



ANNUAL REPORT 2021-22

NAU SYMBOL & COLOURS

 NAVSARI AGRICULTURAL UNIVERSITY		Green Colour
		Brown Colour
	NAVSARI AGRICULTURAL UNIVERSITY	Black Colour

THIS IS A SYMBOLIC REPRESENTATION OF A GRAIN OF RICE CROP

EXPLANATIONS FOR SYMBOL NAVSARI AGRICULTURE UNIVERSITY



THIS IS A SYMBOLIC REPRESENTS OF A GRAIN OF RICE CROP



N STAND FOR NAVSARI



A STAND FOR AGRICULTURE



U SYMBOLIZES UNIVERSITY



THIS GIVES THE FORM OF AN OPEN BOOK



THIS SHOWS GROWTH AS WELL AS FRESHNESS OF FLOWER



THE GREEN COLOUR SHOWS AGRICULTURE



NAVSARI AGRICULTURAL UNIVERSITY



ANNUAL REPORT

2021-22

NAVSARI AGRICULTURAL UNIVERSITY

ERU CHAR RASTA, NAVSARI – 396450 (GUJARAT)

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NAVSARI AGRICULTURAL UNIVERSITY

Navsari Agricultural University Navsari, Gujarat



Dr. Z. P. Patel
Vice-Chancellor

FOREWORD

I am pleased to submit before you the sixteenth Annual Report for the year 2021-22 of Navsari Agricultural University, Navsari. The University has admitted a total of 466 UG students in five UG degree programmes. Besides, the University admitted 296 students in Masters and Doctoral degree programmes. University also admitted 257 students in four diploma courses offered by six Polytechnics. During the period under report, 45 UG students qualified ICAR-JRF and 18 PG students qualifies ICAR-SRF examinations conducted by ICAR, New Delhi and 109 students also qualified NET conducted by ASRB, New Delhi. The Navsari Agricultural University, Navsari bagged the XXXI position at the national level. Further, Indian Centre for Academic Rankings and Excellence-2021 has rated NAU, Navsari as a 4 Star Institute. Moreover, AICRP on TC, ACOH, Navsari received appreciation for outstanding performance in Revenue Generation and earned the Second Position. ASPEE College of Horticulture & Forestry for securing 5th rank at national level for Under Graduate Education and to ASPEE Agribusiness Management Institute for securing 9th rank nationally and 1st rank in the Gujarat state by the CEO, Asia's renowned magazine 'Education World' presented the prestigious India Higher Education Rankings Award 2021-22. AICRP on Fruits (Banana, Sapota & Papaya), FRS, Gandevi was awarded as Best Centre Award 2021 and Award of Excellence for Linking Technology Development and Transfer. The AICRP on Palms, ACOH, Navsari received "Best AICRP Center Award-2021-22". The CAAST-NAU, Navsari was ranked 2nd among all NAHEP-CAAST centers in India for the year 2021-22. The AICRP on Small Millets, HMRS, Waghai was conferred the Best Performing AICRP Center Award-2021-22".

The NAU pays unique attention to research component and as a result scientists developed 06 new varieties of 05 crops including 2 varieties of rice (GR-23 and GR-24) and 1 each from Cowpea (Cowpea 9), Sunhemp (GSUN 1), Finger millet (CFMV3) and Sorghum (GNJ-1). The University also developed 50 technologies for farmers community including crop improvement (6), natural resource management (16), horticulture (13), forestry (04), plant protection (04), agriculture engineering (02), animal science (05) and 34 for Scientific community including natural resource management (02), plant protection (08), horticulture (01), forestry (03), basic science (05), social science (05), animal science (10).

Under Mega Seed project, NAU produced 3751.23 quintals of Breeder, Foundation and Certified/Truthful seeds of mandate crops. Simultaneously, planting materials of sugarcane single eye bud (124514 Nos.), Sugarcane setts (4880 No.), and Tissue culture plantlets of sugarcane (1105) and Banana (49619) were also produced and distributed to needy farmers of south Gujarat during the period under report. Further, faculty members of the University published 300 research papers in international and national journals and 57 books/book chapters. The University organized five mega events viz., Second Indian Horticulture Summit-2022; National Seminar on Yoga; Professional Certified Agripreneurship Training; Two ICAR sponsored ten days short courses and also deputed 217 faculty members for attending seminar/symposium/conference and 51 faculty members for attending summer and winter school and for attending workshop/short term trainings under HRD programme. Various extension activities like FLDs in 1,149 ha area and 3,996 farmers were benefited. Similarly, Farmers' day/Field day (75), Farmers/Farm women *Shibir* (115), Educational tour/Field visits (21), Farmer's meeting/*KrishiGosthi* (100), Seminar & Workshop for farmers (35), On-farm trials conducted in 37 ha area benefiting 267 farmers, Veterinary clinical camps (07) were also organized by NAU for benefitting more than 1647 farmers and farm women.

I express deep sense of gratitude to Government of Gujarat, ICAR, New Delhi and other agencies for providing financial support and Board of Management and various councils for providing continuous support. Lastly, I congratulate Nodal officer, Publication Cell and entire team for bringing this Annual Report in time. I also thank all Deans, Directors, University Officers and scientists for providing valuable information.

(Z. P. Patel)



NAVSARI AGRICULTURAL UNIVERSITY

नवसारी कृषि युनिवर्सिटी सोंग (मालकोश)

हरि ओम..... हरि ओम..... हरि ओम.....
है समस्त रिद्धि कृषिमुलम, धन धान्य औषधि संपन्नम.
कृषि संस्कृति जन मंगलम, कृषिकार यश आयुर्बलम

दक्षिण गाथा गुर्जरी, गीरीकूज वनसृष्टि त्वरी.
भुमि स्नेह शितल साक्षरी, सागर सुमन सरीता त्वरी,

संज्ञा उदवाडा स्मृति, जरथोस्त्र आतश संस्कृति,
उत्तराट तिथल आहवा, और डांग दुमस वेडणी.

मुनशी भीहु मोरारज, दादा रतन कल्याणज,
टंडेल डांगी पारवा, हणपति अनाविल पारसी.

दांडी नमक सत्याग्रही, गांधी गीरा गड्डेश्वरी,
सरदार सरोवर नर्मदा, है कंकरा सभ शंकरा.

- डॉ. बालकृष्ण जोषी

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NAVSARI AGRICULTURAL UNIVERSITY

1 | Executive Summary

The Agricultural Education Division, ICAR, New Delhi had declared Ranking of Agricultural Universities 2020 on the occasion of ICAR Foundation Day *i.e.* July 16, 2021. Among all SAUs, CAUs and DUs, Navsari Agricultural University, Navsari bagged the XXXI position at the national level. Further, Indian Centre for Academic Rankings and Excellence-2021 (ICARE) has rated NAU, Navsari as a 4 Star Institute.

