dr. A.R. Kaswala	Winter School	Sustainable Development of Secondary Agriculture: Economical, Food & Nutritional and Livelihood Perspective (Online Training)	16/01/2021 to 05/02/2021	Centre for Advanced Agricultural Science and Technology on Secondary Agriculture, CAAST Secretariat Directorate of Research, NAU, Navsari
248.	Dr. O.P. Sharma	e-Quiz	e-Quiz On Entrepreneurial Development	27/05/2020 to 03/06/2020	PG Department of Commerce (SF), Jamal Mohamed College (Autonomous), Tiruchirappalli-620 020
249.	Dr. O. P. Sharma	e-Quiz	e- Quiz- Environment Awareness	08/06/2020	Kamdhenu University, Gandhinagar
250.	Dr. O. P. Sharma	Webinar	Role of IPR and GI in developing Agriculture sector in India	06/07/2020	GMGC Group, Pune
251.	Dr. O. P. Sharma	Webinar	Addressing the COVID impact on food security, nutrition and livelihood: a special focus to Gujarat	15- 16/07/2020	COA, NAU, Bharuch
252.	Dr. O. P. Sharma	Online course	Remote Sensing Applications in Agricultural Water Management	03/08/2020 to 07/08/2020	Indian Institute of Remote Sensing (IIRS)
253.	Dr. O. P. Sharma	Web Conference	Utilization of Organic Waste for Soil Health Management and Energy Production Under Changing	06/10/2020	Sri Karan Narendra Agriculture University, Jobner - Jaipur (Raj.)

			Climate Scenario		
254.	Dr. O. P. Sharma	Webinar	Stress management for performance improvement	11/10/2020	Directorate of Student's Welfare, Navsari Agricultural University, Navsari
255.	Dr. O. P. Sharma	Webinar	Integrated Disease Management in Horticultural Crops	20/10/2020	College of Horticulture, SDAU, Jagudan
256.	Dr. A. K. Leua	Short Training	Econometrics: Methods and Applications	03-05/07/2020	Erasmus University, Rotterdam, Netherlands
257.	Dr. A. K. Leua	Data Science Course	The Data Science Course 2020: Complete Data Science Bootcamp	05-08/03/2021	Udemy
258.	Dr. D.J. Chaudhari	Webinar	Market intelligence and export potential in horticulture sector	14/10/2020	College of Horticulture, SDAU, Jagudan
259.	Dr. A. K. Leua	Webinar	National Webinar on "Diagnostic and remedial measures for common error in application of statistics"	20-21/10/2020	COA, Campus Bharuch, NAU, Navsari (Online)
260.	Dr. A. K. Leua	Webinar	Online seminar on 'Co-operative marketing in Gujarat'	30/01/2021	College of Horticulture, AAU, Anand

5.3 Council/ Committee Meetings attended by Faculty

S. N.	Faculty	Meeting Details	Date	Place
1.	Dr Dev Raj	Committee member for scrutiny of the State Govt. Project Proposals	Regular member (Tri-monthly meetings)	NHM, Directorate of Horticulture, Krishi Bhawan, Gandhinagar
2.	Dr. N.V. Patel	Member of Students Representative Council (SRC) committee of ACHF, NAU	-	ACHF, NAU
3.	Dr. N.V. Patel	Member of Scrutiny Committee of Annual Gathering	-	ACHF, NAU
4.	Dr. H.G. Suthar	Second Meeting of Post Graduate Research Approval Group (PG-RAG) [Crop Protection]	-	NAU, NAVSARI.
5.	Dr. H.G. Suthar	AGRESCO, Basic Science SUB COMMITTEE meeting, NAU, NAVSARI.	-	NAU, Navsari

6.	Dr. Diwakar Singh	16 th AGRESO Basic Sciences Sub-Committee Meetings and Combined Joint Meeting	05-06.05.2020 & 19.05.2020 (CJA)	IT Cell, Conference hall, NAU, Navsari
7.	Dr. P.P. Bhalerao	29 th Annual Group Meeting of AICRP (Palms)	10-11/08/2020	Online video conference
8.	Dr. T.R. Ahlawat	Board of Studies, Faculty of Post Graduate Studies, NAU, Navsari	26/08/2020	Online mode
9.	Dr. V.K. Parmar	9 th Board of Studies Meeting of Faculties Of Horticulture and Forestry	10/09/2020	Conference Hall, College of Forestry, NAU, Navsari
10.	Dr. R.V. Tank	9 th Board of Studies Meeting of Faculties of Horticulture and Forestry	10/09/2020	Conference Hall, College of Forestry, NAU, Navsari
11.	Dr. Himani B. Patel	Virtual Consultative Meeting	14/9/2020	Online mode through CTCRI, Kerala
12.	Er. P.S. Pandit	6th meeting of BoS. Agril. Engg. Faculty	21/10/2020	Online zoom platform. CAET, NAU, Dediapada
13.	Dr. V.K. Parmar	Breeding Road Map in Fruit Crops	22/10/2020	Conference Hall, ACHF
14.	Dr. T.R. Ahlawat	Breeding Road Map in Fruit Crops	22/10/2020	Conference Hall, ACHF
15.	Dr. P.P. Bhalerao	Quinquennial Review Team of AICRP (Palms)	02-08/12/2020	Online video conference
16.	Dr. S.N. Saravaiya	Scientific Advisory Committee meeting	14/12/2020	KVK, NAU, Waghai
17.	Dr. S. N. Saravaiya	Scientific Advisory Committee meeting	16/12/2020	KVK, NAU, Waghai
18.	Dr. T.R. Ahlawat	13 th Research Council Meeting	01/01/2021	VC Conference Hall
19.	Dr. O.P. Sharma	17 th AGRESO meeting of Social Science	22.02.2021	NAU, Navsari
20.	Dr. A.K. Leua	17 th AGRESO meeting of Social Science	22.02.2021	NAU, Navsari
21.	Mr. H.N. Chhatrola	17 th AGRESO Sub-Committee Meeting, Member as Statistician	16.02.2021 (Forestry), 22.02.2021 (Social Sci.), 03-05/03/2021 (Hort.), 08-09/03/2021 (Crop Improvement)	NAU, Navsari

22.	Dr. D.J. Chaudhari	17 th AGRESKO meeting of Social Science	22.02.2021 (Social Science), 03-05/03/2021 (Hort.),	NAU, Navsari
23.	Mr. A.P. Chaudhary	AGRESKO Sub-committee meeting, member as Statistician	16.02.2021 (Forestry), 22.02.2021 (Social Sci.), 08-09/03/2021 (Crop Improvement)	NAU, Navsari
24.	Dr. T.R. Ahlawat	Atmanirbhar Gujarat-Roadmap for Agriculture Sector	23/02/2021	VC Conference Hall
25.	Dr. Alka Singh (Convener)	17 th Horticulture AGRESKO	03-04/03/2021	Navsari

6. PUBLICATIONS/ ACHIEVEMENTS BY FACULTY

6.1 Practical Manuals/Instructional Materials

S.N.	Course No.	Title of the Course	Name of Faculty	Department
1.	PGS 502	Technical Writing and Communications Skills	Dr. S.N. Saravaiya	Vegetable Science
2.	VEG 3.3	Protected Cultivation and Precision Farming (e Practical Manual)	Dr. Sanjeev Kumar and Dr. S.N. Saravaiya	Vegetable Science
3.	VEG 3.3	Protected Cultivation and Precision Farming (e Study Manual)	Dr. Sanjeev Kumar, Hetal Rathod, Dr. S.N. Saravaiya	Vegetable Science
4.	VSC 505	Seed Production Technology of Vegetable Crops (e Practical Manual)	Dr. Sanjeev Kumar and Dr. N.K. Patel	Vegetable Science
5.	HWE 7.1	Instructional Videos on: 1.Green House Technology-Gerbera: Experiential Learning Program 2. Career prospects in Floriculture 3. Pot Plants: A promising Enterprise for starts ups	Dr. Alka Singh	Floriculture
6.	HWE 7.4	Instructional Videos on: 1. Indoor Gardening Plant Selection 2. Indoor Gardening: An Introduction 3. Home Gardening 4. Indoor Gardening: Management tips	Dr. Alka Singh	Floriculture
7.	FLA 506	Instructional Videos on: 1. Flower Arrangement Techniques: Fundamentals & Basic Styles 2. Flower Arrangement Techniques: Western Style-S Curve 3. Ikebana-Moribana style 4. Flower Arrangement Techniques: Western Style-Asymmterical triangle and Crescent 5. Ikebana-Moribana: Upright & Slanting 6. Flower Arrangement Techniques: Ikebana-Nagiare	Dr. Alka Singh	Floriculture

7. Dry Flowers: The Art & Technique				
8.	NRMH 4.6	Farm power and machinery	Er. N. M. Shah	Agril. Engg. under NRM
9.	NRM 3.5	Forest survey and conservation	Er. N. M. Shah	Agril. Engg. under NRM
10.	NRM 6.12	Forest hydrology and watershed management	Er. N. M. Shah	Agril. Engg. under NRM

6.2 Research Papers

S. N.	Research Papers	NAAS Score
1.	Udit M. Nakarani, Diwakar Singh, Kiran P. Suthar, Nilima Karmakar, Priti Faldu and Harshal E. Patil. 2020. Nutritional and phytochemical profiling of nutraceutical finger millet (<i>Eleusine coracana</i> L.) genotypes. <i>Food Chemistry</i> . 341: 128271. https://doi.org/10.1016/j.foodchem.2020.128271	12.31
2.	Modi, S., Kumar, S. and Dubey, P.K. 2021. Dynamics of chitosan based NPK-nanofertilizers in greenhouse cucumber production system. <i>Journal of Environmental Biology</i> . 42: 162-168. Doi: http://doi.org/10.22438/jeb/42/1/MRN-1251	6.78
3.	P.N. Narshima Murthy, Patel, N.B., Kapadia C., Desai, K.D. and Koteshwara Rao. 2021. Genetic diversity analysis of sweet potato (<i>Ipomoea batatas</i> L. Lam.) germplasm through RAPD and ISSR markers. <i>Bangladesh J. Botany</i> . 50 (1): 119-129.	6.21
4.	Chawla S.L., Dipal Bhatt, Sudha Patil and Parmeshvari Chaudhari. 2020. Standardization of chemicals for improving postharvest life of loose flowers of tuberose (<i>Polianthes tuberosa</i>). <i>Indian Journal of Agricultural Sciences</i> . 90 (10): 2029-2032.	6.21
5.	Sudha Patil, S.L. Chawla, Dipal S. Bhatt and M.A. Patel. 2020. Response of <i>Sancerre gladiolus</i> to different levels of nitrogen and phosphorus application under south Gujarat condition. <i>Indian J. Hort.</i> , 77(2): 356-361.	6.16
6.	Sanjeev Kumar, N. B. Patel And S. N. Saravaiya. 2020. Pruned side shoots as planting material: Opening new dimensions for sustainable greenhouse cucumber production system <i>Indian J. Hort.</i> 77(2):307-314	6.11
7.	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
8.	Patel Dharmishtha, Ahlawat, T.R., Suchismita Jena and Chaudhary Abhijit. 2020. Effect of silicon and seaweed extract on physical and sensory quality of papaya cv. Red Lady. <i>Int. J. Curr. Microbiol. App. Sci.</i> , 9(01): 504-510. doi: https://doi.org/10.20546/ijcmas.2020.901.055	5.38
9.	Shivkumara, N.R., Ahlawat, T.R., Pandey, A.K., Dharmishtha Patel, Suchismita Jena and Chaudhary, A.D. 2021. Comparative morphology, phenology and productive potential of different plant types in papaya cv. Red Lady Taiwan. <i>Int. J. Curr. Microbiol. App. Sci.</i> , 10(3): 2050-59.	5.38
10.	Chaudhari, B.N., Patel, A.I. and Vashi, J.M. 2020. Study on heterosis over environments in brinjal (<i>Solanum melongena</i> L.). <i>Int. J. Curr. Microbiol. App. Sci.</i> 9(7): 3358-3367.	5.38

11.	Koli, H.K., Patel, A.I., Vashi, J. M. and Chaudhari, B.N. 2020. study of heterosis for fruit yield and its component traits in okra [<i>Abelmoschus esculentus</i> (L.) Moench]. Int. J. Curr. Microbiol. App. Sci., 9(9): 1930-1937.	5.38
12.	Koli, H. K. and Patel, A.I. 2020. Combining ability analysis for yield and yield components in okra [<i>Abelmoschus esculentus</i> (L.) Moench]. Int. J. Curr. Microbiol. App. Sci. 9(10): 665-673.	5.38
13.	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 <i>Gloriosa superba</i> Linn. Int. J. Curr. Microbiol. App. Sci. 10(02): 3278-3282.	5.38
14.	Sudha Patil and S. Vidyashree. 2020. Plant people relationship-An unseen bond with perceived benefits. Int. J. Curr. Microbiol. App. Sci. 9(1): 2625-263.	5.38
15.	Patel, P.R., Patel, B.N., Dev Raj and Patil, S.J. 2020. Quality of banana cv. Grand Naine influenced by nitrogen and biofertilizers. Int. J. Curr. Microbiol. App. Sci. 9(12):1	5.38
16.	S.V. Nalawade, P.R. Patel and V.A. Patil. 2020. Biochemical constituents variation in resistant and susceptible rice genotypes against sheath rot disease of rice. Int. J. Curr. Microbiol. App. Sci. 9(5)	5.38
17.	Solanki, B., Kaswala, A.R., Dubey, P.K., and Italiya, A. P. 2020. Impact of Land Configuration and Various Organic Sources on Yield, Nutrient Content and Uptake by Carrot in Organic Farming. International Journal of Current Microbiology and Applied Sciences. 9(8): 3836-3845.	5.38
18.	Chaudhary, M.V, Sharma, O.P. and Chaudhary, K.L. 2021. Constraints as perceived by the members in availing services of Cooperatives Societies in South Gujarat. International Journal of Current Microbiology and Applied Sciences, 10(1).	5.38
19.	Chaudhary, M.V, Sharma, O.P. and Chaudhary, K.L. 2021. Socio economic profile of Cooperative Society members and non-members in South Gujarat. International Journal of Current Microbiology and Applied Sciences, Accepted for Publication on dated 25.01.2021	5.38
20.	Chaudhary, A.D., Ahlawat, T.R., Bhandari, D.R. and Dharmishtha Patel (2020). Effect of de-blossoming treatments on physical characteristics of different mango varieties during off-season production under South Gujarat conditions. Current J. Appl. Sci. Tech., 39 (8): 1-6.	5.32
21.	R. Patel Jesal, Sanjeev Kumar, A.K. Pandey, N.B. Patel and J.M. Mayani. 2020. Interactive effects of silicic acid and NOVEL on tomato performance under protected conditions. Current Journal of Applied Science and Technology. 39(46): 50-57. Doi: 10.9734/CJAST/2020/v39i4631171	5.32
22.	Asha Chaudhary, Ahlawat, T.R., Sanjeev Kumar, Dharmishtha Patel and Suchismita Jena (2020). Promoting seed growth in Kagzi lime through pre-sowing treatments. Int. J. Chem. Stud., 8 (1): 2815:2818.	5.31
23.	Chaudhary, A.D., Ahlawat, T.R., Shah, N.I., Bhandari, D.R. and Patel Dharmishtha (2020). Influence of de-blossoming treatments on physico-chemical characteristics of selected mango varieties during off season fruit production under South Gujarat conditions. Int. J. Chem. Stud., 8(4): 2963-2966.	5.31
24.	V Sravani, S.N. Saravaiya, D.R. Bhandari, Dev Raj, Himani B. Patel and J.M. Vashi. 2020. Effect of plant growth regulators on biochemical analysis of onion (<i>Allium cepa</i> L.). International Journal of Chemical Studies. 8(3):1317-1321.	5.31
25.	V Sravani, S.N. Saravaiya, B.N. Patel, H.N. Chhatrola, Himani B. Patel and J.M. Vashi. 2020. Response of plant bioregulators on growth parameters and plant	5.31

	growth analysis of onion (<i>Allium cepa</i> L.) International Journal of Chemical Studies 8(3): 1312-1316	
26.	J.M. Vashi, S.N. Saravaiya, A.I. Patel and B.N. Chaudhari. 2020. Silicon – The most under-appreciated element for vegetables. International Journal of Chemical Studies. 8(4): 2122-2127	5.31
27.	Asha Chaudhary, T.R. Ahlawat, Sanjeev Kumar, Dharmishtha Patel and Suchismita Jena. 2020. Promoting seedling growth in kagzi lime through pre-sowing treatments. International Journal of Chemical Studies. 8(1): 2815-2819.	5.31
28.	Patel, A.A., Patel, A.I., Parekh, V.B., Patel, R.K., Mali, S.C. and Vekariya, R.D. 2020. Estimation of standard heterosis over environments for fruit yield and its attributes in Okra [<i>Abelmoschus esculentus</i> (L.) Moench]. International Journal of Chemical Studies. 8(6): 2542-2547.	5.31
29.	Patel, A.I., Desai, B.S., Chaudhari, B.N. and Vashi, J.M. 2020. Genetic improvement in glory lily (<i>Gloriosa superba</i> L.): A review. International Journal of Chemical Studies. 8(4): 255-260.	5.31
30.	Sindhuja Mamilla, Singh Alka, Kapadiya Chintan, Bhandari, A.J. Shah, H.P. and Patel, A.I. 2020. Evaluation of Adenium genotypes for physiochemical and flowering characters. International Journal of Chemical Studies. 8(4): 3840-3844.	5.31
31.	Mamilla Sindhuja, Alka Singh, Chintan Kapadiya, A.J. Bhandari, H.P. Shah and A.I. Patel. 2020. Evaluation of Adenium genotypes for physiochemical and flowering characters International Journal of Chemical Studies. 8(4): 3840-3844	5.31
32.	Henaxi Patel, Alka Singh, N.B. Patel, A.J. Bhandari and H.P. Shah 2020. Effect of foliar spray of plant growth regulators on growth of potted hibiscus, International Journal of Chemical Studies. 8(6): 119-122	5.31
33.	Patel, G.D.; Patel, Nilam V.; Bhatt, Zalak; Raghavendra H.R. and Patel, N.B. 2020. Development of technology for preparation of fortified tomato (<i>Solanum lycopersicum</i> L.) beverage. International Journal of Chemical Studies. 8(2): 2452-2459.	5.31
34.	Bhatt Z.K., Patel N.V., Mayani J.M. and Dev Raj. 2020. Development of technology for preparation of instant tomato (<i>Solanum lycopersicum</i> L.) soup mix powder. International Journal of Chemical Studies. 8(2): 2034	5.31
35.	S.V. Nalawade, P.R. Patel and V.A. Patil. 2020. Effect of weather parameters and sheath mite population on incidence and development of sheath rot disease of rice International Journal of Chemical Studies 8(2): 2821-2825	5.31
36.	D.A. Bhagariya, V.P. Prajapati and M. R. Thesiya. 2021. <i>In-vitro</i> evaluation of botanicals against <i>Pestalotiopsis clavispora</i> causing crown rot of strawberry. International Journal of Chemical Studies. 9(1): 3459-3461	5.31
37.	Mittal Parmar and Hemant Sharma. 2020. <i>In-vitro</i> inhibitory effect of botanicals and fungicides on mycelial growth of <i>Peziotrichum corticolum</i> (Masse) Subramanian causing Black banded disease of mango. International Journal of Chemical Studies. 8(4): 1473-1476.	5.31
38.	Vinu Ahir and Hemant Sharma. 2021. Diversity of seed borne Mycota associated with finger millet and their effects on seed germination and seedling vigour. International Journal of Chemical Studies. 9(2): 603-606.	5.31
39.	Tandel, Roma; Patel, Snehalben and Pandya, H.V. 2020. Population dynamics of <i>Citrus psylla</i> , <i>Diaphorina citri</i> Kuwayama in relation to abiotic factor. International Journal of Chemical Studies. 8(6): 2112-2116.	5.31
40.	Sangeetha Priya S., Dipal S. Bhatt, S.L. Chawla, S.T. Bhatt and G.D. Patel. 2020. Effect of land configuration and nutrient management on growth and yield of	5.26

	African marigold var. Punjab Gainda 1 under South Gujarat conditions. The Bioscan. 15(1): 045-049.	
41.	Solanki, B., Kaswala, A.R., Dubey, P.K., and Italiya, A.P. 2020. Effect of land configuration and different organic sources on growth, yield and quality of carrot under organic farming. The Bioscan. 15(3): 357-362	5.26
42.	Shivakumara, N.R., Ahlawat, T.R., Patel, A.I., Dharmishtha Patel, Suchismita Jena and Abhijit Chaudhary. 2020. Assessment of correlation for yield and its contributing traits in papaya cv. Red Lady Taiwan under South Gujarat conditions. Journal of Pharmacognosy and Phytochemistry. 9(1): 2200-2203.	5.21
43.	Twinkle Patel, Pandey, A.K., Desai, K.D. and Ahlawat, T.R. (2020). Effect of preharvest treatments of paclobutrazol and calcium chloride on physical quality traits of mango cv. Amrapali. Journal of Pharmacognosy and Phytochemistry, 9(5): 1009-1012.	5.21
44.	Bhoomika Patel, Sheetal Jadhav, Swati Ganvit, Tandel, Y.N., Patel, N.M., Bhandari, D.R. and Darshana Chaudhari. 2020. Effect of husking (removing seed tip) and pre-soaking treatments on seed germination and seedling growth of Mango cv. Alphonso. Journal of Pharmacognosy and Phytochemistry. SP 6: 161-166.	5.21
45.	Parmar A.B., Tandel Y.N., Parmar B.R., Patel A.I. and Pandey A.K. 2020. Correlation and path coefficient analysis studies in Sapota [<i>Manilkara achras</i> (Mill.) Fosberg] genotypes. Journal of Pharmacognosy and Phytochemistry. 9(5): 2158-2162.	5.21
46.	K.I. Vasava and P.R. Patel. 2020. <i>In-vitro</i> evaluation of various antagonists against <i>Cercospora malayensis</i> causing leaf spot of okra. Journal of Pharmacognosy and Phytochemistry. 9(5): 2649-2651.	5.21
47.	K.I. Vasava and P.R. Patel. 2020. <i>In-vitro</i> evaluation of various botanicals against <i>Cercospora malayensis</i> causing leaf spot of okra. Journal of Pharmacognosy and Phytochemistry 2020; 9(5): 2645-2648.	5.21
48.	Bambharolia, R.P., Khunt, M.D., Deshmukh, A.J., Prajapati, V.P and Vavdiya, P.A. 2020. Isolation, screening and characterization of endophytic bacteria from root of finger millet (<i>Eleusine coracana</i> (L.) for different plant growth promotion (PGP) activities: An in-vitro study. Journal of Pharmacognosy and Phytochemistry. 9(5): 539-545.	5.21
49.	Patel, Ashishkumar C., Patel, K.G., Dubey, P.K., Singh, Susheel and Kaswala, A.R. 2020. Comparative effect of different levels of NADEP manures on nutrients content and quality of different crops grown under certified organic farm. Journal of Pharmacognosy and Phytochemistry. 9(5): 611-614	5.21
50.	Chaudhari, D.J. and Narendra Singh. 2020. Awareness and utilization of market information by the farmers and traders in Navsari district of South Gujarat. Journal of Pharmacognosy and Phytochemistry. Sp. 9(4): 250-255	5.21
51.	Suchismita Jena, Ahlawat, T.R., Patel, A.I., Pandey, A.K., Dharmishtha Patel and Chaudhary Abhijit. 2020. <i>Per se</i> performance of parents and hybrids for reproductive parameters in breeding program of papaya. The Pharma Innovation. 9(12): 382-388.	5.03
52.	Shah, S.B., Desai, K.D. and Pandey, A.K. 2020. Response of sweet potato to different levels of fertilizers and Novel. The Pharma Innovation Journal. 9(9): 16-18	5.03
53.	Urvashi Boricha, Parmar, B.R., Parmar, A.B., Sheetal Rathod, Patel, M.V. and Pandey, A.K. 2020. Effect of pre-sowing treatments on seed germination and	5.03

	seedling growth of guava. The Pharma Innovation Journal. 9(9): 431-433	
54.	Lalitha, K.R., Tank, R.V., Chawla, S.L. and Suchismita Jena. 2020. Effect of chemicals on seed germination and seedling growth of aonla (<i>Emblca officinalis</i> Gaertn.). The Pharma Innovation Journal. 9 (12): 239-243.	5.03
55.	Jena, Suchismita, Ahlawat, T.R., Patel, A.I., Tandel, B.M. Mishra, Abhilash and Lalitha, K.R. 2020. <i>Per se</i> performance of parents and hybrids for reproductive parameters in breeding program of papaya. The Pharma Innovation Journal. 9(12): 382-388.	5.03
56.	Singh, Alka, Chavan, S.K., Bhandari, A.J., Parekh, Vipulkumar, Shah, H.P., Patel, A.I. and Patel, B. N. 2020. New multipetalous variety G. Ad.2 in <i>Adenium obesum</i> . Electronic Journal of Plant Breeding. 11(2): 346-350.	4.97
57.	Meha D. Desai, K.P. Suthar, Diwakar Singh, Vipulkumar Parekh, M.D. Khunt and A. Haidar. 2020. Molecular evidence of phytohormonal modulatory effect of <i>Serratia liquefaciens</i> on rice. Applied Biological Research. 22(2): 126-133. Doi: 10.5958/0974-4517.2020.00024.5	4.96
58.	Leua, A. and Parmar, G. 2020. Impact of Covid-2019 on major vegetable markets of Gujarat. Indian Journal of Economics and Development. 16(4): 648-655.	4.82
59.	V.P. Prajapati, R.F. Chaudhary, A.J. Deshmukh, R.P. Bambharolia and N.K. Gajre. 2020. Management of blast (<i>Pyricularia grisea</i>) of finger millet with fungicides and biocontrol agents. Pl. Dis. Res. 35(1):36-41.	4.76
60.	Parvathi Bennurmth, Dipal S. Bhatt, Meghalakshmi Guddad, Sudha Patil and S.L. Chawla. 2020. Assessment of qualitative and quantitative parameter of different chrysanthemum genotypes. Indian J. Pure App. Biosci. 8(6):235-240.	4.74
61.	Suchismita Jena, Ahlawat, T.R., Patel, A.I., Pandey, A.K., Dharmishtha Patel and Chaudhary Abhijit. 2020. Comparative growth performance of papaya hybrids and their parents under reciprocal crossing system. Journal of Experimental Agriculture International. 42 (9): 167-173.	4.69
62.	Rathod, K.D., Ahlawat, T.R., Sanjeev Kumar, Sarkar, M. and Chakraborty, B. 2021. Effect of plant growth regulators on growth, yield and quality of strawberry cv. Winter Dawn under open field conditions of South Gujarat. Agricultural Science Digest. 10.18805/ag.D-5240.	4.21
63.	Bhavika R. Dobariya, Diwakar Singh, Kiran P. Suthar and Vipul B. Parekh. 2020. Phenylpropanoid pathway leads to salinity stress tolerance in castor (<i>Ricinus communis</i> L.). International Journal of Topical Agriculture. 38(1): 313-328.	3.94
64.	Reetu Mehta, Diwakar Singh, S.C. Mali and D.U. Patel. 2020. <i>In-vitro</i> optimization and rapid micropropagation of two elite sugarcane varieties Co 86032 and CoC 671 by shoot tip culture. International Journal of Topical Agriculture. 38(4): 289-298.	3.94
65.	Kadivar Mohhammadfarid U., Singh, N. and Chaudhari, D.J. 2020. Economics and resource use of bottle gourd production in Navsari district of Gujarat state. The Journal of Rural and Agricultural Research. 20 (2): 1-5	3.89
66.	Pargi Arti and Leua, A. 2020. An analysis of resource use efficiency of banana for South Gujarat. International Journal of Social Sciences. 8(7-9):274-277	2.72
67.	Alka Singh. 2020. Floriculture at Navsari Agricultural University- An Overview. An International Journal of Floriculture Science and Landscaping-The Journal Of Greens and Gardens. 2(4):22-28.	-
68.	Mogal C.S., Jha Sanjay, Suthar Harish, Parekh Vipulkumar and Rajkumar B.K. 2020. Efficiency of Plant Growth Promoting Rhizobacteria (PGPR) consortia for modulation of phytohormone and better nutrient acquisition. Plantae Scientia. 03	-

	(4): 20-29.	
69.	Dushyant D. Champaneri, Jilen M. Mayani, Hayusha N. Pancholi, Jinal B. Patel, and Urvi V. Bangoria. 2020. Effect of different blanching methods on physical and colour characteristics of <i>Moringa oleifera</i> L. dry leaf powder. International Journal of Latest Trends in Engineering and Technology. 16(1): 034-037. Doi: http://dx.doi.org/10.21172/1.162.03 e-ISSN:2278-621X	-
70.	Parmar, G. and Leua, A. 2020. Impact of Covid-19 on agriculture: A case study of okra in South Gujarat. EPRA International Journal of Research and Development. 5(8): 274-277.	-
71.	Dhoti, S.D., Patel, M.M., Jyoti Uppar and Tandel, B.M. 2020. Effect of Integrated Nutrient Management on Growth and Yield of Senna (<i>Cassia angustifolia</i> Vahl). Indian J. Pure App. Biosci. 8(5): 456-461.	-

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	00
	International	01
No. of research articles having NAAS rating of between 5.0 to 7.0	National	53
	International	01
No. of research articles having NAAS rating of below 5.0	National	16
	International	00
	Total	71

6.3 Conference Papers

S.N.	Conference Papers
1.	Chaudhari, B.N., Patel, A.I., Saravaiya, S. N. and Vashi, J. M. 2020. Expression of heterosis and combining ability analysis in inter-variety crosses of egg plant (<i>Solanum melongena</i>). In.: "Indian Horticulture Summit- 2020, Organized by Society for Horticulture Research and Development, Ghaziabad, U.P., 14-16 February 2020 pp.30.
2.	Patel, Krishna, Patel, A.I., Saravaiya, S. N., Vashi J. M. and Chaudhari, B. N. 2020. Study of heterosis and combining ability analysis to identify superior F ₁ hybrids for yield and quality improvement in tomato (<i>Solanum lycopersicum</i> L.). In.: "Indian Horticulture Summit- 2020, Organized by Society for Horticulture Research and Development, Ghaziabad, U.P., 14-16 February 2020 pp.33.
3.	Rathva, D., Patel, A. I., Saravaiya, S.N., Vashi, J.M and Chaudhari, B. N. 2020. Studies on genetic divergence for fruit yield and its components in okra [<i>Abelmoschus esculentus</i>] genotypes under South Gujarat conditions. In: "Indian Horticulture Summit- 2020, Organized by Society for Horticulture Research and Development, Ghaziabad, U.P., 14-16 February 2020 pp.35.
4.	V. Sravani and S. N. Saravaiya. 2020. Effect of plant bioregulators on growth, yield, biochemical and storage attributes of onion (<i>Allium cepa</i> L.). In.: National Webinar on Approaches Towards Onion Cultivation, 26-27 May, 2020 pp. 83-90.
5.	Dev Raj. 2020. Potential of 'Noni' (<i>Morindacitrifolia</i>) Fruit Juice Processing and Value-Addition. <i>Book of Abstracts. Indian Horticulture Summit – 2020 on Mitigation Climatic Changes and Doubling Farmers' Income through Diversification, 14-16 February 2020 at MGCGV, Chitrakoot (M.P.), Organised by SHRD, Ghaziabad (U.P.), India.</i> (pp. 198).
6.	Dev Raj and Jaysukh M. Vaghashiya. 2020. Preparation of <i>Aloe vera</i> based Blended

	Nectar and its Storage Stability. <i>Book of Abstracts. Indian Horticulture Summit – 2020 on Mitigation Climatic Changes and Doubling Farmers’ Income through Diversification, 14-16 February 2020 at MGCGV, Chitrakoot (M.P.), Organised by SHRD, Ghaziabad (U.P.), India. (pp. 203).</i>
7.	Dev Raj and Zinzala Paresh B. 2020. UV Light Effect on Quality of Aloe vera based Blended Nectar During Storage. <i>Book of Abstracts. Indian Horticulture Summit – 2020 on Mitigation Climatic Changes and Doubling Farmers’ Income through Diversification, 14-16 February 2020 at MGCGV, Chitrakoot (M.P.), Organised by SHRD, Ghaziabad (U.P.), India. (pp 204).</i>
8.	Nazaneen N. S., A. K. Senapati, P.S. Pandit and Dev Raj. 2020. Development of Osmo Dried Pineapple (<i>Ananascomosus</i>) cubes and its quality evaluation. <i>Book of Abstracts. Indian Horticulture Summit – 2020 on Mitigation Climatic Changes and Doubling Farmers’ Income through Diversification, 14-16 February 2020 at MGCGV, Chitrakoot (M.P.), Organised by SHRD, Ghaziabad (U.P.), India. (pp. 206).</i>
9.	Naik Kaushal, A. K. Senapati and D. Raj. 2020. Preparation of Aonla Shreds and its Quality Evaluation. <i>Book of Abstracts. Indian Horticulture Summit – 2020 on Mitigation Climatic Changes and Doubling Farmers’ Income through Diversification, 14-16 February 2020 at MGCGV, Chitrakoot (M.P.), Organised by SHRD, Ghaziabad (U.P.), India. (pp. 205).</i>
10.	Fruits. In: Ahlawat, T.R., Gunaga, R.P. Sankanur, M.S., Sinha, S.K., Chaudhary, A.D. and Patel, H.S. (Eds.), <i>Utilization and Conservation of non-timber forest genetic resources for sustainable development: Book of abstract-poster presentation of National Conference, February 27-29, 2020 (pp.76).</i> Navsari Agricultural University, Navsari.
11.	Musmade, NA, Suthar, KP, Pawar RD and Mahatma L (2020) Synthesis of chitosan mediated silver nanoparticles (AgNO ₃) for potential antifungal application. Presented in National symposium on plant Health management, COA, NAU, Navsari. 2-4 November 20120, Department of Biotechnology and Crop Improvement, College of Horticulture, GKVK post, Bengaluru, a constituent college of the University of Horticultural Sciences, Bagalkot
12.	N. A. Musmade, K. P. Suthar, R. D. Pawar and Lalit Mahatma (2020) Chitosan mediated silver nanoparticles (AgNPs) with potential antifungal activities. Virtual International Conference on Chemical Sciences in Sustainable Technology and Development, (IC2S2TD-2020), 1st – 3rd December 2020

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.	Sable, P.A. Saravaiya, S. N. and Sharma Ankur. 2020. <i>Vegetable Crops : Package of Practices.</i> Narendra Publishing House, Delhi, 625 p	978-93-89235-23-4
3.	Kaswala, A.R., Dubey, P.K., Italiya, A.P. and Patel, K.G. 2020. Gujaratma sendriya khetina sanshodhanoni safar (1993-2019). <i>Pub. Organic Farming Cell, ACHF, Navsari Agricultural University, Navsari-396450 (Gujarat). Uni.Pub. no. 26/2020-21.pp 01-124.</i>	University Publication No. 52/2020-21
4.	Kaswala, A.R., Dubey, P.K., Italiya, A.P. and Patel, K.G. 2020. Sendriya Kheti: Khedutoupyogi Sanshodhano. <i>Pub. Organic Farming Cell, ACHF, Navsari Agricultural University, Navsari-396450 (Gujarat).</i>	University Publication No. 26/2020-21.