Educational Achievements

- **Convocation:** Seventeenth Annual Convocation was organized on February 8, 2022. Shri. Acharya Devvratji, Governor of Gujarat and Chancellor of the University presided over the function and Shri. Kiranbhai L. Patel, Joint Managing Director of ASPEE Group of Companies acted as Chief Guest and Hon'ble Minister of Agriculture, Animal Husbandry, Cow-Breeding, Fisheries, Rural Housing and Rural Development in Government of Gujarat, Shri. Raghavjibhai Hansrajibhai Patel acted as Guest of Honour during the convocation ceremony.
- **Degree Awarded :** During the Seventeenth Convocation, NAU awarded various degrees to 649 students including Bachelor's degree to 341 students, Masters' degree to 254 students and Doctorate degree to 54 students.
- **Medals Awarded :** During the Seventeenth Convocation, a total of 34 medals including 14 medals for PG studies and 20 medals for UG studies were awarded. Out of 34 medals, 15 girls meritorious student get 23 medals and 07 boys get 11 medals.
- **Best Teacher Award** was conferred to Dr. Sanjeev Kumar, Assistant Professor, Dept of Vegetable Science, ACHF, NAU, Navsari.
- **Best Researcher Award** was conferred to Dr. Pathik. B. Patel, Associate Research Scientist (PBG), Main Rice Research Station, NAU, Navsari.
- **Admission :** During the year 2021-22, total of 762 students were admitted to five various degree programmes offered by NAU. 466 students admitted to UG degree programme, whereas, 296 students were admitted to masters' and doctorate degree programmes. Thus, overall admission to various degree programme was increased from 391 (2010-11) to 762 (2020-21) students and rise in admission was recorded about more than two folds.
- A total of 257 students were also admitted to six Polytechnics (a three year programme) during the year 2021-22.
- **Student's Success :** The students of NAU qualified national level competitive examinations like ICAR-JRF (45) and ICAR SRF (18) and 109 students also qualified NET conducted by ASRB, New Delhi during the period under report.
- **Placement cell:** This cell of University played a vital role in placement of 79 UG and PG and polytechnic students of various faculties in Government and Non-Government sectors and Banks.
- **Library :** During last year, 1127 new books purchased escalating the total number of the books to 79,799. Further, 11355 periodicals, 3539 theses, 6712 reports and 946 e-books were also added into the repository of library.

Awards

- AICRP on Tuber Crops, NAU, Navsari received appreciation for outstanding performance in Revenue Generation and earned the Second Position on May 28, 2021.
- The CEO, Asia's renowned magazine 'Education World' presented the prestigious India Higher Education Rankings Award 2021-22 to ASPEE College of Horticulture & Forestry for securing 5th rank at national level for Under Graduate Education and to ASPEE Agribusiness Management Institute for securing 9th rank nationally and 1st rank in the Gujarat state.
- AICRP on Fruits (Banana, Sapota & Papaya), FRS, Gandevi was awarded as Best Centre Award 2021 and Award of Excellence for Linking Technology Development and Transfer during March 08-11, 2022.
- The AICRP on Palms, Navsari received “Best AICRP Center Award-2021-22” on September 16-18, 2022.
- The NAU, Navsari was ranked 2nd among all NAHEP-CAAST centers in India for the year 2021-22.
- The AICRP on Small Millets, HMRS, Waghai was conferred the Best Performing AICRP Center Award-2021-22” during April 28-29, 2022.
- Besides, 10 faculty members of University also received Young Scientist Awards/recognitions, 21 faculties conferred best oral presentation awards and 16 faculties learned best poster presentation awards and 15 faculty members received recognition from various scientific communities for scientific contributions by various scientific societies/ organization.

HRD

- Seminar/ Symposium/*Krishi Mela* Organized: During the period under report, NAU organized five mega events viz., Second Indian Horticulture Summit-2022; National Seminar on Yoga; Professional Certified Agripreneurship Training; Two ICAR sponsored ten days short courses.
- Participation of Faculty: The 217 NAU faculty members of University for attending seminar/symposium/conference including 51 faculty members of NAU attended 21 / 10 days trainings/workshops/short term trainings during year 2021-22.

Research Achievements

- **New Varieties:** During the year 2021-22, NAU has released 06 new varieties of 05 crops including 2 varieties of rice (GR-23 and GR-24) and one each from Cowpea (Cowpea 9), Sunhemp (GSUN 1), Finger millet (CFMV3) and Sorghum (GNJ-1).
- **Technologies Developed:** The University also recommended 50 technologies to farmers in various fields' viz., crop improvement (6), natural resource management (16), horticulture (13), forestry (04), plant protection (04), agriculture engineering (02), animal science (05).
- During the period under report, 116 new technical programmes were approved by Research Sub-Committees for implementation at NAU, Navsari for the year 2021-22.
- During 2021-22, University produced over 23,323 liters of Bio-fertilizers, 26,931 liters of Organic Liquid Fertilizers from banana pseudostem and 10,200 Fruit Fly Traps

- **Seed Production:** Under Mega Seed project, NAU produced 3751.23 quintals of Breeder, Foundation and Certified/Truthful seeds of mandate crops. Simultaneously, planting materials of sugarcane single eye bud (124514 Nos.), Sugarcane setts (4880 No.), and Tissue culture plantlets of sugarcane (1105) and Banana (49619) were also produced and distributed to needy farmers of south Gujarat during the period under report.
- Wooden and Bamboo Decorates sale during the period under report 0.81 lakh.
- **Research Schemes:** A total of 274 research schemes including Plan (118), Non plan (54), ICAR (19), NHM/RKVY/Other state govt. (20), GoI (13) and other agencies (50) were operating in the University in the year 2020-21.
- **Publications:** During the period under report, faculties of NAU published 300 research papers in International and National Journals and 57 books/ book chapters for compilation of books.

Extension Activities

- **Trainings:** To disseminate latest technologies for adoption by farmers, 456 on campus and 314 off campus trainings were organized for the benefit of farmers.
- **FLDs and Other Activities :** During the year, University conducted Front Line Demonstrations (FLDs) in 1,149 ha area and 3,996 farmers were benefited. Similarly, Farmers' day/Field day (75), Farmers/Farm women *Shibir* (115), Educational tour/Field visits (21), Farmer's meeting/*KrishiGosthi* (100), Seminar & Workshop for farmers (35), On-farm trials conducted in 37 ha area benefiting 267 farmers, Veterinary clinical camps (07) were also organized by NAU for benefitting more than 1647 farmers and farm women.
- **Mass Communication :** Extension services were also provided using electronic media for mass communication like telephonic contacts (4788), farm literature publication (134), agriculture literature and press notes (604) and TV and radio talks (42).
- **Mass Messaging :** NAU also utilized 'Mass Messaging' using facility of e-connectivity centre for communicating information on improved agricultural practices in time.