6.5 Booklets

S.N.	Booklets	Publication No.
1.	Saravaiya, S.N. and Sanjeev Kumar. 2020-21. Department of Vegetable Science – At a Glance. Department of Vegetable Science, ASPEE College of Horticulture & Forestry, NAU, Navsari.	University Publication No. 46/2020-21.
2.	O. P. Sharma, Sanjeev Kumar, Viral P. Prajapati and Tulsi D. Gurjar. 2020. <i>VAN UDYAN</i> (2019-20). ASPEE College of Horticulture & Forestry, NAU, Navsari.	University Publication No. 03/2020-21.
3.	O. P. Sharma, Dixta D. Prajapati and Sanjeev Kumar. 2020-21. Annual Report (2018-19). ASPEE College of Horticulture & Forestry, NAU, Navsari. 194p.	-
4.	O. P. Sharma, Sanjeev Kumar and Dixta D. Prajapati. 2020-21. Annual Report (2019-20). ASPEE College of Horticulture & Forestry, NAU, Navsari. 178p	-
5.	Dr. P. R. Patel, Dr. Hemant Sharma, Dr. V. P. Prajapati and Dr. H. V. Pandya. “ <i>Chikuma sukara (wilt) no rog ane tenu niyantran</i> ”. Published by Department of Plant Protection, ACHF, Nau, Navsari	

6.6 Book Chapters

S.N.	Book Chapters	ISBN
1.	Sharma, Ankur Sable P.A., Saravaiya, S.N. and Patel, Himani B. 2020. Leafy Vegetables. <i>In: Vegetable Crops: Package of Practices</i> (P.A. Sable, S.N. Saravaiya, Ankur Sharma, Eds.). Narendra Publishing House, Delhi, pp 420-496.	978-93-89235-23-4
2.	Saravaiya, S.N., Desai, K.D., Desai, G.B. and Chaudhari, B.N. 2020. Tuber Vegetables. <i>In: Vegetable Crops: Package of Practices</i> (P.A. Sable, S.N. Saravaiya, Ankur Sharma, Eds.). Narendra Publishing House, Delhi, pp 497-565.	978-93-89235-23-4
3.	Sravani, V; Saravaiya, S.N. and Ashok, P. 2020. Induction of Seedlessness in Cucurbits. <i>In: Research Trends in Horticulture Sciences</i> , Vol. 15 (Manoj Kumar Ahirwar, Ed.). AkiNik Publications, New Delhi, pp . 89-102.	978-93-90420-15-5
4.	Sanjeev Kumar, A.K. Pandey, N.S. Thakur and R.P. Gunaga. 2020. IPR and its role on conservation and management of forest genetic resources. <i>In: Farmers' Prosperity through Improved Agricultural Technologies</i> (Hemant Kumar Singh, Shashank Shekhar Solankey and Manoj Kumar Roy Eds.). Kalyani Publishers, Ludhiana. 313–337pp.	978-93-89996-51-7
5.	Patel, M.A., Chawla, S.L., Shah. H.P., Dipal Bhatt, Sudha Patil and Kirankumari. 2020. Rooftop gardening: An ideal concept for green city towards sustainable living. <i>In: Horticulture in The Vanguard of Climate Change</i> . Garden Glory Human Empowerment co-operative Ltd. Jammu. pp. 87-91.	978-93-5407-228-4
6.	Waghunde, R.R., Shelake, R.M., Pramanik, D., Suthar, H., Pandey, P., Kim, J.Y. 2021. Application of cereal and vegetable endophytes in plant health management. <i>In: Microbiomes and Plant Health</i> , Academic Press (Elsevier), pp: 29-51.	978-0-12-819715-8

7.	Pareek, N., Swami, P. and Gupta, S. 2021. Agromet advisory services to minimize weather risk in agricultural planning. <i>In: Agroforestry Practices and Climate Change</i> . New Delhi Publication pp. 37-44.	978-81-950753-6-2
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6.7 Popular Articles

S.N.	Popular Articles	Language
1.	P.P. Bhalerao. 2020. Naliyarima nikasni tako. Bagayati pedash: Aayat-nikas halni paristhiti ane bhavi, 81: Jan-March-2021: 43-54.	Gujarathi
2.	Sanjeev Kumar, Rathod Hetal and Saravaiya, S.N. 2020. Coronani vaishwik Mahamari Darmiyan Bharat ma Terrace Gardenni Sambhavanani shodhkhol. <i>Krushi Govidhya</i> . 9 (873): 19 -27.	Guajarati
3.	Sanjeev Kumar, Saravaiya, S.N., Patel, N.B. and Bhakti B. Panchal. 2020. Kitchen Gardenma Plot Aadharit Shakbhajinu Aayojan. <i>In: Kitchen Garden-Terrace Garden Taalim- Training Manual (R.M. Bhuva, Ed.)</i> , Directorate of Extension Education, Navsari Agricultural University, Navsari, University Publication No. 44/2020-21-20. pp. 12-17.	Gujarati
4.	Sanjeev Kumar, Saravaiya, S.N., Bambhaniya Kinjal K. and Hetal Rathod. 2020. Terrace Garden Antargat Pak Utpaadan Paddhtiyo. <i>In: Kitchen Garden-Terrace Garden Taalim- Training Manual (R.M. Bhuva, Ed.)</i> , Directorate of Extension Education, Navsari Agricultural University, Navsari, University Publication No. 44/2020-21-20. pp. 45-52.	Gujarati
5.	Patel, M.A., Chawla, S.L. And Alka Singh. 2021. <i>Bharatma Phool udyogno Vikas and Nikasni Tako</i> . Bagayati Pedash: Aayat- Nikas Halni Paristhiti ane Bhavi. Gujarat Bagayat Vikas Parishad. pp. 66-69.	Gujarati
6.	Sinha, S.K., Gunaga, R.P., Ahlawat, T.R., Sankanur, M.S., Mehta, A.A. and Hegde, H.T. (2020). Vyaysayikroop se mahatvapurna vruksasavrit gond ko pechane ke tarike. <i>Van Sangyan</i> , 7(10): 21-26.	Hindi
7.	Sanjeev Kumar, Hetal Rathod, Saravaiya, S.N. and Patel, N.B. 2020. Sanrakshit kheti mein svasthaya avam suraksha ka mahatava tatha upyogita. <i>Krishi Jivan</i> . 24 (1): 30-31.	Hindi
8.	Sanjeev Kumar, Saravaiya, S.N. and Mital Dudhat. 2021. Sabjion Mein Jaivik Aur Ajaivik Samasyaon ke Nivaran hetu Kalam Pravandhan (Grafting) kee Upyogita. <i>Abhinav Krishi</i> . March-2021. 3 (1): 5-8.	Hindi
9.	Diwakar Singh and Reetu Mehta. 2020. Kisan Bill 2020, Contract Farming aur Anndata Astitava. <i>Anantvakta</i> . 20: 9-10.	Hindi
10.	P.P. Bhalerao and H.P. Maheswarappa. 2020. Doubling the farmers' income through coconut farming by intercropping of turmeric. <i>Indian Coconut Journal</i> , LXII (9): 05-09.	English
11.	P.P. Bhalerao and H.P. Maheswarappa. 2020. Organic farming in coconut: A success story from Gujarat. <i>Indian Coconut Journal</i> , June-2020: 18-19.	English
12.	Sankanur, M.S., Gunaga, R.P., Sinha, S.K. and Ahlawat, T.R. (2020). Boosting income of tribal artisans by utilizing waste wood for novel handicrafts. <i>MFP News</i> , 30(3): 5-7.	English
13.	Hegde, H.T., Gunaga, R.P., Sinha, S.K., Sankanur, M.S., Mehta, A.A. and Ahlawat, T.R. (2020). Mahua Trading Scenario: Challenges and Chances. <i>Indian Farmer</i> , 8(2): 184-190.	English

14.	Sarkar, M.; Desai K.D.; Patel B.K. and Patel, Himani B. 2020. Sustainable strategies for disease and pest management in elephant foot yam. <i>Agriculture Letters</i> , 1 (6): 83-86.	English
15.	Alka Singh, Sachin Chavan, A.J. Bhandari, H.P. Shah, Sindhuja, M. Patel, A.I. and Vipul Parekh. 2020. New profuse flowering varieites in Adenium. <i>Floriculture Today</i> , 24(09): 22-24	English
16.	Alka Singh. 2020. Management of potted ornamentals. <i>Nursery Today</i> , 7(07): 40-46.	English
17.	Alka Singh. 2020. New multipetalous varieties in Adenium. <i>Nursery Today</i> , 7(09): 34-37.	English
18.	Gupta, S. 2021. Role of Agrometeorological Services in Climate Smart Agriculture. <i>Reader Shelf Magazine</i> .	English

6.8 Technical Bulletins by the faculty

S.N.	Popular Articles	Language
1.	Ahlawat, T.R., Gunaga, R.P., Sankanur, M.S., Sinha, S.K. and Abhijit Chaudhary. 2020. <i>Manual of Hands-on-Training on Waste Utilization and Value Addition of Non-Timber Forest Resources</i> . Hands-on-Training Program organized under NAHEP-CAAST sub-project at Navsari Agricultural University, Navsari from January 22-24, 2020.	English
2.	Rana Ranjeet Singh and Ahlawat, T.R. 2020. <i>Manual of Training Program on Dairy Farm Mechanization and Automation</i> . Hands-on-Training Program organized under NAHEP-CAAST sub-project at Navsari Agricultural University, Navsari from February 19-21, 2020.	English
3.	Ahlawat, T.R., Gunaga, R.P., Sankanur, M.S., Sinha, S.K., Chaudhary, A.D. and Patel, H.S. 2020. <i>Book of Abstracts: Oral and Poster Papers of National Conference on Utilization and Conservation of Non Timber Forest Genetic Resources for Sustainable Development</i> organized by Navsari Agricultural University from February 27-29, 2019.	English

6.9 Research Abstracts

S.N.	Abstract
1.	Dharmishtha, Patel, Ahlawat, T.R., Chaudhary, A.D. and Suchismita Jena. 2020. Commercialization of Non-Timber Forest Products. <i>In: National Conference on Utilization and Conservation of Non-Timber Forest Genetic Resources for Sustainable Development</i> , February 27-29, 2020, pp. 58
2.	Dharmishtha Patel, Chaudhary, A.D., Ahlawat, T.R. and Sankanur, M.S. 2020. Non-Timber Forest Products: Potential pillars for sustainable forestry, <i>In: National Conference on Utilization and Conservation of Non-Timber Forest Genetic Resources for Sustainable Development</i> , February 27-29, 2020, pp. 168.
3.	Khalasi, D.N., Ahlawat, T.R. and Pooja R. Naik. 2020. Gum: A emerging source of forest for processing industry. <i>In: National Conference on Utilization and Conservation of Non-Timber Forest Genetic Resources for Sustainable Development</i> , February 27-29, 2020, pp. 112.
4.	Khalasi, D.N., Ahlawat, T.R. and Pooja R. Naik. 2020. Fruit peel: A source of waste utilization. <i>In: National Conference on Utilization and Conservation of Non-Timber Forest Genetic Resources for Sustainable Development</i> , February 27-29, 2020, pp. 113.

5.	Chaudhary, A.D., Ahlawat, T.R., Suchismita Jena and Dharmishtha Patel. 2020. Biofuels potential and emerging paradigms in India. <i>In</i> : National Conference on Utilization and Conservation of Non-Timber Forest Genetic Resources for Sustainable Development, February 27-29, 2020, pp. 141.
6.	Kaswala, A.R. Dubey, P.K. Italiya, A.P. and Patel, K.G. Recycling of farm residues for organic banana production. e-Poster presented in World Soils Day Celebration-2020 under National e-Posters Olympiad organized by the Soil Conservation Society of India, New Delhi during December 04-05, 2020.

6.10 Pamphlets-Leaflets-Folders

S.N.	Details	Pamphlets - Leaflets-Folders	Publication No.
1.	Tandel, Y.N., Tandel B.M., Saravaiya, S.N. and Patel Urvina. 2020	Folder	<i>Aatma</i> Project Valsad
2.	Saravaiya, S.N., Patel N.B., Tandel, Y.N. and Panchal Bhakti B. 2021	Folder	<i>Aatma</i> Project Valsad
3.	Sudha Patil, Dipal S. Bhatt, Chawla, S.L., Patel, M. A. and Parmeshvari Chaudhary. 2021. <i>Gladiolus Ni Kheti</i> . Directorate of Extension Education, Navsari Agricultural University, Navsari.	Folder	68/2020-21
4.	Dipal S. Bhatt, Sudha Patil, Chawla, S.L. and Patel, M. A. 2021. <i>Sevantinikheti</i> . Directorate of Extension Education, Navsari Agricultural University, Navsari.	Folder	69/2020-21
5.	P.R. Patel, Hemant Sharma, V.P. Prajapati and H.V. Pandya. <i>Chikuma sukara (wilt) no rog ane tenu niyantran</i> . Department of Plant Protection, ACHF, Nau, Navsari	Folder	-

6.11 TV Talks

S.N.	Name of faculty	Topic/Title	Date	Radio/ TV talk
1.	Dr. S.N. Saravaiya	<i>Velavala Shakbhaji na Pako ma Avrodhak Paribal</i>	06/01/2021	TV Telecast (Live)
2.	Dr. Alka Singh	<i>Vichar-Vimarsh-Phoolo ki kheti</i>	01/01/2021	TV-DD Kissan



TV Talk by Dr. S. N. Saravaiya



TV talk by Dr. Alka Singh

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

S.N.	Faculty	Activity details	Date/ Period	Place/ Institute
Activity as Resource Person				
1.	Dr. Dev Raj	Post harvest management and value addition of Horticultural crops	30/05/2020	Webinar at ATIC
2.	Dr. Y.N. Tandel	Krushi Gosthi on scientific cultivation of sapota	09/06/2020	NAU, Navsari
3.	Dr. Alka Singh	Webinar "Home and Terrace Gardening"	20/06/2020	Indian Nurserymen Association, New Delhi
4.	Dr. Alka Singh	Workshop "Floriculture as agri-enterprise for start-ups-Potted Plant: A Promising Enterprise for Start ups"	23/06/2020	MHU, Karnal
5.	Dr. Alka Singh	One day training program "Post harvest Management and Arrangement of Flowers"	23/06/2020	Central Institute of Horticulture, Medziphema, Dimapur
6.	Dr. Alka Singh	E-Krishi Goshthi: Phul pakoni aadarsh kheti paddhati ane teni tantrikata/bhalamano	23/06/2020	NAU, Navsari
7.	Dr Dev Raj	Drying and Dehydration of Fruits and Vegetables	23-06-2020	National Webinar on "SCM and Value Addition of Perishable Horticultural Crops during COVID-19" at AU, Kota
8.	Dr Dev Raj	Post harvest management and value addition of Horticultural crops	04/07/2020	Webinar at ATIC
9.	Dr. S.L. Chawla	Lawn Management (management practices, fertilization and irrigation)	06/08/2020	Webinar organized by Indian Nurserymen Association (INA)
10.	Dr. H.P. Shah	Lawn Management (management practices, fertilization and irrigation)	06/08/2020	Webinar organized by Indian Nurserymen Association (INA)
11.	Dr Dev Raj	Post Harvest Management And Value Addition In Horticultural Crops	12/08/2020	Webinar by Progressive Horticulture Journal
12.	Er. P.S. Pandit	Webinar on 'Scope of Agril. Entrepreneurship development' Lecture on 'Post harvest technology for Entrepreneurship development'	19-21/08/2020	Dept. Of Agronomy, CoA, NAU, Bharuch

13.	Dr. A.R. Kaswala	Lecture delivered on "Sajivkhetini Samaj ane Alasiyanu Khatar Banavvani Padhdhti"	26-08-2020	KVK, Vyara
14.	Dr. H. V. Pandya	Rodent Pest Management	28/08/2020	National Institute of Plant Health Management, Hyderabad
15.	Dr Dev Raj	Secondary Processing and value addition in fruit crops	22/09/2020	Webinar on Post Harvest management, processing and value addition of Fruit Crops organized by Horticulture Training Institute, Deptt of Horticulture, Uchani, Karnal
16.	Dr Dev Raj	Secondary Processing and value addition in vegetable crops	22/09/2020	Webinar on Post Harvest management, processing and value addition of vegetables organized by Horticulture Training Institute, Deptt of Horticulture, Uchani, Karnal
17.	Dr. S.L. Chawla	Sustainable Turf Grass (Lawns) for Smart Cities and Smart Urban Farmers	26/09/2020	Webinar organized by Indian Nurserymen Association (INA)
18.	Dr Dev Raj	Post Harvest Management And Value Addition Of Underutilized Fruit Crops	30/09/2020	Webinar by Underutilized fruits: Converting wasteland into Goldmine organized by COA Bharuch NAU
19.	Dr. P.R. Patel	"Shakbhajina Pakoma Sankalit Rog Vyavasthapan" in one day webinar on "Shiyalu Shakbhajina Pakoma Pak Sanrakshan" jointly organized by Plant Protection Association of Gujarat (PPAG)	06/10/2020	Anand Agricultural University, Anand
20.	Dr. B.M. Tandel	Farmers training programme	14/10/2020	SSK, Navsari

21.	Dr. B.M. Tandel	Farmers training programme	15/10/2020	T and V, NVS
22.	Dr. S.L. Chawla	Carrier Opportunities in Turf grass management	15/10/2020	Webinar on Recent Trends in Floriculture and Landscape Industry SDAU, Dantiwada.
23.	Dr. Sanjeev Kumar	<i>Kitchen Gardenma Plot Aadharit Shakhajinu Aayojan.</i>	21/10/2020	Online Kitchen Garden-Terrace Garden Taalim-Training (19-10-2020 to 23-10-2020) organized by AGRO ITI, NAU, Navsari
24.	Dr. Alka Singh	Webinar “Indoor Gardening Benefits and Perspectives”	21/10/2020	CPWD, Ghaziabad
25.	Dr. Sanjeev Kumar	<i>Terrace Garden Antargat Pak Utpaadan Paddhtiyo.</i>	23/10/2020	Online Kitchen Garden-Terrace Garden Taalim-Training (19-10-2020 to 23-10-2020) organized by AGRO ITI, NAU, Navsari
26.	Dr. J.M Vashi	<i>kitchen garden ne sanlagan anya upyogi salah</i>	23/10/2020	Online Kitchen Garden-Terrace Garden Taalim-Training (19-10-2020 to 23-10-2020) organized by AGRO ITI, NAU, Navsari
27.	Dr. P.R. Patel	"Fal Pakoma Rognu Jaivik Vyavasthapan" in one day webinar on “Sajeev Kheti ma Pak Sanrakshan” jointly organized by Plant Protection Association of Gujarat (PPAG)	27/10/2020	Anand Agricultural University, Anand
28.	Dr. Diwakar Singh	Lecture delivered in Online Workshop on HPTLC Technique and its Applications in Agriculture	03/11/2020	ACHF, NAU, Navsari
29.	Dr. Alka Singh	Interactive Lecture “Gardening : A wonderful hobby and a promising career option”	11/11/2020	University of Delhi
30.	Dr. Alka Singh	Webinar “Sustainable Eco Friendly Home Gardening and Green Décor (Chapter II)”	12/11/2020	Indian Nurserymen Association, New Delhi

31.	Dr. Alka Singh	Webinar “Edible Flowers Cultivation, Processing and Marketing”	20/11/2020	NCPAH, New Delhi
32.	Dr. Alka Singh	Webinar “Sustainable Eco Friendly Home Gardening and Green Décor (Chapter III)”	21/11/2020	Indian Nurserymen Association, New Delhi
33.	Dr. A.R. Kaswala	Lecture delivered on “ <i>Sajiv Khetima Sanshodhit Poshak Vyavsthapan</i> ” during state level webinar on <i>Sajiv Kheti- Takau Krushino Vaignanik Abhigam</i>	25/11/2020	COB, NAU, Bharuch
34.	Dr. P.K. Dubey	Lecture delivered on “ <i>Sajiv Kheti- Certification & Bajar Vyavsthapan</i> ” during state level webinar on <i>Sajiv Kheti- Takau Krushino Vaignanik Abhigam</i>	25/11/2020	College of Agriculture, NAU, Bharuch
35.	Er. A.K.Senapati	On line lead talk on Post harvest management and processing of vegetable crops	27/11/2020	NAU, Navsari
36.	Dr. Sanjeev Kumar	Technological Intervention for the production of stress resilient planting material in vegetables through Grafting	28/11/2020	Technical Session- Plant Nursery Management & its Business Aspects, Seed for Future: Webinar Series organized by Indian Nursery men Association, New Delhi
37.	Dr. S.L. Chawla	Protected cultivation of high value Flowers	08/12/2020	ICAR Entrepreneurship Development Program entitled “Protected Cultivation of Horticultural Crops GBPUAT, Pantanagar
38.	Dr. A.R. Kaswala	Lecture delivered on Organic Farming	08/12/2020	College of Agriculture, NAU, Waghai
39.	Dr. H.V. Pandya	Fruit Fly Surveillance; and Management	10/12/2020	National Institute of Plant Health Management, Hyderabad

40.	Dr. Alka Singh	Webinar “Common Herbs and Medicinal Plants for Better Health II”	12/12/2020	Indian Nurserymen Association, New Delhi
41.	Dr. Alka Singh	Webinar “Common Herbs and Medicinal Plants for Better Health II”	12/12/2020	Indian Nurserymen Association, New Delhi
42.	Dr. Y.N. Tandel	Scientific cultivation of mango	21/12/2020	ATMA, Valsad & SSK, NAU, Navsari
43.	Dr. Y.N. Tandel	Scientific cultivation of mango	22/12/2020	ATMA, Valsad & SSK, NAU, Navsari
44.	Dr. Alka Singh	Webinar “Dry Flower- A New Edge in Entrepreneurship in Floriculture Industry”	23/12/2020	Deptt. Of Horticulture College of Agriculture, JAU, Junagadh
45.	Dr. Sanjeev Kumar	Soil-less culture: concept and application	30/12/2020	Winter Training Program orgaized by Institute of Biological Sciences and Institute of Agricultural Sciences, SAGE University, Indore
46.	Dr. Alka Singh	Soilless Cultivation of Ornamental crops	31/12/2020	Training on Hydroponic Technology from soil to water SAGE University, Indoor
47.	Dr. S.N. Saravaiya	Potential of underutilized vegetable crops, Online Seminar on Underutilized horticultural Crops under World Bank & ICAR funded NAHEP – CAAST Project	05/01/2021	College of Horticulture, Anand and Center for Agricultural Market Intelligence, Anand Agricultural University Anand
48.	Dr. B.M. Tandel	Farmers training programme	06/01/2021	FTC, Navsari
49.	Dr. A.R. Kaswala	Lecture delivered on “Irrigation water analysis techniques, guidelines for water quality assessment” during five days online vocational training on "Soil Testing as a business opportunity" under NAHEP-IDP.	04-08/01/2021	JAU, Junagadh
50.	Dr. Sanjeev Kumar	Protected cultivation of medicinal and aromatic plants	06-10/01/2021	Training programm on Good Agricultural Prcactices, Post harvest Processing

				and Market Linkages of Medicinal Plants organized by Zandu Foundation for Health Care, Ambach
51.	Dr. B.M. Tandel	Farmers training programme	12/01/2021	FTC, Navsari
52.	Dr. J.M Vashi	<i>kitchen garden viseni mahitane prasnani charcha</i>	15/01/2021	SSK, NAU, Navsari
53.	Dr. B.M. Tandel	Farmers training programme	18/01/2021	ATMA, Navsari
54.	Dr. B.M. Tandel	Farmers training programme	19/01/2021	ATMA, Navsari
55.	Dr. B.M. Tandel	Farmers training programme	20/01/2021	FTC, Navsari
56.	Dr. B.M. Tandel	Farmers training programme	21/01/2021	FTC, Navsari
57.	Dr. Dipal S. Bhatt	Lecture on <i>Sevantini Kheti</i>	27/01/2021	Field day on Gladiolus and Chrysanthemum day celebration, AICRP on Floriculture, ACHF, NAU, Navsari on 27/01/2021
58.	Dr.Sudha Patil	Lecture on <i>Gladiolusni Kheti</i>	27/01/2021	Field day programme on Gladiolus and Chrysanthemum day celebration, AICRP on Floriculture, ACHF, NAU, Navsari on 27/01/2021
59.	Dr. Alka Singh	Flower arrangement techniques	02/02/2021	Training programme on " <i>Bonsai Ane Phooloni Gothavan</i> " under Establishment of Agro ITI Centre for Agriculture & Horticulture organized by DEE, NAU, Navsari held from 02/02/2021 to 05/02/2021NAU, Navsari
60.	Dr. H.P. Shah	Lecture on <i>Bonsai mate kunda ni pasandgi ane ojarni jaruriyato ane anyachij vastuo ane sadhano</i>	02/02/2021	Training programme on " <i>Bonsai Ane Phooloni Gothavan</i> " under Establishment of Agro ITI Centre for Agriculture &

				Horticulture organized by DEE, NAU, Navsari held from 02/02/2021 to 05/02/2021
61.	Dr. Alka Singh	Bonsai Styles	03/02/2021	-do-
62.	Dr. Dipal S. Bhatt	<i>Phooloni Pasandgi, cut flowers ane filler flowers na prakar ane phooloni gothavani mate na pot na prakar</i>	03/02/2021	Training programme on “ <i>Bonsai Ane Phooloni Gothavani</i> ” under Establishment of Agro ITI Centre for Agriculture & Horticulture organized by DEE, NAU, Navsari held from 02/02/2021 to 05/02/2021
63.	Dr.Sudha Patil	<i>Phoolone surakshit rakhvani padhdhati, phooloni gothavani vishe anya upayogi salah</i>	04/02/2021	Training programme on “ <i>Bonsai Ane Phooloni Gothavani</i> ” under Establishment of Agro ITI Centre for Agriculture & Horticulture organized by DEE, NAU, Navsari held from 02/02/2021 to 05/02/2021
64.	Dr. Alka Singh	Practical on Flower Arrangement: Western & Ikebana	05/02/2021	-do-
65.	Dr. G. D. Patel	Practical on Bonsai preparation	05/02/2021	Training programme on “ <i>Bonsai Ane Phooloni Gothavani</i> ” under Establishment of Agro ITI Centre for Agriculture & Horticulture organized by DEE, NAU, Navsari held from 02/02/2021 to 05/02/2021
66.	Dr. J.M Vashi	<i>kitchen garden viseni mahiti ane prasnani charcha</i>	17/02/2021	SSK, NAU, Navsari
67.	Dr. B.M. Tandel	Farmers training programme	18/02/2021	FTC, Navsari
68.	Dr. J.M Vashi	<i>kitchen garden viseni mahiti ane Amba chikuna</i>	19/02/2021	SSK, NAU, Navsari

		<i>prasnoni charcha</i>		
69.	Dr. J.M Vashi	<i>Gharanganana Shakhajiane Amba chikuna Prashnoni charcha</i>	19/02/2021	SSK, NAU, Navsari
70.	Dr. S.L. Chawla	Turfgrass management	03/03/2021	Certified Farm Advisor Programme (Module-II) on Floriculture, ICAR-DFR, Pune and MANAGE, Hyderabad
71.	Dr. B.M. Tandel	Farmers training programme	05/03/2021	FTC, Navsari
72.	Dr. B.M. Tandel	Farmers training programme	09/03/2021	FTC, Navsari
73.	Dr. Sanjeev Kumar	Vegetable Grafting	09-10/03/2021	Krishi Mela cum Training Programme jointly organized by KVK, Narmada and CPRI, Shimla
74.	Dr. Y.N. Tandel	Scientific cultivation of mango	19/03/2021	Dept. of Horticulture, DDH, GoG, Navsari
75.	Dr. B.M. Tandel	Farmers training programme	19/03/2021	FTC, Navsari
76.	Dr. V.P. Prajapati	Amba Pakona Rogo ane tenu niyantran Jointly organized by Unnat Bharat Abhiyan, Govt. of Gujarat.	31/03/2021	GEC, Valsad
Activity as Interviewer				
77.	Dr. H. V. Pandya	SRF	01/12/2020	Office of the Director of Research, NAU, Navsari
Activity as Judge				
78.	Dr. N.V. Patel	Evaluation of 'Health based home made recipes' organised by KVK, Navsari as a part of Women's Day celebration	08/03/2021	KVK, Navsari

આણંદ કૃષિ યુનિ. દ્વારા ઓનલાઇન સેમિનાર

આણંદ: આણંદ કૃષિ યુનિવર્સિટી ખાતે Underutilized Horticultural Crops વિષય પર સેન્ટર ઓફ એગ્રીકલ્ચરલ માર્કેટ ઇન્ટેલિજન્સના હેપ કાર્ટ દ્વારા ઓનલાઇન સેમિનારનું આયોજન કરાયું હતું. આ આયોજિત ઓનલાઇન સેમિનાર પ્રસંગે આણંદ કૃષિ યુનિવર્સિટીના કુલપતિ ડૉ.આર. વી.બ્યાસ તથા મુખ્ય અધિકષિપદેડો. સંજય સિંઘ(પ્રિન્સિપાલ સાઇલેન્ટ ઝોન ડેડ, આઇ.સી.એ.આર-સી.એચ.ઇ.એસ, વેજલપુર, ગોધરા) તેમજ વક્તા પદે ડૉ.પિયુષ વર્મા (પ્રોફેસર, ડેડ, ડીપાર્ટમેન્ટ ઓફ હોટિકલ્ચર, સી.પી. કોલેજ ઓફ એગ્રીકલ્ચર, એસ.ડી.એ.યુ.એસ.કે.નગર) ઉપસ્થિત રહ્યા હતા. આ સેમિનાર પ્રસંગે વક્તાઓએ આગામી પાંચના વિવિધ પાસાઓ પર ચર્ચા કરી હતી.