Budget

- During the year under report, NAU received total grant of Rs.196.64 crore from various sources viz. Plan (Rs.69.47 crore), Non-plan (Rs. 101.27 crore), ICAR (Rs.18.25 crore) and Other Agencies (Rs.7.65 crore). Additionally, University generated receipt of Rs. 19.57 crore at its own by means of selling of farm produce, seeds, plantlets, planting materials and bio-fertilizers.
- Expenditure of allotted budget was done for research (Rs. 58.86 crore), education (Rs. 55.50 crore) and extension (Rs. 24.63 crore) activities of the University.

Constructions

- **Works completed:** During the period under report, construction of C Type Quarters and Construction of D Type Quarters at Dediapada, Construction of RKVY Laboratory at Navsari, Providing and Fixing Solid PVC Cupboard Shutter, Kitchen Basket & Cupboards with Shutter at NAU, Staff Quarters D-1/1, D-1/2, D-1/4, Providing and Fixing Up-Gradation Facility (CB with Shutter, Tv cum Display Unit & Sofa Set) at Vice Chancellor Bungalow, NAU, Navsari and Providing and Fixing Solid Cup Board Shutter and Cupboards with Shutter at NAU, Staff Quarters E-1/4, E1/7, E-1/5, E-1/6 have been completed.



17TH ANNUAL CONVOCATION

2 | About the University

Introduction

Navsari Agricultural University (NAU) was established by the Government of Gujarat vide Gujarat Act No.5 of 2004, by carving four agricultural universities out of the erstwhile Gujarat Agricultural University (GAU).

The jurisdiction of NAU is comprised of seven districts of South Gujarat viz., (1) Navsari (2) Surat (3) Bharuch (4) Valsad (5) Dang (6) Tapi and (7) Narmada.

Geographical Location

The head quarter of the University is at Navsari, which is located near historical place Dandi known for Salt Movement in Indian pre independence history. Navsari campus is very well connected by railways (Ahmedabad-Mumbai railway line), road surface transport (National Highway No. 8) and airways (Surat airport).

South Gujarat is located on west coast of India and situated between longitudes 72°54' east and latitude 20° 57' north. The operational area is broadly categorized into two major agro-climatic zones viz., South Gujarat heavy rainfall zone with annual rainfall of 1592-2534 mm in 65-95 rainy days and South Gujarat zone with annual rainfall of 798-1655 mm in 31-71 rainy days (Agro-climatic zone-XIII, 3.1, 3.2). The soils of South Gujarat are predominantly clay in texture with more than 40 per cent clay content. South Gujarat has diverse agro-climatic conditions viz., heavy and medium rainfall area, fertile and saline land, undulating hilly tract, irrigated and rain fed cultivated land, forest area and industrialized area. Out of seven districts, four districts namely Dang, Narmada, Valsad and Tapi are tribal dominated. The total geographic area of South Gujarat is 22.63 lakh, whereas, cultivable area is 13.05 lakh ha, out of which 5.89 lakh ha (45.12%) area is irrigated with 109.51% cropping intensity. However, rest of the three districts viz., Surat, Bharuch and Navsari are very well developed and even industrialized.

South Gujarat is surrounded by Arabian Sea on the west (300 km coastal area), Maharashtra on the South and east and central Gujarat on the north. The jurisdiction of the University is blessed with eleven major and many minor rivers including Narmada, Tapi, Purna, Ambika, Kaveri, Daman-ganga, Khapardi, Gira, Par and also has dams like Sardar Sarovar dam on Narmada, Ukai and Kakrapara dams on Tapi, Keliya dam on Kaveri and Mabhuban dam on Daman-ganga rivers.

Historical Background

The agricultural education in South Gujarat region started way back in 1965 with the establishment of N.M. College of Agriculture at Navsari. The college was initially affiliated to Gujarat University, Ahmadabad from 1965 to 1968 and then to South Gujarat University from 1968 to 1972. The first Agricultural University of the state i.e. Gujarat Agricultural University was formed in June, 1972 and the affiliation of N.M. College of Agriculture was transferred to GAU. Another milestone was the establishment of ASPEE College of Horticulture and Forestry in the year 1988 at Navsari.

Navsari zone of erstwhile GAU had attained the status of independent State Agricultural University (SAU) with the promulgation of Gujarat Agricultural University Act 2004 on May 1, 2004 heralding formation of Navsari Agricultural University (NAU) with Navsari as the head quarter. Consequently, the affiliated colleges became the constituent colleges of Navsari Agricultural University. After formation of NAU, other colleges like ASPEE Institute of Agri-Business Management (2007), College of Agriculture at Bharuch and Waghai and ASPEE SHAKILAM Agricultural Biotechnology Institute at Surat have been started during the year 2012. Further, the College of Agricultural Engineering & Technology at Dediapada (2013) and College of Fisheries Science at Navsari (2015) were also established at NAU.

The foundation of agricultural research had been laid down way back during the year 1896 by establishing Main Cotton Research Station at Surat, Regional Cotton Research Station (1913) at Bharuch, Regional Rice Station (1934) at Vyara and Fruit Research Station (1935) at Gandevi by British Government

before independence of India. Further after independence, Hill Millet Research Station (1954) at Waghai, Agricultural Research Station (1959) at Tanchha, Main Sorghum Research Station (1962) at Surat, Cotton Wilt Breeding Station (1964) at Hansot, Cotton Sub-Research Station (1964) at Achhalia, Regional Horticulture Research Station (1965) at Navsari, Soil & Water Management Research Unit (1965) at Navsari, Soil Salinity Research Station (1966) at Danti-Ubharat and Sugarcane Research Station (1968) at Navsari were established by Department of Agriculture, Gujarat State. These nine research stations were then transferred to newly established Gujarat Agricultural University during the year 1972 and research activities were also started at Navsari center. Later on, Agricultural Experimental Station (1972) at Paria, Livestock Research Station (1978) at Navsari, Wheat Research Station (1980) at Bardoli, Niger Research Station (1990) at Vanarasi established by GAU and all research centers were transferred to NAU, Navsari during the year 2004. Then NAU has established research stations viz., Floriculture Farm (2004) Agricultural Research Station (2008) at Mangrol and Agricultural Research Station (2009) at Dediapada.

For developing medium skilled human resource in agricultural and allied fields to work at grass root level Agriculture Diploma Schools were established at Vyara (1982) and at Waghai (1984) under GAU, whereas after formation of NAU, Navsari Polytechnic in Agricultural Engineering (2009) at Dediapada, Polytechnic in Horticulture (2010) at Navsari. Earlier established Agriculture Diploma Schools were upgraded as Polytechnic in Agricultural (2010) at Bharuch and Vyara and new Polytechnic in Agricultural Marketing, Cooperation and Banking (2010) at Waghai, Polytechnic in Animal Husbandry (2012) at Navsari and Polytechnic in Horticulture (2012) at Paria have been established. Further, Polytechnic in Agricultural Marketing, Cooperation and Banking established at Waghai during 2010 was converted to Polytechnic in Agricultural during the year 2013.