નવગુજરાત સમય Thu, 07 January 2021 <https://epaper.navgu>

NOHEP Online Seminar on Underutilized Horticultural Crops

Date: 07th January 2021

Jointly organized by
College of Horticulture, ANU, Gandhinagar
&
Center for Agricultural Market Intelligence, Anand Agricultural University, Anand

Organizing Secretary
Dr. Dipak, R. Parashar
Assistant Professor, Department of Plant Science, College of Horticulture, ANU, Gandhinagar

Chief Guest & Key Note Speaker
Dr. P. L. Srani
Principal Scientist (Horticulture), ICAR DMRF, Bapat, Anand

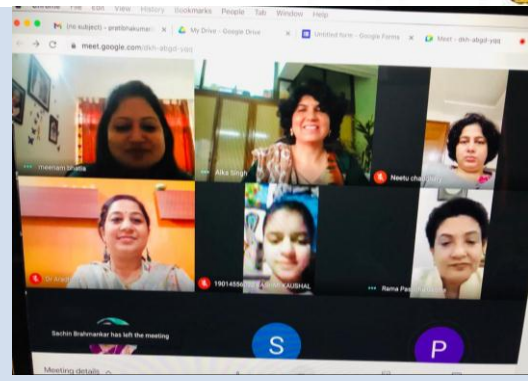
Guest Speakers
Dr. Piyush Verma, Professor & Head, Department of Horticulture, C. P. College of Agriculture, SHRI, S. K. Nagar
Dr. R. V. Wagh, Dr. R. C. Agrawal, Dr. Chandrajit, National Director, ANRI, S. K. S. Gandhinagar

Co-Guests
Dr. V. A. Lad, Assistant Professor & Lecturer, Department of Horticulture, ANU, Gandhinagar
Dr. P. V. Kumar, Assistant Professor & IIT, Horticulture, Anand

Co-Convenor
Dr. R. S. Pandey, Professor & Head, NHEP/CAAT, ANU, Gandhinagar
Dr. Nitin, I. Shah, Principal & Dean, College of Horticulture, ANU, Gandhinagar

Advisors
Dr. Sanjay Singh, Principal Scientist & Head, ICAR-CHE, Walpole, Cochin
Dr. Prabhat Kumar, National Coordinator, NHEP/CAAT, ICR, New Delhi
Dr. V. C. Zala, Principal & Dean, HRI, ANU, Gandhinagar

Registration Link: <https://forms.gle/SdhwPz2ME6tjRjM6>



Indian Nurserymen Association (INA)

Presents Session Eight **LAWN MANAGEMENT**
Day & Date : Thursday; 06/08/2020
Time : 1400 to 1530hrs (90 minutes)

Webinar Partner **BSHF**
#Register Now
#Registration Free

Speakers
Chief Patron: Dr. Brahmoo Singh (Prime Minister & Renowned Horticulturist)
President INA: Shri. Y. P. Singh
General Secretary INA: Shri. Mukul Tyagi
Dr. Manish Kumar Sharma, Asst. Prof. Dept. of Horticulture and Landscape Architecture, Anand Agricultural University
Dr. Harshik P. Shah, Asst. Prof. Dept. of Horticulture and Landscape Architecture, Anand Agricultural University
Dr. Manish Kumar Sharma, Asst. Prof. Dept. of Horticulture and Landscape Architecture, Anand Agricultural University

Moderator: Sachin Bhatnagar, General Secretary INA (Maharashtra Chapter), Landscape Consultant (Director, Alpha Agro & Landscape Services)

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Presents **Discussion on Dry Flowers**
On 23rd August 2020, Sunday 3 PM Onwards

PANEL SPEAKERS
Dr. Ritu Jain, Senior Scientist, Division of Horticulture & Landscaping, IARI, New Delhi
Dr. Mahalakshmi V. Reddy, Founder, VD FLOREALS - Senior Scientist, Chenna first patent in India for flower preservation Technology
Dr. Priyanka Thakur, Principal Horticulturist, BHRS, Dr. YSRUJ, Dravidulabam, Sirmour, Himachal Pradesh
Dr. Alka Singh, H.O.D. of Horticulture & Landscape Architecture, Anand Agricultural University, Anand, Gujarat
Dr. Bharti Kashyap, Asst. Professor, Dept. of Horticulture & Landscape Architecture, Dr. YS Parmar University of Horticulture & Forestry, Solan
Dr. P. Lalitha Kumari, Senior Scientist (Horticulture) & Head, Sri Sri Vigyan Kendra, Pandalam, Dr. YS Parmar University of Horticulture & Forestry, Solan
Ms. Poonam Qamra, Owner, FLOREAL IMAGES, New Delhi
Dr. Suhrita Chakrabarti, Professor, Dept. of Post Harvest Technology, ICVVT, Jajpur

PRESENTERS
Mr. Deepak Gopinath, Zonal Sales Manager, Synthite Industries Pvt. Ltd., Cochin
Mr. Sandeep Bhatia, Coordinator
Dr. Bhagwanrao Patil, Mr. Jitendra, Mr. Shikhar, Mr. V. Prasad, Mr. Chandan, Mr. H. C. Patil, Mr. Vikas, Mr. Manoj

We request you to join our webinar as it will be beneficial for your Flower Business.

<https://us02web.zoom.us/j/3306618676?pwd=cHZCV29Vb3VXNmM29WNDIQYmY0b1pxQT09>



INDIAN NURSERYMEN ASSOCIATION
PRESENTS
SEED FOR FUTURE: WEBINAR SERIES
TECHNICAL SESSION
SUSTAINABLE ECO-FRIENDLY HOME GARDENING AND GREEN DECOR- CHAPTER III
21st NOVEMBER 2020, SATURDAY 2:00 PM TO 4:30 PM



Dr. S. L. Chawla, **Dr. Hemant Sharma**, **Dr. Alka Singh**, **Dr. S. L. Chawla**, **Dr. Hemant Sharma**, **Dr. Alka Singh**

Moderator: **Dr. S. L. Chawla**, **Dr. Hemant Sharma**, **Dr. Alka Singh**

Registration: FREE. Certificate of Participation will be issued to each participant.



NAVASARI AGRICULTURAL UNIVERSITY

એસ્ટાબ્લીશમેન્ટ ઓફ એગ્રી. ટી. આઈ. સેન્ટર ફોર એગ્રીકલ્ચર એન્ડ હોટીકલ્ચર

"બોનસાઈ અને ફૂલોની ગોઠવણી"
વિષય પર તાલીમ

તારીખ: ૦૨ થી ૦૫, ડેવુઆરી, ૨૦૨૧

રજિસ્ટ્રેશન લિંક:
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વિષયક:
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વિસ્તરણ વિભાગ નિયામકશ્રી
નવસારી કૃષિ યુનિવર્સિટી, નવસારી

આયોજન મંત્રી:
ડૉ. આર. એમ. ભુવા
મહાનિયા વિસ્તરણ વિભાગના વહીવટી
વિસ્તરણ વિભાગ નિયામકશ્રી
નવસારી કૃષિ યુનિવર્સિટી, નવસારી

સહ આયોજન મંત્રી:
ડૉ. અલકા સિંઘ
પ્રાધ્યાપક અને વડા
ફ્લોરિકલ્ચર વિભાગ,
એ.સી.એચ.એન્ડ.
નવસારી કૃષિ યુનિવર્સિટી, નવસારી

તાલીમ સહાયકો:
• અમુલ્ય રૂપરૂપી
ખેતીવાડી બનિકારી,
વિસ્તરણ વિભાગ નિયામકશ્રીની કચેરી
નવસારી કૃષિ યુનિવર્સિટી, નવસારી

• સર્વ સહાયક
કિનિચર વિભાગ ફેલો, FFP
વિસ્તરણ વિભાગ નિયામકશ્રીની કચેરી
નવસારી કૃષિ યુનિવર્સિટી, નવસારી

વ્યાખ્યાતા:
૧. ડૉ. અલકા સિંઘ, પ્રાધ્યાપક અને વડા, ફ્લોરિકલ્ચર વિભાગ, આસી બાયબાયન-નવીન પદ્ધતિવિભાગ, વડપુ, નવસારી
૨. ડૉ. એ.સી. સહ, મહાનિયા પ્રાધ્યાપક, ફ્લોરિકલ્ચર વિભાગ, આસી બાયબાયન-નવીન પદ્ધતિવિભાગ, વડપુ, નવસારી
૩. ડૉ. કિલ્લ મજ, મહાનિયા પ્રાધ્યાપક/આયાતન યોજિતેરી, આસી બાયબાયન-નવીન પદ્ધતિવિભાગ, વડપુ, નવસારી
૪. ડૉ. રિલે એસ. ભુવ, મહાનિયા પ્રાધ્યાપક, ફ્લોરિકલ્ચર વિભાગ, આસી બાયબાયન-નવીન પદ્ધતિવિભાગ, વડપુ, નવસારી
૫. ડૉ. કૃષિ પદ્મજ, મહાનિયા પ્રાધ્યાપક, ફ્લોરિકલ્ચર વિભાગ, આસી બાયબાયન-નવીન પદ્ધતિવિભાગ, વડપુ, નવસારી
૬. ડૉ. કુ.ડી. પટેલ, મહાનિયા પ્રાધ્યાપક, ફ્લોરિકલ્ચર વિભાગ, આસી બાયબાયન-નવીન પદ્ધતિવિભાગ, વડપુ, નવસારી

Daulat Ram College
University of Delhi
Garden Committee
Under IQAC
Organizes a Lecture Series
"Redefining Gardening from Hobby to Enterprise: Series 2"
11th November 2020, Wednesday, 2.30 PM - 4.30 PM

Topic 1: Garden Types and its Benefits
Topic 2: Gardening: A Wonderful Hobby and a Promising career option

Dr. Shon Kumar
Scientist "E"
Botanic Garden of Indian Republic, MOEF&CC, GOI

Dr. Alka Singh
Professor and Head
Dept of Floriculture
ACHF, Navsari
Agricultural University
Navsari, Gujarat

Registration link: <https://forms.gle/7ZhyZcRv9k1YQm6>
Last Date of Registration: 10th November 2020 at 10 am
Meeting Link: <https://meet.google.com/dkn-ehst-yqs>
For queries: 9813159338, 9868594458

Principal: Dr. Savita Roy
Convener: Dr. Meenam Bhatia
Co-Convenors: Dr. Leelika Mayangbam, Dr. Prabhika Kumari
Advisor: Dr. Rama Paricha

Sarjanik Education Society
Shree Ramkrishna Institute of Computer Education & Applied Sciences
Affiliated to Veer Narmad South Gujarat University, Surat

Webinar on Gardening : A Live Art for Healthy Living

Speaker: **Dr. Alka Singh**
Professor and Head
Department of Horticulture and Landscape Architecture
ASREE College of Horticulture and Forestry
Navsari Agricultural University
Navsari, Gujarat

Date: 07.10.2020
Time: 11 a.m.

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www.srki.ac.in

6.13 Awards/Fellowships/Recognitions

1) Oral Presentation Award

- Musmade, NA, **Suthar, KP**, Pawar, R.D. and Mahatma L. were adjudged as Third best oral presenter for the presentation "Synthesis of chitosan mediated silver nanoparticles (AgNO₃) 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.
- N.A. Musmade, **K.P. Suthar**, R.D. Pawar and Lalit Mahatma were adjudged as Best Oral Presenter for the presentation "Chitosan mediated silver nanoparticles (AgNPs) with potential antifungal activities in Virtual International Conference on Chemical Sciences in Sustainable Technology and Development, (IC2S2TD-2020) during December 01-03, 2020.

2) Young Scientist Award

- Dr. Hemant Sharma received Scientist Award 2020 for contribution to Plant Pathology and higher education by Dr. B. Vasantahraj David Foundation, Chennai.

3) Any Other Award

- Dr. S.L. Chawla was conferred the IAHS Fellowship 2020 in Floriculture by Indian Academy of Horticultural Sciences, New Delhi on December 01, 2020 (online).
- Dr. Hemant Sharma received Research Excellence Award 2020 by Institute of Scholars (InSc), Muddhinapalya, Bengaluru (Karnataka).

- a) Dr. P.R. Patel received Outstanding Agricultural Scientist Award 2020 during Recent Scientific Advances in Agricultural and Environmental Sciences organized by Dr. B. Vasantharaj David Foundation on December 05, 2020 at Chennai (Tamil Nadu).

4) Positions in Scientific Societies

S.N.	Faculty	Position	Name of Society
1.	Dr. T. R. Ahlawat	Editorial Board	Gujarat Agricultural Universities Research Journal
2.	Dr. T. R. Ahlawat	Fellowship	CHAI, New Delhi
3.	Dr. S. N. Saravaiya	Chief Editor	Horticulture Society of Gujarat
4.	Dr. Sanjeev Kumar	Life member	The Horticultural Society of Gujarat
5.	Dr. Sanjeev Kumar	Life member	Gujarat Association for Agricultural Sciences
6.	Dr. Sanjeev Kumar	Life member	Society for the Advancement of Human and Nature (SADHNA)
7.	Dr. Sanjeev Kumar	Patron member	The Horticultural Society of Gujarat
8.	Dr. Sanjeev Kumar	Life member	The Horticultural Society of India (Now Indian Academy of Horticultural Sciences)
9.	Dr. Sanjeev Kumar	Life member	Abhinav Krishi (Hindi Magazine), Directorate of Extension Education, Agriculture University, Kota
10.	Dr. Sanjeev Kumar	Reviewer	Potato Research Journal
11.	Dr. J.M. Vashi	Life Membership	Society of Extension Education
12.	Dr. J.M. Vashi	Patron Membership	Horticultural Society of Gujarat
13.	Dr. J.M. Vashi	Life Membership	Society For Advancement of Human and Nature
14.	Dr. J.M. Vashi	Life Membership	The Gujarat Association for Agricultural Sciences
15.	Dr. Alka Singh	Member of Editorial Board	ISOH, New Delhi
16.	Dr. Alka Singh	Member of Editorial Board	Horticulture Society of Gujarat
17.	Dr. Alka Singh	Member of Editorial Board	Nursery Today, Indian Nurserymen Association
18.	Dr. Alka Singh	Reviewer	Plant Cell Biotechnology and Biology
19.	Dr. S. L. Chawla	Joint Secretary	Indian Society of Ornamental Horticulture, ICAR-IARI, New Delhi
20.	Dr. S. L. Chawla	Patron	Society for Horticultural Research and Development, Modinagar, Gaziabad.
21.	Dr. S. L. Chawla	Patron	The Horticultural Society of Gujarat, Navsari
22.	Dr. S. L. Chawla	Executive Councilor	The Horticultural Society of Gujarat, Navsari
23.	Dr. S. L. Chawla	Editor	Indian Society of Horticultural Research and Development
24.	Dr. Sudha Patil	Patron	The Horticultural Society of Gujarat, Navsari
25.	Dr. Sudha Patil	Editor	Current Horticulture
26.	Dr. Sudha Patil	Associate-Editor	Bioinfo Publications Journals
27.	Dr. Sudha Patil	Reviewer	Journal of Advances in Biotechnology
28.	Dr. Sudha Patil	Life Member	Indian Academy of Horticultural Sciences,

			New Delhi (Formerly HSI)
29.	Dr. Sudha Patil	Life Member	Society for Horticultural Research and Development, Modinagar, Gaziabad (UP)
30.	Dr. Sudha Patil	Life Member	Indian Society of Ornamental Horticulture, ICAR- IARI, New Delhi
31.	Dr. Sudha Patil	Life Member	The Indian Science Congress Association, Chennai
32.	Dr. Sudha Patil	Life Member	The Horticultural Society of Gujarat, Navsari
33.	Dr. Sudha Patil	Life Member	Indian Society for Arid Horticulture, ICAR- CIAH, Bikaner (Raj.)
34.	Dr. Sudha Patil	Life Member	Society for Advancement of Human and Nature, DRYSPUH, Solan (HP)
35.	Dr. Sudha Patil	Life Member	Garden Glory- Human Empowerment Cooperative Ltd., Jammu
36.	Dr. Sudha Patil	Life Member	Indian Society for Horticultural Research and Development, Uttarakhand
37.	Dr. Sudha Patil	Life Member	The Gujarat Association for Agricultural Sciences, Navsari
38.	Dr. Dipal Bhatt	Patron	The Horticultural Society of Gujarat, Navsari
39.	Dr. Dipal Bhatt	Reviewer	Current Agriculture Research Journal
40.	Dr. Dipal Bhatt	Life member	Society for Horticultural Research and Development, Ghaziabad (UP)
41.	Dr. Dipal Bhatt	Life member	Indian Society of Ornamental Horticulture
42.	Dr. Dipal Bhatt	Life member	The Horticultural Society of Gujarat, Navsari
43.	Dr. H. P. Shah	Life Member	Indian Society of Ornamental Horticulture, ICAR- IARI, New Delhi
44.	Dr. H. P. Shah	Life Member	The Horticultural Society of Gujarat, Navsari
45.	Dr. H. P. Shah	Life Member	The Gujarat Association for Agricultural Sciences, Navsari
46.	Dr. G. D. Patel	Patron	Horticulture Society of Gujarat
47.	Dr. G. D. Patel	Life Member	Indian Journal of Horticulture
48.	Dr. G. D. Patel	Life Member	Journal of Ornamental Horticulture
49.	Dr. M. A. Patel	Life Member	Society for Horticultural Research and Development, Modinagar, Gaziabad (UP)
50.	Dr. M. A. Patel	Life Member	Indian Society of Ornamental Horticulture, ICAR- IARI, New Delhi
51.	Dr. M. A. Patel	Life Member	The Horticultural Society of Gujarat, Navsari
52.	Dr. M. A. Patel	Life Member	Indian Society for Horticultural Research and Development, Uttarakhand
53.	Dr. M. A. Patel	Life Member	The Gujarat Association for Agricultural Sciences, Navsari
54.	Parmeshwari Chaudhari	Life member	Indian Society of Ornamental Horticulture
55.	Dr. Dev Raj	Full Member	JFST
56.	Dr. Dev Raj	Life Member	SADHANA Society, Solan, HP