Chronology of Development of Navsari Agricultural University, Navsari

Year	Centre Established
1896	Research Farm for Cotton at Surat which was later on converted to Main Cotton Research Station (1904)
1913	Research Station for cotton at Bharuch later on converted to Regional Cotton Research Station
1934	Sugarcane Research Station at Vyara, which is changed to Regional Rice Research Station
1935	Research Farm at Gandevi which is designated as Fruit Research Station
1954	Hill Millet Research Centre and Scheme on Paddy at Waghai
1959	Agricultural Research Station Tanchha
1962	Main Sorghum Research Station, Surat
1964	Cotton Wilt Breeding Station, Hansot
1964	Cotton Sub- Research Station, Achhalia
1965	Regional Horticulture Research Station, Navsari
1965	N. M. College of Agricultural, Navsari
1965	Soil and Water Management Research Unit, Navsari
1966	Soil Salinity Research Station, Danti- Ubharat
1968	Sugarcane Research Station, Navsari
1970	Agricultural Diploma School, Bharuch
1971	Agricultural Diploma School, Navsari
1972	Formation of Gujarat Agricultural University
1972	Fruit Research Station, Paria
1978	Livestock Research Station, NAU, Navsari
1978	Saradar Smruti Kendra, Navsari
1980	Wheat Research Station, Bardoli

1980	Bakery School, Navsari
1982	Agricultural Diploma School, Vyara
1984	Agricultural Diploma School, Waghai
1985	<i>Krishi Vigyan Kendra</i> , Waghai
1986	Livestock Inspector Training Centre, Navsari
1988	ASPEE College of Horticulture and Forestry, Navsari
1990	Niger Research station, Vanarasi
1999	Gardeners' (Mali) Training Centre, Navsari
2000	<i>Krishi Vigyan Kendra</i> at Zonal Agricultural Research Station, Vyara
2004	Formation of Navsari Agricultural University
2004	Floriculture Farm, Navsari
2007	Institute of Agri-Business Management, Navsari
2007	Agricultural Technology Information Center, Navsari
2007	<i>Krishi Vigyan Kendra</i> , Dediapada
2008	<i>Krishi Vigyan Kendra</i> , Navsari
2008	Agricultural Research Station, Mangrol
2009	Agricultural Research Station, Dediapada
2009	Polytechnic in Agricultural Engineering, Dediapada
2010	Polytechnic in Horticulture, Navsari
2010	Polytechnic in Agriculture, Bharuch & Vyara
2010	Polytechnic of Agricultural Marketing, Co-operative & Banking, Waghai
2011	<i>Krishi Vigyan Kendra</i> , Surat
2012	College of Agriculture, Bharuch
2012	College of Agriculture, Waghai
2012	Gujarat Agricultural Biotechnology Institute, Surat
2012	Polytechnic in Animal Husbandry, Navsari
2012	Polytechnic in Horticulture, Paria
2012	Educatorium (Agricultural Museum), Navsari
2013	College of Agricultural Engineering & Technology, Dediapada
2013	Polytechnic of Agricultural Marketing, Co-operative & Banking, Waghai (converted to Polytechnic in Agriculture)

Mandate of the University

1. Making provision for imparting higher and lower education in different faculties *viz.*, Agriculture, Horticulture, Forestry, Agribusiness Management, Agricultural Engineering and Technology and other fields of Agriculture and allied sciences like Food Processing Technology, Biotechnology, Fisheries, *etc.*
2. Further advancement of education and location specific research in agriculture and allied sciences for all farmer's related problems.
3. Implement innovative extension education programmes for transfer of technology.
4. Such other academic and research programmes as the University may initiate from time to time, based on the location specific need and demands including modern sciences.

Vision

Transform Navsari Agricultural University into a Knowledge Power Centre

Mission Statement

Attain excellence in education, relevance in research and outreach in extension education.

Goals

- Diversification of educational programmes
- Strengthening of Central and College Libraries
- Counseling and Placement through campus interviews
- Enhance *Total Factor Productivity* of mandated crops of South Gujarat
- Reduction in the cost of cultivation to improve profit margin
- Value addition and by product utilization
- Evolving Remunerative and Sustainable farming systems

Objectives

Education

- Generate demand and need based qualified, competent and confident scientific manpower in the field of agriculture and allied sciences.
- Make agricultural education responsive to the growing and time bound needs of the stakeholders in view of Globalization scenario.
- Impart entrepreneurial and business skills in order to develop professionalism in the graduates and diploma holders.
- Holistic development of students' personality by nurturing competitive spirit and public service motive.

Research

- Broaden and strengthen the research base of the University.
- Enhancement of genetic yield potential through conventional and biotechnological tools.
- Evolve need based location specific market oriented, remunerative, productive, sustainable, eco-friendly and scale neutral technologies for different agro-eco-socio economic situations of south Gujarat.
- Develop technologies for rejuvenation, reclamation and conservation of natural resources including bio-diversity.
- Evolving modern agricultural practices, value addition and processing technologies for increasing the Total Factor Productivity of various agriculture occupations like Horticulture, Floriculture, Animal husbandry and Inland Fisheries.
- Design and set up viable mechanisms for developing situation specific management models/modules for different production systems based on changing needs and demands.
- Production of Breeders', Foundation and Certified seeds/grafts/seedlings/ of the mandate crops to assure higher yield, pest and disease resistance and quality.

Extension Education

- Generate middle level technicians in the fields of agriculture, horticulture, livestock management, bakery, gardening and landscaping and other agro-related courses.
- Conduct Training and Demonstration to the Officers of the Line Departments / Corporates / Cooperatives / NGOs and other extension functionaries.
- Upscale farmers' skills in modern agriculture and horticulture for green field employment.
- Frontline extension through FLDs and OFTs.
- Assume greater role in technology dissemination and agriculture development especially in the tribal areas of South Gujarat.

Functioning of the University

The Governor of Gujarat is the Chancellor of University and by virtue of post he/she is the head of the University. The other powers as conferred upon him/her by the University Acts and Statutes are exercised as and when required.

The Vice Chancellor or *Kulpati* is the whole time officer of the University and appointed by the Chancellor. Vice-Chancellor is the principal executive and academic officer of the University and ex-officio member and Chairman of the BoM, Academic, Research and Extension Council. Further, he is empowered to convene the meetings of BoM and academic council. He presides over the convocation of the University in the absence of Chancellor. Vice Chancellor is responsible for the due maintenance of discipline and has full control over affairs of the University. He is also responsible for presentation of annual financial estimates and annual accounts and balance sheet of the University to the BoM. Vice Chancellor is responsible for proper administration of the University and for close co-ordination and integration of teaching, research and extension education.

Director of Research and Dean PGS monitors research activities, PG admission and PG studies of the University. He is responsible for coordination of Post Graduate studies in all faculties of the University, supervision and maintenance of records pertaining to PG courses, instruction and students. In the capacity of Director of Research, he coordinates research of University in close cooperation with the Deans of faculties, research scientists and other officers of University. He also supervises and ensures efficient working of the research stations of the University. He is the chairman of PG Board of Studies.

Director of Extension Education caters the need of dissemination of useful and latest technology to the farmers. He also plan and execute extension programme based on needs of farmers. Further, he is responsible for publicity of important events through media.

The Registrar of the University is due custodian of the records of academic performance of students of the University including course taken, grades obtained, degrees and diploma awarded, prizes and other distinction won and the common seal of the University. He is also ex-officio secretary to the BoM and Academic council.

Director of Student's welfare looks after arrangements of boarding and lodging facilities for the students, providing counseling to the students, supervising extracurricular and alumni activities. He is also responsible for placement of graduates and post graduates.

The comptroller of the University is responsible for management of properties, funds and the investment of the University. He prepares budget and statement of accounts of the University under the supervision of Vice - Chancellor.

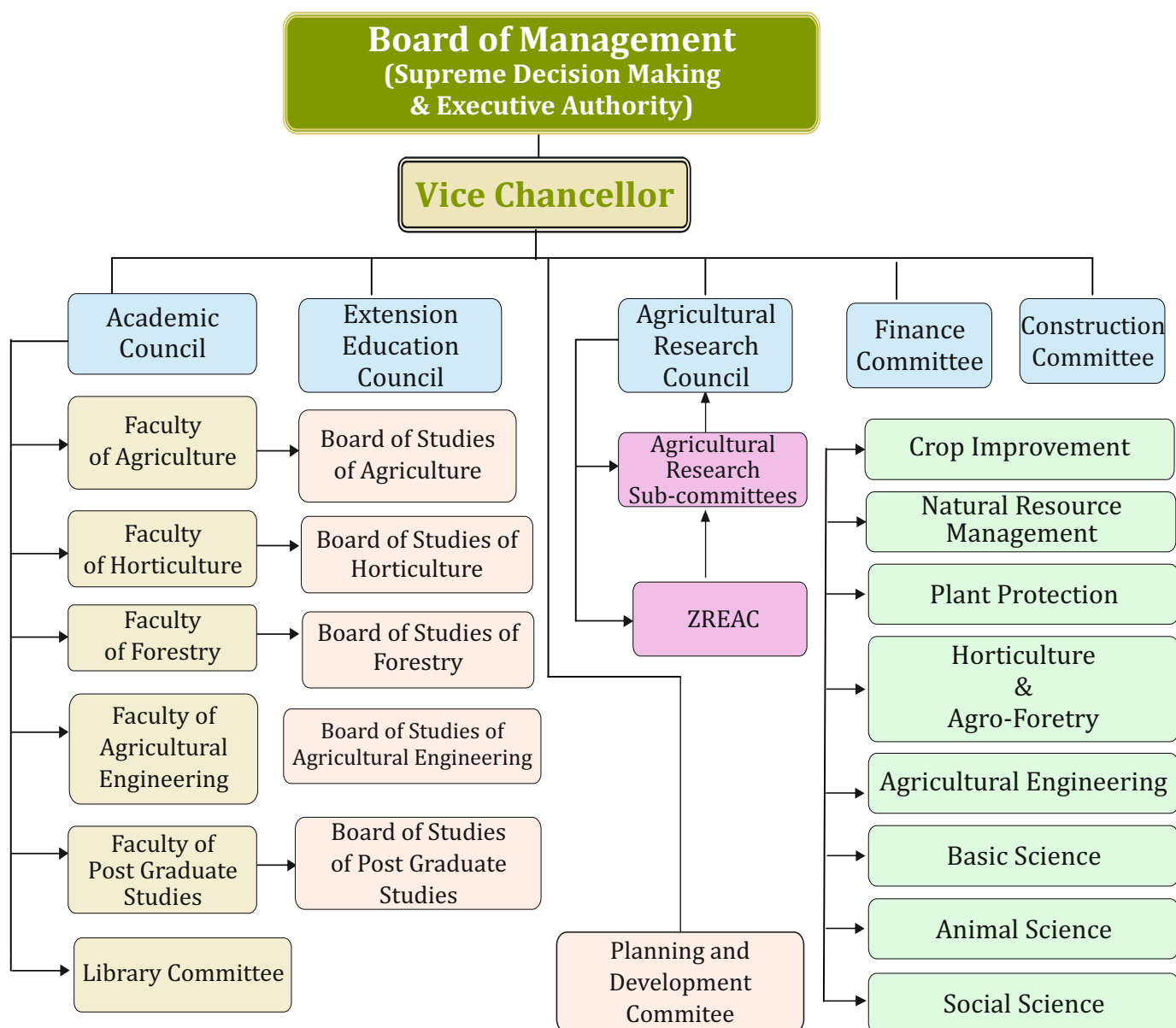
The Executive Engineer heads Department of Construction who is responsible for construction, maintenance of building, water supply, roads , fences and guest houses in the main campus as well as sub-centers.

The librarian is responsible for all matters concerning the library *i.e.* purchase, cataloguing, maintenance of books, journals and operation of the library. Each individual faculty is headed by Dean, who also acts as Chairmen of the Board of Faculties. Dean is responsible for teaching, research and extension work of various departments of the college and each department has Head, who looks after all round departmental activities. Each faculty of the University has various departments approved by BoM and meeting the national standards.

The Academic council is the highest authority for the academic affairs of the University and responsible for maintenance of education standards, system of examination and defining criteria for award of various degrees. It also determines the award of various medals to the meritorious students of the University. Council meets at every four month and as and when needed.

The Research Council is apex body for research affairs of the University and responsible for acceptance, modification and rejection of research proposals. It also monitors progress of the research projects and gives necessary suggestion as and when required.

Extension Education Council is a statutory body meets at least once in a year to review the work, discuss and deliberate the policy issues on extension system and formulate the technical programme for different units of the Directorate of Extension Education.