57.	Dr. Dev Raj	Patron Member	Gujarat Society of Horticulture
58.	Dr. Dev Raj	Editorial Board member	International journals of food, agriculture and veterinary sciences
59.	Er. Pandit Parag	Life Member	Indian Society of Agricultural Engineering
60.	Er. Pandit Parag	Life Member	Association of Food Scientists and Technologists
61.	Er. FM Sahu	Life Member	AFST (I), Mysuru
62.	Er. FM Sahu	Life Member	Indian Society of Technical Education (ISTE), New Delhi
63.	Er. FM Sahu	Life Member	Indian Society of Agricultural Engineers (ISAE), New Delhi
64.	Dr. J. M. Mayani	Life Member	AFST (I), Mysuru
65.	Dr. J. M. Mayani	Life Member	Trends in Bio Sciences
66.	Dr. J. M. Mayani	Life Member	Gujarat Association for Agricultural Sciences (GAAS)
67.	Dr. J. M. Mayani	Life Member	The Horticultural Society of Gujarat
68.	Dr. J. M. Mayani	Life Member	Society of Extension Education Gujarat
69.	Er. A.K.Senapati	Life Member	Indian Society of Agricultural Engineering
70.	Er. A.K.Senapati	Life Member	The Horticultural Society of Gujarat
71.	Er. A.K.Senapati	Life Member	Gujarat Association for Agricultural Sciences (GAAS)
72.	Er. A.K.Senapati	Life Member	Institution of Engineers India, Kolkata
73.	Dr. N. V. Patel	Life Member	Gujarat Association for Agricultural Sciences (GAAS)
74.	Dr. H. G. Suthar	Life Member	Gujarat Association for Agricultural Sciences (GAAS)
75.	Dr. H. G. Suthar	Life-Member	Indian Society of Analytical Scientists-Baroda chapter
76.	Dr. H. V. Pandya	Life Member	PPAG-Plant Protection Association of Gujarat
77.	Dr. H. V. Pandya	Life Member	GAAS-The Gujarat Association for Agricultural Sciences
78.	Dr. H. V. Pandya	Life Member	Member of Board of Studies(PPSC)
79.	Dr. H. V. Pandya	Life Member	Member of Board of Studies(Horticulture)
80.	Dr. H. V. Pandya	Life Member	Member of Agricultural Research Council (AGRESCO)Plant Protection
81.	Dr. H. V. Pandya	Life Member	Member of Agricultural Research Council (AGRESCO)Horticulture
82.	Dr. H. V. Pandya	Life Member	ACHF ALUMNI Association
83.	Dr. H. V. Pandya	Life Member	Entomological Research Association
84.	Dr. H. V. Pandya	Life Member	Society of Extension Education
85.	Dr. H. V. Pandya	Life Member	Horticultural Society of Gujarat
86.	Dr. H. V. Pandya	Life Member	Indian society for Horticultural research and development (ISHRD)
87.	Dr. P. R. Patel	Life Member	Indian society for Horticultural research and development (ISHRD)
	Dr. P. R. Patel	Life Member	PPAG-Plant Protection Association of Gujarat

88.	Dr. P. R. Patel	Life Member	GAAS-The Gujarat Association for Agricultural Sciences
89.	Dr. P. R. Patel	Life Member	Member of Board of Studies(PPSC)
90.	Dr. P. R. Patel	Life Member	Member of Board of Studies(Horticulture)
91.	Dr. P. R. Patel	Life Member	Member of Agricultural Research Council (AGRESCO)Plant Protection
92.	Dr. P. R. Patel	Life Member	Member of Agricultural Research Council (AGRESCO)Horticulture
93.	Dr. P. R. Patel	Life Member	Member of Agricultural Research Council (AGRESCO)Forestry
94.	Dr. P. R. Patel	Life Member	Trends in Bio Science
95.	Dr. V. P. Prajapati	Life Member	Indian Society of Mycology and Plant Pathology, MPAUT, Udaipur
96.	Dr. V. P. Prajapati	Life Member	Indian Phytopathological Society, New Delhi
97.	Dr. V. P. Prajapati	Life Member	Indian society of plant pathologist.PAU, Ludhiana
98.	Dr. V. P. Prajapati	Life Member	Indian society for horticultural research and development (ISHRD)
99.	Dr. V. P. Prajapati	Life Member	PPAG-Plant Protection Association of Gujarat
100.	Dr. V. P. Prajapati	Life Member	GAAS-The Gujarat Association for Agricultural Sciences
101.	Dr. V. P. Prajapati	Life Member	Member of Board of Studies
102.	Dr. V. P. Prajapati	Life Member	Member of Agricultural Research Council (AGRESCO)
103.	Dr. Hemant Sharma	Life Member	Indian Society of Mycology and Plant Pathology, MPAUT, Udaipur
104.	Dr. Hemant Sharma	Life Member	PPAG-Plant Protection Association of Gujarat
105.	Dr. Hemant Sharma	Life Member	GAAS-The Gujarat Association for Agricultural Sciences
106.	Dr. Hemant Sharma	Life Member	Member of Board of Studies
107.	Dr. Hemant Sharma	Life Member	Member of Agricultural Research Council (AGRESCO)
108.	Dr. Hemant Sharma	Annual member	International Journal of Chemical Studies
109.	Dr. Snehal Patel	Life Member	ACHF ALUMNI Association
110.	Dr. Snehal Patel	Life Member	Entomological Research Association
111.	Dr. Snehal Patel	Life Member	Society of Extension Education
112.	Dr. Snehal Patel	Life Member	The Gujarat Association for Agricultural Sciences
113.	Dr. Snehal Patel	Life Member	Trends in Biotechnology and biological sciences
114.	Dr. Snehal Patel	Life Member	Trends in Biosciences
115.	Dr. Snehal Patel	Life Member	Advances in Life Sciences
116.	Dr. Snehal Patel	Life Member	Plant Protection Association of Gujarat
117.	Dr. Snehal Patel	Life Member	Member of Agricultural Research Council

			(AGRESCO)
118.	Dr. Diwakar Singh	Life member	Society of Biological Chemist
119.	Dr. K. P. Suthar	Life member	Society of Biological Chemist
120.	Dr. Diwakar Singh	Life member	Agro Environmental Development Society
121.	Dr. Diwakar Singh	Life member	Indian Society of Agriculture Biochemist
122.	Dr. Diwakar Singh	Life member and Fellow	Society of Applied Biotechnology
123.	Dr. Diwakar Singh	Life member	Society for Plant Biochemistry and Biotechnology
124.	Dr. O. P. Sharma	Life member	Indian Society of Extension Education, New Delhi
125.	Dr. O. P. Sharma	Life member	Rajasthan Society of Extension Education, Udaipur
126.	Dr. O. P. Sharma	Life member	Gujarat Society of Extension Education, Anand
127.	Dr. O. P. Sharma	Life member	Gujarat Association for Agricultural Sciences (GAAS), Navsari Chapter
128.	Dr. O. P. Sharma	Member	Editorial Board Panel IJMR (International Journals of Multi Dimensional Research), IT Centre, M-69 First Floor, Near Astoria Hotel, Bur Dubai, Dubai UAE
129.	Dr. O. P. Sharma	Member	Editorial Board, Journal of Progressive Agriculture (an International Journal), Ajmer (Rajasthan)
130.	Dr. O. P. Sharma	Member	AGRESCO (Social Science Group), NAU, Navsari
131.	Dr. O. P. Sharma	Member	PG-RAG (Social Science), NAU, Navsari
132.	Dr. A. K. Leua	Member	AGRESCO (Social Science Group), NAU, Navsari
133.	Dr. A. K. Leua	Member	PG-RAG (Social Science), NAU, Navsari
134.	Mr. H. N. Chhatrola	Member	AGRESCO (Social Science Group, Forestry Group, Horticulture Group and Crop Improvement Group), NAU, Navsari
135.	Mr. H. N. Chhatrola	Member	PG-RAG (Social Science), NAU, Navsari
136.	Dr. D.J. Chaudhari	Life member	Indian Society of Agricultural Marketing, Hyderabad
137.	Dr. D.J. Chaudhari	Life member	Agricultural Economics Research Association, New Delhi
138.	Dr. D.J. Chaudhari	Member	AGRESCO (Social Science Group and Horticulture Group), NAU, Navsari
139.	Dr. D.J. Chaudhari	Member	PG-RAG (Social Science), NAU, Navsari
140.	Mr. A.P. Chaudhary	Member	AGRESCO (Social Science Group, Forestry Group, and Crop Improvement Group), NAU, Navsari
141.	Mr. A.P. Chaudhary	Member	PG-RAG (Social Science), NAU, Navsari

5) Patent Filled

1. 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
2. Indian Patent Application No: **IN 202121008534** dated **01-03-2021**.
Title: GREEN PROCESS OF SYNTHESIZING ZINC OXIDE NANOPARTICLES WITH PLANT GROWTH PROMOTING RHIZOBACTERIA AND ZINC SALT
Applicant: Navsari Agricultural University; Ref No: PTIN/0021610

6.14 RG Score and h index

Faculty	Designation & Department	RG Score	h Index
Dr. Alka Singh	Professor & Head, Dept. of Floriculture & Landscape Architecture	19.00	10.00
Dr. Dev Raj	Professor & Head, Department of PHT, ACHF, NAU, Navsari	17.09	7.00
Dr. S.L. Chawla	Associate Professor, Dept. of Floriculture and Landscape Architecture	13.31	5.00
Dr. T.R. Ahlawat	Professor and ADR, Fruit Science	13.20	6.00
Dr. Diwakar Singh	Assistant Professor, Department of Plant Molecular Biology and Biotechnology, ACHF, NAU, Navsari	11.22	5.00
Dr. K.P. Suthar	Assistant Professor, Department of Plant Molecular Biology and Biotechnology, ACHF, NAU, Navsari	9.25	4.00
Dr. O.P. Sharma	Professor & Head	9.11	2.00
Dr. Sanjeev Kumar	Assistant Professor, Vegetable Science	8.98	5.00
Dr. A.I. Patel	Assistant Professor, GPB	8.89	6.00
Dr. A. K. Leua	Associate Professor (Agril. Economics)	8.14	1.00
Dr. Sudha Patil	Assistant Professor, Dept. of Floriculture & Landscape architecture	8.06	3.00
Er. P.S. Pandit	Assistant Professor, Department of PHT, ACHF, NAU, Navsari	8.05	3.00
Dr. S.N. Saravaiya	I/c Professor, Vegetable Science	6.45	5.00
Dr. Chintan Kapadia	Assistant Professor, Department of Plant Molecular Biology and Biotechnology, ACHF, NAU, Navsari	6.42	3.00
Dr. A.K. Pandey	Assistant Professor, Fruit Science	5.39	4.00
Dr. Snehal M. Patel	Assistant Professor, Plant Protection	5.33	3.00
Dr. H.V. Pandya	Registrar and Professor and Head, Plant Protection	5.18	7.00
Mr. A.P. Chaudhary	Assistant Professor (Agril. Statistics)	4.24	1.00
Dr. J.M. Vashi	Assistant Professor (Vegetable Science)	4.19	2.00
Dr. M.A. Patel	Assistant Professor, Dept. of Floriculture & Landscape architecture	3.74	2.00

Dr.Dipal S. Bhatt	Assistant Professor, Dept. of Floriculture & Landscape architecture	3.71	2.00
Dr. Harish Suthar	Assistant Professor, Department of PHT, ACHF, NAU, Navsari	3.31	2.00
Prof. H. N. Chhatrola	Assistant Professor (Agril. Statistics)	3.19	1.00
Er. A.K.Senapati	Assistant Professor, Department of PHT, ACHF, NAU, Navsari	3.11	6.00
Dr. H. P. Shah	Assistant Professor, Dept. of Floriculture & Landscape Architecture	2.34	2.00
Dr. P. P. Bhalerao	Assistant Professor, PSMA	2.23	7.00
Dr. V. P. Prajapati	Assistant Professor, Plant Protection	2.06	3.00
Dr. Hemant Sharma	Associate Professor, Plant Protection	2.00	4.00
Dr. D. J. Chaudhari	Assistant Professor (Agril. Economics)	1.70	1.00
Dr. J.M. Mayani	Assistant Professor, Department of PHT, ACHF, NAU, Navsari	1.33	2.00
Dr. N.K. Patel	Assistant Professor, Vegetable Science	1.30	2.00
Dr. Y.N. Tandel	Associate Professor, Fruit Science	1.21	6.00
Dr. R.V. Tank	Associate Professor, Fruit Science	1.16	6.00
Prof. Bhoomika A. Patel	Assistant Professor, Fruit Science	0.60	1.00
Prof. Dixita Prajapati	Assistant Professor, Fruit Science	0.59	1.00
Dr. B. N. Chaudhari	Assistant Professor, Vegetable Science	0.59	2.00
Ms. Parmeshwari Chaudhary	Assistant Professor, Dept. of Floriculture & Landscape architecture	0.59	1.00
Dr. N.V. Patel	Assistant Professor, Department of PHT, ACHF, NAU, Navsari	0.59	1.00
Dr. V.K. Parmar	Professor and Head, Fruit Science	0.01	1.00
Dr. B.M. Tandel	Associate Professor, Fruit Science	0.01	4.00
Dr. M.M. Patel	Associate Professor, PSMA	0.01	1.00
Dr. S.Y. Patel	Associate Professor, Fruit Science	0.01	2.00
Dr. Tulsi D. Gurjar	Assistant Professor, Fruit Science	0.01	3.00
Prof. Hetal R. Rathod	Assistant Professor, Vegetable Science	0.01	1.00
Dr. Himani B. Patel	Assistant Horticulturist, Vegetable Science	0.01	1.00
Dr. G.D. Patel	Assistant Research Scientist, Dept. of Floriculture & Landscape Architecture	0.01	1.00
Dr. P.R. Patel	Associate Professor, Plant Protection	0.01	2.00
Er. F.M. Sahu	Assistant Professor, Department of PHT, ACHF, NAU, Navsari	-	1.00

7. STUDENTS WELFARE ACTIVITIES

7.1 Students' Representative Council

S.N.	Name	Designation	Position
STAFF ADVISORS			
1.	Dr. P.K. Shrivastava	Principal and Dean	President
2.	Dr. N.B. Patel	Assoc. Professor (Vegetable Science)	Chairman
3.	Dr. M.K. Desai	Asstt. Professor (Agroforestry)	Co- Chairman
4.	Dr. Jayesh Pathak	Asstt. Professor (Agroforestry)	Cultural Advisor
5.	Dr. Alka Singh	Professor and Head (FLA)	Chairman- Placement Cell
6.	Dr. O. P. Sharma	Professor & Head (Social Sci.)	Chief Editor-College Magazine
7.	Dr. M.B. Tandel	Asstt. Professor (Forestry)	Sports Advisor
8.	Dr. N.K. Patel	Asstt. Professor (Vegetable Science)	Advisor- Indoor Games
9.	Dr. Y.N. Tandel	Assoc. Professor (Fruit Science)	Advisor- Outdoor Games
10.	Dr. S.M. Patel	Asstt. Professor (Agroforestry)	Advisor- Outdoor Games
11.	Mr. M.R. Parmar	Asstt. Professor (Agroforestry)	Advisor- Outdoor Games
12.	Mr. Kirti Bardhan	Asstt. Professor (Plant Physiology)	Advisor- Literary Events
13.	Lt. (Dr.) Aadil Kazi	Asstt. Professor (Ecotourism & Wildlife)	Chairman- Nature Club, NCC
14.	Dr. V.B. Parekh	Asstt. Professor (Biotechnology)	Advisor, Alumni Events
15.	Dr. J.M. Vashi	Asstt. Professor (Vegetable Science)	Programme Officer- NSS
16.	Dr. Sudha Patil	Asstt. Professor (Floriculture)	Advisor- Girls Activities
17.	Dr. Nilam Patel	Asstt. Professor (PHT)	Advisor- Girls Activities
18.	Dr. Tulsi Gurjar	Asstt. Professor (Fruit Science)	Advisor- Girls Activities
STUDENT REPRESENTATIVES			
Note: <i>Students' representatives were not nominated due to COVID-19 pandemic for the current session.</i>			

7.2 Institutional Anti-Ragging Committee

S.N.	Name and Designation	Position	Cell Number
1.	Dr. P.K. Shrivastava, Principal & Dean	Chairman	9879575264
2.	Dr. Y.N. Tandel, U.G. Incharge (Horticulture)	Member Secretary	7600059219
3.	Dr. B.S. Desai, U.G Incharge (Forestry)	Member	9374065646
4.	Dr. R.V. Tank, P.G Incharge (Horticulture)	Member	9426837531
5.	Dr. R.P. Gunaga, P.G Incharge (Forestry)	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.	Mrs. Dixita Prajapati, Assistant Rector	Member	9724253897
12.	Ms. Chaudhary Parmeshwari, Assistant Rector	Member	9099665904
13.	Dr. H.P. Shah, Assistant Rector	Member	8000220111
14.	Dr. J.M. Mayani, Assistant Rector	Member	9898110173
15.	Dr. D.P. Patel, Assistant Rector	Member	9429259249
16.	Dr. N.S. Thakur, Assistant Rector	Member	9664579062
17.	Mokriya Yagneshkumar Vasrambhai, P.G. Student (Horti.)	Student Member (P.G)	7016562552
18.	Delvadiya Avadh Kamlesh, U.G. Student (Horti.)	Student Member (U.G)	7874652874
19.	Ananya Birendra Prasad, U.G. Student (Fort.)	Student Member (U.G)	7567427300

7.3 Anti-Ragging Squad

S.N.	Name and Designation	Position	Cell Number
1.	Dr. P.K. Shrivastava, Principal & Dean	Chairman	9879575264
2.	Dr. Dev Raj, Professor & Head (PHT)	Member Secretary	9913753252
3.	Dr. N.S. Thakur, Assistant Professor	Member	9664579062
4.	Dr. D.P. Patel, Assistant Professor Professor	Member	9429259249
5.	Dr. J.M. Mayani, Assistant Professor	Member	9898110173
6.	Mrs. Dixita Prajapati, Assistant Rector	Member	9724253897
7.	Nikshita Rohitbhai Patel, P.G. Student (Horti.)	Student Member (P.G)	9586540879
8.	Dhoom Parth Dinkarbhai, U.G. Student (Fort.)	Student Member (U.G)	7874464902
9.	Mangroliya Parth Mukeshbhai, U.G. Student (Horti.)	Student Member (U.G)	7874975684

7.4 Gender Committee

S.N.	Name and Designation	Position	Cell Number
1.	Dr. P. K. Shrivastava, Principal & Dean	Chairman	9879575264
2.	Dr. Alka Singh, Professor & Head	Co- Chairman	99987s7299
3.	Dr. Rehana Niyaria, Associate Professor	Member Secretary	9898940253
4.	Ms. 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

S.N.	Name and Designation	Position	Cell Number
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 Sciences	Chairman
2.	Dr. S.N. Saravaiya, Associate Professor & Head, Dept. of Veg. Science	Co-chairman
3.	Dr. P.R. Patel, Associate Professor, Dept. of Plant Protection	Member
4.	Dr. R.V. Tank, Associate Professor, Dept. of Fruit Science	Member
5.	Dr. S. L. Chawla, Associate Professor, Dept. of FLA	Member
6.	Er. Parag S. Pandit, Assistant Professor, Dept. of PHT	Member
7.	Dr. R.P. Gunaga, Associate Professor & Head, Dept. of FPU	Member
8.	Dr. S. K. Jha, Associate Professor, Dept. of FBTI	Member
9.	Dr. V. B. Parekh, Assistant Professor, Dept. of BSH	Member

7.7 Placement Cell

S.N.	Name and Designation	Position	Cell Number
1.	Dr. Alka Singh, Professor & Head, Department of Floriculture & Landscape Architecture	Placement Officer	9998757299
2.	Dr. Sanjeev Kumar, Assistant Professor, Department of Vegetable Science	Assistant Placement Officer	9712724384
3.	Er. Parag S. Pandit, Assistant Professor, Department of Post Harvest Technology	Assistant Placement Officer	7600049187
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	Cell Number
1.	Dr. J.M. Vashi, Assistant Professor, Department of Vegetable Science	Chairman	9662532859
2.	Dr. V. P. Prajapati, Assistant Professor, Department of Plant Pathology	Treasurer	9601278020
3.	Dr. Shivam T. Bhatt, Assistant Professor (FLA), Horticulture Polytechnic	Member	987963632

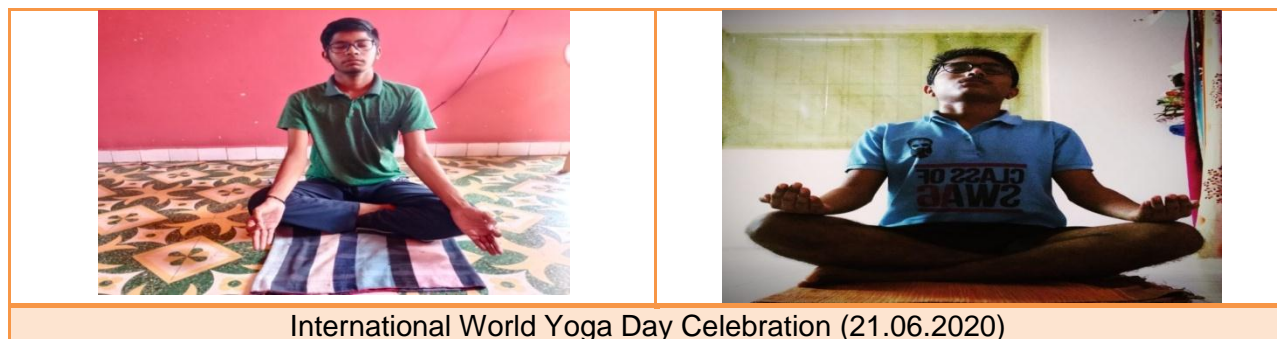
7.9 NSS/NCC Activities

NSS Activities (2020-21)

S.N.	Activity	No of Volunteers		
		Boys	Girls	Total
A. Regular activities				
1.	World Yoga Day celebration (21/06/2020)	08	03	11
2.	Ek Bharat Sresth Bharat Webinar (20/07/2020)	05	-	05
3.	Launch of Partnership Webinar by Ministry of Youth Affairs & Sports (22/07/2020)	08	05	13
4.	Constitution Day celebration (26/11/2020)	28	32	60
5.	Online Quiz on Fundamental duties and rights (26/11/2020)	70	31	39
6.	Elocution : Indian constitution (26/11/2020)	03	-	03
7.	Agricultural Education Day Celebration (03/12/2020)	20	19	39
8.	Workshop on Cancer awareness and Tobacco control (07/01/2021)	31	20	51
9.	Rashtriya Matdata Divas Celebration (25/01/2021)	12	15	27
10.	Republic Day Celebration (26/01/2021)	14	08	22
11.	Webinar on Food Planet Health (17/02/2021)	05	02	07
12.	Awareness program on Significance of Yoga for students' physical, mental and emotional health in COVID-19 era (02/03/2021)	10	15	27
13.	International Women's Day Celebration	-	18	18
14.	World Water Day Celebration	-	21	21
B. Special Camp: The Special Camp for NSS was not possible due to COVID 19.				

Grant allotted to NSS unit of College/Polytechnic balance statement – 2020-21

S.N.	Name of Unit	Budget	Allotted Grant	Expenditure	Balance
1.	ASPEE College of Horticulture & Forestry	301/4802-A	27818.00	20706.00	7112.00



International World Yoga Day Celebration (21.06.2020)



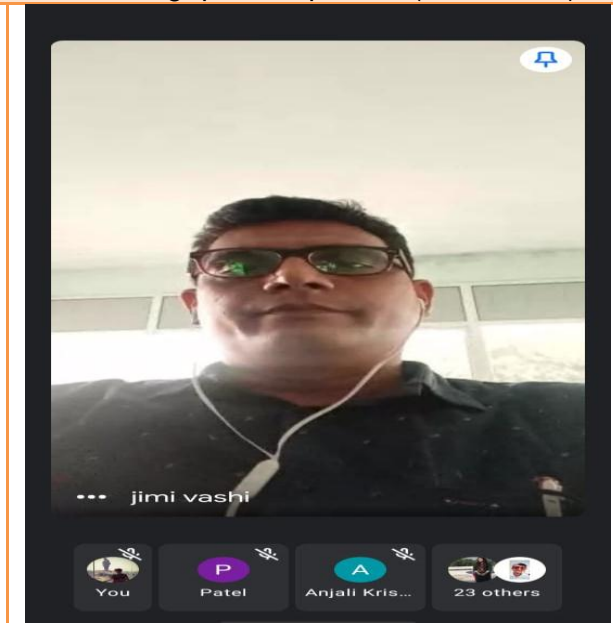
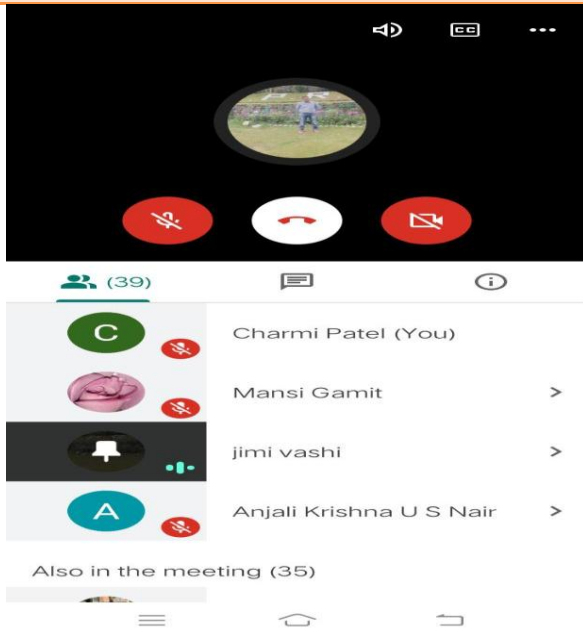
Dr. Mehul Thakkar in a Motivational Lecture (26.11.2020)



Dr. P.K. Shrivastava (Principal & Dean) ACHF and Dr. J.M. Vashi, NSS Programme Officer in a Motivational Lecture (26.11.2020)



Dr. T.K. Behera , Dr. S.K. Sinha and Dr. J.M. Vashi during quiz competition (26.11.2020)



Agricultural Education Day Celebration (03.12.2020)



Rastriya Matdata Divas Celebration (25.01.2021)



International Women's Day Celebration (08.03.2021)



World Water Day Celebration (22.03.2021)

NCC ACTIVITIES (2020-21)

S.N.	Activities	No. of Cadets
1.	Army Attachment Camp	63
2.	Blood Donation camp	279
3.	Combined Annual Training Camp	235

4.	Independence Day Celebration	445
5.	Interaction with Addl. Director General	64
6.	Interaction with Commanding Officer	45
7.	Kargil Day Celebration	280
8.	Republic Day Celebration	447
9.	Triranga March	135
10.	Weapon Training for Agriculture, Horticulture, forestry students	178
11.	National Integration Camp	46
12.	Swachch Bharat Abhiyan	203



Kargil Day Celebration



Independence Day Celebration



Blood Donation Camp



Republic Day Celebration



Weapon Training



Weapon Training



Interaction with Maj. Gen.



Tiranga March



Swachch Bharat Abhiyan

7.10 Hostel Facilities

ANSUYA GIRLS HOSTEL

			
Accommodation Facilities			
Rooms	Beds	Total No. of allotted Beds	
23	69	69	

AHALYA GIRLS HOSTEL

			
Accommodation Facilities			
Rooms	Beds	Total No. of allotted Beds	
22	44	44	

SWAMI VIVEKANANDA HOSTEL



Mini Gym in the Hostel



Sports Facility in the Hostel

Accommodation Facilities

Rooms	Beds	Total No. of allotted Beds
68	136	74

BAGAYAT BOYS HOSTEL



Accommodation Facilities

Rooms	Beds	Total No. of allotted Beds
36	108	108

FORESTRY HOSTEL



Mini Gym in the Hostel



Sports Facility in the Hostel



Facility of Solar panels on hostel rooftop

Accommodation Facilities

Rooms	Beds	Total No. of allotted Beds
30	90	90

SANKALP PG BOYS HOSTEL



Accommodation Facilities

Rooms	Beds	Total No. of allotted Beds
50	100	72

8. STUDENTS' PROFILE

8.1 STUDENTS PROFILE (8th SEMESTER)-HORTICULTURE

		
<p>Ashly Jossy (3020217001) +91 80782 29211 ashlyjossy1998@gmail.com Narithookil House Thottumukkam Postareacode via Malappuram,</p>	<p>Baflipara Ronak R. (13020217002) +91 75673 22586 baflipararonak01@gmail.com Village Khakhariya Ta. Babra</p>	<p>Bhakhar Hirenkumar D. (3020217003) +91 72269 05691 hirenbhakhar124@gmail.com To: Damarala, Ta. Bhesan Distt. Junagadh</p>
		
<p>Bhimani Hiral Subhashbhai (3020217004) +91 91069 65284 hiralbhimani1999@gmail.com 22, Shivashkti Society, 3 Santadevi, Navsari</p>	<p>Bhimani Nidhi (3020217005) +91 73837 45687 nidhughbhimani@gmail.com B/13 , Shivshakti Society, Santadevi, Navsari</p>	<p>Chaudhari Sahil N. (3020217006) +91 76230 49238 sahilchaudhary5262@gmail.com At Kathavada, Po-Modhuka, Ta. Talod, Distt. Sabarkantha</p>
		
<p>Drashti Pramodbhai Patel (3020217009) +91 97149 87351 pateldrashti176@gmail.com 103, Astha Jyot, Near Jalaram Temple, Jamna Nagar, Vapi</p>	<p>Gandhi Isha Nilehskumar (3020217010) +91 91068 25823 ishagandhi868@gmail.com 19, Gujarat Housing Colony, Vijalpore, Navsari</p>	<p>Gaudani Yash 3020217012 +91 95866 46583 yash263horti@gmail.com 302 Navkar Palace, Khadsad, Surat</p>

		
<p>Gohel Prashant R. (3020217013) +91 74878 93351 prashantgohel336@gmail.com To: Januda, Ta: Maliya (Hatina), Distt. Jungadh 362 255</p>	<p>Javiya Anjali (3020217014) +91 97234 39269 anjalijaviya28@gmail.com Shyamnagar-1, Behind Nandanvan, Vijalpore, Navsari</p>	<p>Jogal Sunil Keshurbhai (3020217015) +91 91065 99284 jogalsunil01@gmail.com At Movan, Ta. Jam Khambhaliya, Distt. Dwarka</p>
		
<p>Jyotsna PR (3020217016) +91 8078448386 7jyotsnapr276@gmail.com Sopanam House, Chittarikkalparambu, Post Velur Atholi Kozhikode, Kerala</p>	<p>Kanara Kishan (3020217017) +91 90999 41558 kishankanara4262@gmail.com To: Dokran, Ta. Kutiyana, Distt. Porbandar</p>	<p>Shailesh Khimani (3020217018) +91 74350 72321 shaileshkhimani8@gmail.com At- Thorali, Ta.- Sihor Distt. Bhavnagar 364 260</p>
		
<p>Kishor Varotariya (3020217019) +91 97121 15177 kishorvarotariya1234@gmail.com To. Suryavadar, Ta. Kalyanpur, Dist. Dev Bhumi Dwarka</p>	<p>Vivekkumar Ramanlal Lad (3020217020) +91 73595 82567 ladvivekkumar@gmail.com Sardar town, Navsari</p>	<p>Lunagariya Ajay M. (3020217021) +91 97730 80083 ajaylunagariya6677@gmail.com Shree Ram Krishna, Bhadva Road, Ta. Kotdasangani, Rajkot</p>

		
<p>Manoj Sharma (3020217022) +91 95880 23448 ganeshsharma0084@gmail.com Bagdokidhani, Dalpura, Rajasthan</p>	<p>Master Razin Anvar Husen (3020217023) +91 70468 35452 razinmaster26@gmail.com 101, Rehmani Square, Agiyari Street, Near Charpool, Navsari</p>	<p>Ms. Pooja (3020217024) +91 95880 08432 sihagpooja2000@gmail.com VPO Longwala, Ta.Pilibangan, Dist. Hanumangarh, Rajasthan</p>
		
<p>Mulani Neha Pravinbhai (3020217025) +91 98700 92001 nehamulani42@gmail.com Vill. Khari Ta. Bagasara District Amreli</p>	<p>Mungalpara Rushikkumar V. (3020217026) +91 90819 41884 rushikmungalpara12@gmail.com To: Leriya, Maruti Nandan Plot, Ta. Visavadar Dist. Junagadh</p>	<p>Ajay Narola (3020217027) +91 75673 91312 narolaajay143@gmail.com Khakhariya Village Distt. Amreli</p>
		
<p>Odedara Hitesh Pratapbhai (3020217028) +91 96242 75844 hiteshodedara22@gmail.com To- Dharsan, Ta. Kutiyana Distt. Porbandar 362 620</p>	<p>Mulrajsinh Parmar (3020217029) +91 97146 94205 mulraj1045@gmail.com Pirodnagar, Sherkhinanobhag, Vadodara</p>	<p>Patel Bhavik Rameshbhai (3020217030) +91 72030 92822 bhavikpatel92822@gmail.com At- Maniyari, Ta-Chanasma</p>

		
<p>Kanvikumari Nareshbhai Patel (3020217032) +91 95370 21568 kanvipatel1@gmail.com Chasa, Ta. Chikhli, Dist. Navsari</p>	<p>Patel Khushbu Cheharbhai (3020217033) +91 95861 76601 kc209999@gmail.com 31 Aangan Duplex, Nr. Vidhya Mandir School, Gotri, Vadodara</p>	<p>Patel Mayank Ganeshbhai (3020217034) +91 73591 06576 mayankbhaipatel90@gmail.com At Post: Ambach (Master F.) Ta. Chikhli, Dist. Navsari</p>
		
<p>Patel Meetkumar Arvindbhai (3020217035) +91 81286 05173 meet4121@gmail.com To – Daran, Ta. Kadi, Distt. Mehsana</p>	<p>Navangi Patel (3020217036) +91 97730 72442 navangipatel09@gmail.com A-2/53 Amiraj Soc., Near Jalkamal Soc., Vijalpore, Navsari</p>	<p>Riddhi Patel (3020217037) +91 85119 48834 riddhispatel786@gmail.com 8/b Ghanshyam park, Jamalpole, Gandevi road, Navsari</p>
		
<p>Patel Syuzi Navinbhai (3020217038) +91 74340 45305 syuzipatel2498@gmail.com 88, Sonasarita Society, Abrama, Valsad</p>	<p>Patel Yogvidhya Rameshbhai (3020217039) +91 96877 93864 ypatel2503@gmail.com 222, Shantinagar Society 1, Ranifaliya, Vansda, Distt. Navsari</p>	<p>Dhruvi Prakashbhai Prajapati (3020217041) +91 90540 41176 dhruviprajapati17@gmail.com 8/324, 'Heer Deep' Masjid faliyu, Kumbharwad, Navsari</p>