Board of Management Committee

Sr. No.	Name	Designation	Position
1.	Dr. Z. P. Patel	Hon'ble Vice-Chancellor, Navsari Agricultural University, Navsari	Chairman
2.	Shri. Manish Bharadwaj (IAS)	Secretary, Agriculture Farmers Welfare and Co-operation Department, Gandhinagar	Member
3.	Dr. P. M. Vaghasiya	Directorate of Horticulture, Gujarat State Krishi Bhavan, Gandhinagar (Online)	Member
4.	Dr. S. R. Chaudhary / Dr. T. R. Ahlawat	DR & Dean, PG Studies, NAU, Navsari	Member
5.	Shri. Narendrabhai Dahyabhai Modi	Agriculture Scientist, Retd. Associate Research Scientist, Sayan, Taluka: Olapad, D: Surat	Member

6.	Shri. Manojbhai Naranbhai Patel	Progressive Farmer, Shekhapur, Taluka: Kamaruj, D: Navsari	Member
7.	Smt. Prafullaben N. Desai	Women Social Worker, Kacholi, Taluka: Gandevi, Dist: Navsari	Member
8.	Shri. Lalitkumar Dungarbhai Tummar	Agriculture Entrepreneur, Vijalpore, Navsari	Member
9.	Shri. Manoj Vadh	Deputy Secretary (Higher Education), Education Department, Gandhinagar	Member
10.	Dr. B. M. Modi	Directorate of Agriculture, Gujarat State <i>Krishi Bhavan</i> , Gandhinagar	Member
11.	Dr. Falghuni S. Thakar	Directorate of Veterinary, Gujarat State <i>Krishi Bhavan</i> , Gandhinagar	Member
12.	Shri. D.V. Barot	<i>Sameti</i> Directorate and Nodal Officer <i>Krishi Bhavan</i> , Gandhinagar	Member
13.	Dr. Y. G. Prasad	Director, ICAR, Central Institute For Cotton Research, Nagpur	Member
14.	Dr. H. K. Vadvania (IAS)	Director (ATMA), Gandhinagar	Member
15.	Ms. Manish Chandra (IAS)	Secretary, Finance Department (Expenditure), Gandhinagar	Member
16.	Dr. Jerambhai Gomanbhai Patel	Agriculture Scientist, Retd. Professor and Head, Bharuch	Member
16.	Shri. S. J. Solanki	Directorate of Agriculture, Gujarat State, Gandhinagar (Online)	Member
18.	Dr. H. V. Pandya	Registrar, NAU, Navsari	Secretary

Academic Council Committee

Sr. No.	Name	Designation	Position
1	Dr. Z. P. Patel	Hon'ble Vice Chancellor, Navsari Agricultural University, Navsari	Chairman
2	Dr. S. R. Chaudhary / Dr. T. R. Ahlawat	DR & Dean, PG Studies, NAU, Navsari	Member
3	Dr. C. K. Timbadiya	Director of Extension Education, NAU, Navsari	Member
4	Dr. R. M. Naik	Director of Students Welfare, NAU, Navsari	Member
5	Dr. P. K. Shrivastava	Dean & Principal, ASPEE College of Horticulture & Forestry, Navsari	Member
6	Dr. K. G. Patel	Dean, College of Agriculture, NAU, Bharuch	Member
7	Dr. R. A. Shukla	Dean, ASPEE Agribusiness Management Institute, Navsari	Member
8	Dr. J. J. Pastagiya	Principal, College of Agriculture, NAU, Waghai	Member
9	Dr. R. M. Patel	Principal, ASPEE SHAKILAM Agril. Biotechnology Institute, NAU, Surat	Member
10	Dr. S. H. Sengar	Principal, College of Agricultural Engineering & Technology, NAU, Dediapada	Member
11	Dr. R. D. Pandya	Professor & Head, Department of Extension Education, NMCA, NAU, Navsari.	Member
12	Shri Kiranbhai Patel	JMD, ASPEE Agricultural Research & Development Foundation, Mumbai	Member

13	Dr. M. B. Patel	Retd. Professor & Head, Agril. Entomology, NMCA, NAU, Navsari	Member
14	Dr. H. C. Pathak	Retd. DR, NAU, Navsari	Member
15	Dr. N. L. Patel	Retd. Principal, ASPEE College of Horti. & Forestry, Navsari	Member
16	Dr.P. R. Bhatnagar	Head of Institution, Central Soil & Water Conservation Research & Training Institute, ICAR, Vasad Centre, An and	Member
17	Dr. B. G. Solanki	Retd. Scientist (Cotton), NAU, Surat	Member
18	Dr. J. G. Patel	Retd. Professor, NAU, Bharuch	Member
19	Dr. D. U. Patel	Retd. Research Scientist, NAU, Navsari	Member
20	Dr. Digvijay Singh Chauhan	Associate Research Scientist, Pulse & Castor Research Station, N.A.U., Navsari	Member
21	Dr.V. R. Naik	Associate Director of Research, N.A.U., Navsari	Member
22	Dr. J. M. Patel	Research Scientist, Soil & Water Management Research Unit, N.A.U. Navsari.	Member
23	Dr. H. V. Pandya	Registrar, NAU, Navsari	Secretary

Research Council Committee (w.e.f. January 01, 2022)

Sr. No.	Name	Designation	Position
1.	Dr. Z. P. Patel	Hon'ble Vice Chancellor, NAU, Navsari	Chairman
2.	Dr. T.R. Ahlawat	Director of Research & Dean PGS, NAU, Navsari	Member
3.	Dr. C. K. Timbadia	Director of Extension Education, NAU, Navsari	Member
4.	Dr. V. R. Naik	Associate Director of Research (Agri.), NAU, Navsari	Member
5.	Dr. Lalit Mahatma	Associate Director of Research, NAU, Navsari	Member
6.	Dr. R. D. Pandya	Dean, Faculty of Agriculture, NMCA, NAU, Navsari	Member
7.	Dr. P. K. Shrivastava	Dean & Principal, Faculty of Horticulture & College Forestry, NAU, Navsari	Member
8.	Dr. D. A. Chauhan	Convener (Crop Improvement) & Associate Research Scientist, & I/c Nodal officer and Unit Head, Mega Seed, NAU, Navsari.	Member
9.	Dr. H. M. Viradiya	Convener (Natural Resource Management) & Research Scientist, Main Sugarcane Research Station, NAU, Navsari.	Member
10.	Dr. Alka Singh	Convener(Horticulture) & Professor and Head, Dept. of FLA, ACHF, NAU, Navsari	Member
11.	Dr. M. B. Tandel	Convener (Forestry) & Assistant Professor, College of Forestry, NAU, Navsari	Member
12.	Dr. Abhishek Shukla	Convener (Plant Protection), Associate Professor & I/c Head, Dept. of Entomology, NMCA, NAU, Navsari	Member
13.	Dr. S. H. Sengar	Convener (Agril. Engg.) & Associate Professor, Dept. of Renewable Energy Engineering, College of Agril. Engg. & Technology, N AU, Dediapada	Member
14.	Dr. R. M. Naik	Convener (Social Science) & Associate, Dept. of Extension Education, NMCA, NAU, Navsari.	Member

15.	Dr. Sanjay Jha	Convener (Basic Science) & Associate Professor, Dept. of Plant Biotechnology, ASPEE SHAKILAM Biotechnology, NAU, Surat	Member
16.	Dr. B. N. Patel	Rtd. Dean & Principal, ASPEE College of Horticulture & Forestry, NAU, Navsari	Member
17.	Dr. Anil R. Chinchmalatpure	Principal Scientist and Head, ICAR-Central Soil Salinity Research, Institute, Near Jyotinagar Water Tank. Zadeshwar Road, Maktampur, Bharuch, Gujarat.	Member
18.	Dr. M. C. Patel	Research Scientist, Main Cotton Research Station, NAU, Surat.	Member
19.	Dr. C.G. Intwala	Research Scientist, Main Sugarcane Research Station, NAU, Navsari	Member
20.	Dr. V. P. Usadadiya	Professor and Head, Dept. of Agronomy, NMCA, NAU, Navsari	Member
21.	Dr. S. J. Patil	Research Scientist, Agricultural Experimental Station, NAU, Paria	Member
22.	Dr. D.D. Patel	I/c Principal, College of Agriculture, NAU, Bharuch	Member
23.	Shri. Manojbhai Rameshchandra Patel	At. Pathri, Chikuwadi Faliyu, Ta. Gandevi, Dist. Navsari	Member
24.	Shri. S.J. Solanki	Director of Agriculture, Gujarat state	Member
25.	Dr. P.M. Vaghasiya	Director of Horticulture, Gujarat state	Member

Extension Education Council committee

Sr. No.	Name	Designation	Position
1	Dr. Z.P. Patel	Hon Vice Chancellor, NAU, Navsari	Chairman
2	Dr. S. R. Chaudhary/ Dr. T.R. Ahlawat	Director of Research & Dean PGS, NAU, Navsari	Member
3	Dr. K. G. Patel	Principal & Dean, College of Agriculture, NAU, Bharuch	Member
4	Dr. R. M. Naik	Director of Student Welfare, NAU, Navsari	Member
5	Dr. P. K. Srivastava	Dean, ASPEE College of Horticulture & Forestry, NAU, Navsari	Member
6	Dr. Ruchira A. Shukla	Dean, ASPEE Agri Business Management Institute, NAU, Navsari	Member
7	Dr. S.H. Sengar	Principal, College of Agricultural Engineering & Technology, NAU, Dediapada, Dist. -Narmada	Member
8	Dr. R.M. Patel	Dean, ASPEE SHAKILAM Biotechnology, NAU, Surat	Member
9	Dr. R.D. Pandya	Professor & Head, Dept of Extension Education, NMCA, NAU, Navsari	Member
10	Dr. Mahaveer Chaudhary	Principal, Agriculture Polytechnic, NAU, Waghaj, Dist: Dang	Member

11	Dr. C.D. Pandya	Senior Scientist and Head, <i>KrishiVigyanKendra</i> , NAU, Vyara, Dist: Tapi	Member
12	Dr. S.C. Mali	Assoc. Research Scientist, Main Sugarcane Research Station, NAU, Navsari	Member
13	Shri Bharatbhai Naranji Desai	Shri Umarsadi Anavil Pragati Mandal (Mumbai), At. & Po. Umarsadi, Dipli Falia, Ta. Pardi, Dist. Valsad	Member
14	Dr. Tulsibhai L. Mavani	President, Dr. Ambedkar <i>Vanvasi Kalyan</i> Trust, Near ChoksiWadi, Rander Road, Surat.	Member
15	Shri Bharatbhai Nanubhai Patel	Nandanvan Gir Gaushala and Charitable Trust (Nandanvan Prakrutik Krushi Kendra), At: Sanvalla, Ta: Mahuva, Dist: Surat	Member
16	Director of Agriculture	<i>Krishi Bhavan</i> , Sector - 10 A, 'CH' Road, Gandhinagar-382 010	Member
17	Director of Horticulture	<i>Krishi Bhavan</i> , Sector - 10 A, 'CH' Road, Gandhinagar-382 010	Member
18	Director of Animal Husbandry	<i>Krishi Bhavan</i> , Sector - 10 A, 'CH' Road, Gandhinagar-382 010	Member
19	Shri Dharmeshbhai Bhagubhai Patel	At: Chijgam, Ta: Jalalpore, Dist: Navsari	Member
20	Smt. Nishaben Shaileshbhai Chaudhary	At: Parvat, Ta: Mandvi, Dist: Surat	Member
21	Dr. S.D. Kavad	Associate Professor (Extension), Directorate of Extension Education, NAU, Navsari	Member
22	Dr. C.K. Timbadia	Director of Extension Education, Navsari Agricultural University, Navsari	Member Secretary

Planning and Development Committee

Sr. No.	Name	Designation	Position
1	Dr. Z. P. Patel.	Hon Vice Chancellor, NAU, Navsari	Chairman
2	Dr S. R. Chaudhary / Dr. T.R.Ahlawat	Director of Research & Dean PGS, NAU, Navsari	Member
3	Dr. C. K. Timbadiya	Director of Extension Education, NAU, Navsari	Member
4	Dr. R. M. Naik	Director of Students Welfare, NAU, Navsari	Member
5	Dr. H.V. Pandya	Registrar, NAU, Navsari	Member
6	Shri. Chirag B. Naik	Comptroller, NAU, Navsari	Member
7	Er. H.T.Bhalshod	Executive Engineer, NAU, Navsari	Member
8	Dr. R.D. Pandya	Dean, Faculty of Agriculture	Member
9	Dr. P.K.Shrivastava	Dean, Faculty of Horticulture	Member
10	Dr. Ruchira Shukla	Dean, Faculty of ABM	Member
11	Dr. S. H. Sengar	Dean, Faculty of Agril.Engg.	Member
12	Dr. K.G. Patel	Librarian, NAU, Navsari	Member
13	Dr. Anil Chinchmalatpure	Director CSSRI, Bharuch	Non Official Member
14	Dr. B. N. Patel	Retd. Principal, ACHF, NAU, Navsari	Non Official Member

15	Dr. C. B. Patel	Retd. Associate Research Scientist, FRS, Gandevi	Member
16	Dr. V. M. Thumar	Retd. Planning Officer, NAU, Navsari	Non Official Member
17	Dr. Lalit Thumar	Surbhi Food and Namkins, Navsari	Non Official Member
18	Dr. D. D. Patel	Principal, College of Agriculture, Bharuch	Co-opt Member
19	Dr. P. K. Shrivastava	Principal, College of Forestry, Navsari	Co-opt Member
20	Dr. J. J. Pastagia	Principal, College of Agriculture, Waghai	Co-opt Member
21	Dr. R. M. Patel	Principal, Aspee Sakilam Biotechnology Institute, Surat	Co-opt Member
22	Dr. V. R. Naik	Associate Director of Research, NAU, Navsari	Co-opt Member
23	Dr. T. R. Ahlawat/Dr. Lalit Mahatma	Associate Director of Research, NAU, Navsari	Co-opt Member
24	Prof. A. R. Lathiya	Planning Officer	Member Secretary