		
<p>Prateek Taneja (3020217042) +91 98104 26436 pprateektaneja@gmail.com L-82/A, Saket, New Delhi, 110017</p>	<p>Rankja Raj (3020217043) +91 79845 01188 rajrankja43108@gmail.com Bagathala, Ta. & Distt. Morbi</p>	<p>Savaj Chetan (3020217044) +91 87340 85348 savajchetan0504@gmil.com At Pati, Ta. Khambhat, Dist. Amreli,</p>
		
<p>Savaliya Mohit Mathurbhai (3020217045) +91 89808 13678 mohitsavaliya0809@gmail.com To: Kadaya, Ta. Bagasara Distt. Amreli</p>	<p>Solanki Dhara Ramsibhai (3020217047) +91 63524 71144 dharasolanki1572@gmail.com To: Vadnagar, Ta. Kodinar, Distt. Girsomnath</p>	<p>Sondarva Sagar B. (3020217048) +91 95100 87762 sagar.sondarva99@gmail.com Old F 32/8 SDAU, Ta: Dantiwada, Dist. Banaskatha</p>
		
<p>Vekariya Vraj (3020217049) +91 84015 03792 vrajvekariya3020217049@gmail.com 105, Vaibhav Apprt, Zanda Chowk, Jalalpore, Navsari</p>	<p>Jigar Chaudhari (3020217050) +91 63593 87472 jigarchaudhari84969@gmail.com At. Kumbhia, Post Vankla, Ta. Dolvan, Dist. Tapi 394 630</p>	<p>Dabhi Arunkumar N. (5020218001) +91 99133 82846 arunndabhi@gmail.com Shivnagar Cross Road Near Tophkhanamahadev Deesa, Distt. Banaskantha 385 535</p>




		
<p>Ghoniya Keval Mukeshbhai (5020218002) +91 82389 47146 kevalghoniya86@gmail.com Nr. Ram temple, Vill. Jasapar, Ta-Jamkandorana, Dist. Rajkot</p>	<p>Hirpara Nihar Amrutlal (5020218003) +91 95584 55227 niharhirpara23@gmail.com 101/A, Rajnigandha Apartment Shantadevi Road, Navsari</p>	<p>Parmar Yukti Navanitbhai (5020218004) +91 7600630513 yuktiparmar24@gmail.com 102, Shubh Laxmi Apartment, Magannagar 2, Katargam, Surat</p>
		
<p>Patel Priyal Nareshchandra (5020218005) +91 90998 17753 priyalpatel1502@gmail.com At: Paras Faliya, Aat Ta: Jalalpore, Dist. Navsari</p>	<p>Patel Urvashiben Shankarbhai (5020218006) +91 70461 29253 patelurvashi072@gmail.com At Post Segva, Mandir Faliya, Distt. Valsad</p>	
		
<p>Vaghasiya Sahil Babubhai (5020218007) sahil7charlie@gmail.com +91 7201084318 19, Shaligram Soc., Ambatalavadi, Katargam, Surat</p>	<p>Tandel Twinkle Anilbhai (5080218008) +91 8141400690 twinkletandel8110@gmail.com Shyam Nagar 4, Vijalpore, Navsari 396 450</p>	

8.2 M.Sc. (Horticulture)
Department of Fruit Science

		
<p>Desai Devanshi Jayeshbhai (2020218011) +91 9426214197 devanshidesai141@gmail.com Devpriya",B-2, Vallabhnagar society, vijalpur road Navsari</p>	<p>Lalitha K R (2020218017) +91 8553071806 lalitha.kr1996@gmail.com D/o Rukmangada K V, 1st main, 2nd Cross, Gulpet, Kolar (KA)</p>	<p>Patel Khushbuben Ashokbhai (2020218032) +91 9737403025 kp.khushipatel29@gmail.com Vadsangal (Mora Faliya), Ta. Gandevi, Distt. Navsari</p>
		
<p>Patel Tanviben Ashokbhai (2020218038) +91 9099110860 tanvipatel946@gmail.com At 23/1 Rajpur, PO Pratapnagar, Ta. Vandsa Distt. Navsari</p>	<p>Desai Yashkumar Gamanbhai (2020218012) +91 9537433357 yashdesai466@gmail.com D 201,Gokul Residency, Althan Canal Road, Surat</p>	<p>Boricha Urvashi K. (2020218006) +91 8200457142 urvashiboricha30@gmail.com 81-Bhimaji Complex, Jalkamal Road, Vijalpore, Navsari</p>
		
<p>PrajapatiDiptiRameshbhai (2020218040) +91 7096704921 diptiprajapati1712@gmail.com 1188, Kalpana Nagar Society, Opp. NAU, Eru Char Rasta, Vijalpore, Navsari</p>	<p>Shailaja H K (2020218045) +91 8105834142 ShailajaNayaka47@gmail.com D/o Krishna nayaka, Heresadarahalli (V & P), Arasikere (t), Hassan (d), Karnataka</p>	<p>Patel Arpitaben Maheshbhai (2020218028) +91 7698772069 arpita132@gmail.com 18-Bhagwandas Nagar, Dhakwada, Post Devsar, Bilimora, Ta. Gandevi</p>

		
<p>Ajay Kumar Sahu (2020218001) +91 7000828716 ajay1612sahu@gmail.com S/o Ashok Kumar Sahu, Vill. Palari, Ta. Palari, Distt. Baloda Bazar, CG</p>	<p>Thejaswini K (2020218047) +91 9743683364 thejaswini.k9@gmail.com D/o Krishnappa K V Koramangala Madbal (Hobli), Ta. Magadi, Distt. Ramanagara (KA)</p>	<p>Patel Jollyben Jayeshbhai (2020218030) +91 8401130878 jolly176@gmail.com Cholawalafaliya, Thasra, Dist. Kheda</p>
		
<p>Patel Sejalben Bharatbhai (2020218035) +91 9737604133 sejalpatel556677@gmail.com 27-A Vandna Society Kabilpore, Grid Road, Navsari</p>	<p>Parmar Bhunikaben M. (2020218026) +91 9662078505 bhunikaparmar1511@gmail.com At & Post: Mathasur, Ta. Idar, Distt. Sabarkantha</p>	<p>Architha M. V. (2020218003) +91 9743455926 archithagowda97@gmail.com D/o Venkateshappa M M, Margal (V), CA Halli (P), Bangarpet (T), Kolar (D) [KA]</p>
	<p>Parikh RiddheshPrfulbhai (2020218025) +91 8905289091 parikhriddhesh9071@gmail.com Ganeshpura Near Govt P.T.C College Sivsaktisociety, Palanpur</p>	

Department of Vegetable Science

		
<p>Champaneri Dushyant D. (2020218007) +91 9913746194 dushyant6194@gmail.com C-15, Staff Quarters, NAU, Navsari 396 450</p>	<p>Nagendra (2020218022) +916460343500 nagendra488reddy@gmail.com Ojeaahalli Village, Guhbamager (D), Doddaballapus (T.Q.), Bangalore Rural</p>	<p>Monu Kumari (2020218020) +91 9799476705 monudogiwal10@gmail.com Dogiwalo Ka Bas Bhadva, Via- Jobner, Tehsil Remdal, Distt. Jaipur (Rj)</p>

		
<p>Bhmbhaniya Kinjal Kalubhai (2020218004) +91 8469256701 Nurse No Delo, Opp. PGVCL Office Near Azad Chowk- Junagadh, 362001</p>	<p>Bangoria Urvi Vishvashbhai (2020218005) +919426288983 urvi.bangoria@gmail.com 202, Alap Residency Apartment, Dharanagar, Dharampur Road, Abrama Valsad 396 001</p>	<p>Chaudhari Ritaben Ranjitbhai (2020218008) +91 8758632340 rc.ritu20@gmail.com At & Post Dolava, Ta. Dolvan, Distt. Tapi</p>
		
<p>Late Gamit Mittalkumari D. (2020218013) +91 9724243226 mittugamit@gmail.com At & PO Bhinar (Dungri Faliya), Ta. Vansda, Distt. Navsari</p>	<p>Rathod Vrushabh Pravinbhai (2020218043) +919998947445 rathodvrushabh4711@gmail.com At & PO Salal, Ta. Prantij, Dist. Sabarkantha 393120</p>	<p>Patel Alka Karmanbhai (2020218027) +919638098655 alkapatel466@gmail.com H-5 Quarters, Junathana, Navsari</p>
		
<p>Patel Jinal Bharatbhai (2020218029) +91 7046780973 jinal4951@gmail.com C-14, Staff Quarters, NAU, Navsari</p>	<p>Chaudhari Bharatbhai Devjibhai (2020218009) +919574419623 rbdc.horti@gmail.com At Kochusana, PO Bhachalavam, Ta. Deesa, Distt. Banaskantha</p>	<p>Savaliya Pallavkumar J. (2020218044) +917600263213 pallavsavaliya@gmail.com 247, Dharmarajpark Society, Simadagam, Varachha, Surat</p>



Department of Floriculture & Landscape Architecture

		
<p>Alka (2020218002) +91 9694206413 alkaniraniya123@gmail.com V.P.O. Ganeshgarh, Ward No. 6, Distt. Sri Ganganagar (Rj) 335025</p>	<p>Patel Kalpeshkumar M. (2020218031) +91 971204548 pkalpesh6789@gmail.com At Lukhawada, Ta. Limkheda, Distt. Dahod</p>	<p>Trivedi Saryu Jaldhibhai (2020218048) +91 9879679171 saryutrivedi17@gmail.com 70, Matru-Vandana, Satyamnagar, Grid Junathana Road, Kabilpore, Navsari 396424</p>
		
<p>Patel Shivangeeben Ambubhai (2020218036) +91 9586441188 shivangeepatel675@gmail.com At Post Dulsad, Naykiwad, Tad Faliya, Ta. & Distt. Valsad</p>	<p>Vidyashree. S (2020218049) +91 9743587309 siriallu97@gmail.com 765/21, Amaresha Nilaya, 3rd Cross, Sri Ram Badavane, Near DCM Township, Nittuvalli, Davanagere (KA)</p>	<p>Chotaliya KautikArjanbhai (2020218010) +91 8469485372 kautikchotaliya777@gmail.com 473, Sector 6, Chankyapuri, Ghatlodiya, Ahmedabad- 380061</p>
		
<p>Mistry Kinjal Dipakkumar (2020218019) +91 9099843002 kinjalmistry118@gmail.com A/2, Kamalkunj Apt. Opp. Snehal Hospital, Goharbaugh, Bilimora 396321</p>	<p>Mangroliya Ronak Mukeshbhai (2020218018) +91 9825588403 ronakmangroliya1996@gmail.com B/21- Krunal Bunglows, Samta Gotri Road, Vadodara 390021</p>	

Department of Post Harvest Technology

		
<p>Gohil Mehil Maganbhai (2020218014) +91 9712858806 mehulgohil447@gmail.com At Hathab, Ta. Bhavnagar, Distt. Bhavnagar 364 070</p>	<p>Karangiya Arjun Bhikhabhai (2020218016) +91 7575829934 karangiyaarjun1997@gmail.com Dipanjali Complex, Dolatoara, Junagadh 362 037</p>	<p>Muhammad Rokai M. (2020218021) +009 3777161764 muhammad.r.1369@gmail.com Chaikal Village, Parwan, Bagram District, Afghanistan</p>
		
<p>Ram Bhavin Bachubhai (2020218041) +91 9723313885 bhavinram2972@gmail.com At Kumbhariya, Ta. Mariya, Dist. Junagadh 362 250</p>	<p>Sushmitha M.B. (2020218046) +91 7026235854 sushmithamb1009@gmail.com Maranahalli, Mandya Taluka and District, Shivalli Post (KA) 571 405</p>	

Department of Plant Protection (Horticultural Entomology)

	
<p>Patel Smitakumari Pravinbhai (2020218037) +91 9106777642 patelsmita4497@gamil.com 19, Santivan Society, Kim, Ta. Olpad Distt. Surat</p>	<p>Patel Saurabh Vitthalbhai (2020218034) +91 9978164082 patelsaurabh96@gmail.com Plot No. 680/1, Sector 3-C, Gandhinagar 382006</p>

8.3 Ph.D. (Horticulture)
Department of Fruit Science

		
<p>Kachhadia Palak Arvindbhai (1020216005) +91 8238739726 pakachhadia@gmail.com B-7, Eru Garden Society, Near Rang Vatika Apartment, Eru Char Rasta, Navsari</p>	<p>Chaudhary Abhijit Dhanraj (04-1326-2012) +91 9737061377 acabhijitchudhary7@gmail.com 12/A, Shridarshan Colony, Ghanashyam Nagar, Saturna, Amravati, Maharashtra 444 607</p>	<p>Patel Prasulkumar Rameshbhai (1020216009) +91 9879889479 prasulpatel1983@gmail.com At & Post MotiKarod (KarodKothava), Jalalpole, Navsari</p>
		
<p>Panchal RajeshkumarKishorkumar (1020216006) 9276817736 rkpanchal@nau.in 302, Aarsh Residency, Srinagar Society, Near Eru Char Rasta, Vijalpore, Navsari 396 450</p>	<p>Suchismita Jena (1020217012) 9812110226 suchismitajena2594@gmail.com At- House No. 135, Arabinda Nagar 2nd Lane, Buguda, Distt. Ganjam, Odisha</p>	


Department of Vegetable Science

	<p>Velamala Sravani (1020217013) +91 8332808386 sravanivelamala29@gmail.com No-1-97-, J.R. Puram, Ranasthalam, Srikakulam, Andhra Pradesh 532407</p>
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Department of Floriculture and Landscape Architecture

	
<p>Patel Henaxiben Babubhai +91 9574189039 henaxi.patel28@gmail.com At & Post Joravasan (Kunar Faliya) Via Dungari, Ta. & Distt. Valsad</p>	<p>Mamilla Sindhuja +91 8142959398 sindhu3292@gmail.com D/o M. Veeraiah, Door No. 4/413, Vanam Street, Duvvyr Village & Mandal, YSR Kadapa (AP) 516175</p>
	
<p>Ahir Tejaskumar Rambhai +91 9825424555 tejasahir@nau.in At and PO Khadsupa, Nishal Faliyu, Ta. & Dist. Navsari 396 433</p>	<p>Gurjar Rashmikant Anantray +91 9574545436 rashgurjar@gmail.com Behind S.K. Bank, At and Po. Choriwad, Ta. Idar, Distt. Sabarkantha</p>

Department of Post Harvest Technology

	<p>Sangani Sandeep Labhubhai (1020214014) +91 9978131540 slsangani@nau.in 3/A, Marutidham Rawhouse, Behind N K Petrol Pump, Zadeshwer Road, Zadeshwer, Bharuch- 392 011</p>
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9. VISIT OF DIGNITARIES

S.N.	VIPs/ Guests	Designation and Address	Date of Visit
1.	Dr. A. K. Singh	DDG, Agri. Extension	15/09/2020
2.	Dr. Patil	Former V.C., Dharwad	15/09/2020
3.	Mrs. Anita Zula	Dy. Secretary, Govt. Gujarat	15/09/2020
4.	Dr. Z. P. Patel	Hon'ble Vice Chancellor, NAU, Navsari	27/10/2020
5.	Dr. Z. P. Patel	Vice Chancellor, NAU, Navsari	23/11/2020
6.	Dr. Z. P. Patel	Hon'ble Vice Chancellor, NAU, Navsari	27/11/2020
7.	Dr. R.R. Acharya	Research Scientist, MVRS, AAU, Anand	19/01/2021
8.	Dr. Pranjivan Zaveri	MD, Farm Tech, Biogene Pvt. Ltd, Ahmedabad	12/03/2021
9.	Dr. A. R. Pathak	Ex. Vice Chancellor, NAU, Navsari	12/03/2021



Visit of Dr. A. K. Singh, DDG, Agri. Extension on 15.09.2020



Visit of Dr. Z. P. Patel, Hon'ble Vice Chancellor, NAU, Navsari on 23.11.2020



Visit of Dr. Z. P. Patel, Hon'ble Vice Chancellor, NAU, Navsari to Vegetable Research Farm on 23-11-2020



Visit of Dr. Z. P. Patel, Hon'ble Vice Chancellor, NAU, Navsari to the Department of Vegetable Science on 27-10-2020



Visit of Dr. Z. P. Patel, Hon'ble Vice Chancellor, NAU, Navsari to the Department of Floriculture on 27.10.2020



Visit of Dr. Z. P. Patel, Hon'ble Vice Chancellor, NAU, Navsari to Green House Complex on 27.11.2020



Visit of Dr. Z. P. Patel, Hon'ble Vice Chancellor, NAU, Navsari to ATC on Soilless Growing system for various crop on 01.12.2020



Visit of Dr. R.R. Acharya, Research Scientist, MVRs, AAU, Anand to the Vegetable Research Farm for State trials monitoring on 19-01-2021



ANNUAL REPORT 2020-21

ASPEE College of Horticulture and Forestry
Navsari Agricultural University
Navsari (Gujarat) 396 450, India
www.nau.in