SC/ST Committee

Sr. No.	Name	Designation	Position
1	Dr. V. K. Parmar	Professor, ASPEE College of Horticulture and Forestry, NAU, Navsari	Chairman
2	Dr. Gautambhai R. Parmar	Assistant Professor, ASPEE Agri. Business Management Institute, Navsari	Member-Secretary
3	Dr. Mukesh R. Parmar	Assistant Professor, ASPEE College of Horticulture and Forestry, NAU, Navsari	Member
4	Shri. Bhavesh D. Chaudhary	Assistant Professor, ASPEE Agri. Business Management, NAU, Navsari	Member
5	Shri. Hiteshbhai T. Patel	Senior Clark, Controller Register, NAU, Navsari	Member
6	Dr. Ajaykumar P. Patel	Assistant Professor, College of Agriculture, NAU, Waghai	Member
7	Shri. Arpit J. Dhodiya	Assistant Professor, KVK, NAU, Vyara	Member
8	Shri. Valajibhai T. Parmar	Agriculture Officer, Principal, College of Agricultural, NAU, Bharuch	Member
9	Shri. S. B. Chaudhary	Senior Clark, ASPEE SHAKILAM College, NAU, Surat	Member

Gender Committee

Sr. No.	Name	Designation	Position
1	Dr. Alka Singh	Professor, ASPEE College of Horticulture & Forestry, NAU, Navsari	Chairperson/ Nodal Officer
2	Dr. Jhon Priya	Associate Professor, Department of Plant Pathology, N.M.College of Agriculture, NAU, Navsari	Member
3.	Dr. Manjushree Singh	Assistant Professor, N.M.College of Agriculture, NAU, Navsari	Member
4	The topper student of the concerned faculty	The topper student of the concerned faculty	Member
5	Smt. Patel Kuntaben Mohanbhai	Sr. Clerk, Principal, N.M. College of Agriculture, NAU, Navsari	Member
6	Head of Unit to which the case relates. In case involving the Non-teaching employees, the Registrar or his nominee shall be the member.		Member
7	Smt. Harshaben Shah	Gram Seva Trust Kharel, Ta. Gandevi, Dis. Navsari	Member
8	Dr. Sonal Tripathi	Associate Professor, N.M.College of Agriculture, NAU, Navsari	Secretary

Important Meetings and decisions

Board of Management

During the year under report two meetings of Board of Management were held and important decisions taken were as under –

સંચાલક મંડળની ૪૫મી બેઠક તારીખ ૦૮/૧૦/૨૦૨૧

XLV meeting of BoM (08/10/2021)

To Approve the minutes of the XLIV meeting of Board of Management held on Dt. 26.03.2021
Report on the action taken on the minutes of the XLIV meeting of Board of Management held on Dt. 26.03.2021
આથી સર્વાનુમતે ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટીના તમામ પ્રકારના બાંધકામો બીજો આદેશ ન થાય ત્યાં સુધી ભારત સરકારના જળશક્તિ વિભાગના તાબાની પબ્લિક લીમિટેડ કંપની WAPCOS LTD ને સોંપવા માટે મંજૂરી આપવામાં આવે છે.
આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, ભરૂચ મુકામે વિદ્યાર્થીઓ માટે સને ૧૯૮૩ માં બનાવેલ ડીપ્લોમાં હોસ્ટેલ જર્જરિત અવસ્થાના લીધે વિદ્યાર્થીઓને રહેવા લાયક ન હોય સ્ટેચ્યુટ એ-૧૨૧ આઈટમ નં. ૮૪ થી મળેલ સત્તા મુજબ આ ડીપ્લોમાં હોસ્ટેલ ને રદ બાતલ કરી તોડી નાખવાની સર્વાનુમતે મંજૂરી આપવામાં આવે છે.
આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, નવસારી મુકામે વિદ્યાર્થીઓ માટે સને ૧૯૭૪ માં બનાવેલ હોસ્ટેલ બ્લોક બીજર્જરિત અવસ્થાના લીધે વિદ્યાર્થીઓને રહેવા લાયક ન હોય સ્ટેચ્યુટ એ-૧૨૧ આઈટમ નં. ૮૪ થી મળેલ સત્તા મુજબ આ હોસ્ટેલ બ્લોક બી ને રદ બાતલ કરી તોડી નાખવાની સર્વાનુમતે મંજૂરી આપવામાં આવે છે.
આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, નવસારી મુકામે વિદ્યાર્થીઓ માટે સને ૧૯૭૪ માં બનાવેલ હોસ્ટેલ બ્લોક સી જર્જરિત અવસ્થાના લીધે વિદ્યાર્થીઓને રહેવા લાયક ન હોય સ્ટેચ્યુટ એ-૧૨૧ આઈટમ નં. ૮૪ થી મળેલ સત્તા મુજબ આ હોસ્ટેલ બ્લોક સી ને રદ બાતલ કરી તોડી નાખવાની સર્વાનુમતે મંજૂરી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, નવસારી મુકામે સને ૧૯૮૬ માં બનાવેલ બેકારી શાળા નું મકાન જર્જરિત અવસ્થાના લીધે વપરાશ લાયક ન હોય સ્ટેચ્યુટ એ-૧૨૧ આઈટમનં. ૮૪ થી મળેલ સત્તા મુજબ સંચાલક મંડળ આ ડીપ્લોમાં હોસ્ટેલ ને રદ બાતલ કરી તોડી નાખવાની સર્વાનુમતે મંજૂરી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, નવસારી મુકામે (૧) વર્ગ-૪ ના એ કેટેગરીના બ્લોક નંબર ૧/મકાન નંબર એ-૧ થી એ-૨૪ (૨) વર્ગ ૩બી-૧ કેટેગરીના ના બ્લોક નંબર ૩/મકાન નંબર ૨૫ થી ૩૬ (૩) વર્ગ ૩ સી કેટેગરીના ના બ્લોક નંબર ૨/મકાન નંબર ૧૩ થી ૨૪ ની જર્જરિત અવસ્થાના લીધે રહેવા લાયક ન હોય સ્ટેચ્યુટ એ-૧૨૧ આઈટમ નં. ૮૪ થી મળેલ સત્તા મુજબ આ ત્રણેય રહેણાંકના મકાનો રદ બાતલ કરી તોડી નાખવાની સર્વાનુમતે મંજૂરી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, વઘઈ મુકામે સને ૧૯૮૭ માં ₹ ૧૮,૨૬,૩૮૨/- ની કિંમતે ૧૧૮૪ ચો.મીટરની કૃષિ પોલિટેકનિક ની વનરાજ બોઈઝ હોસ્ટેલ જર્જરિત અવસ્થાના લીધે વપરાશ લાયક ન હોય સ્ટેચ્યુટ એ-૧૨૧ આઈટમ નં. ૮૪ થી મળેલ સત્તા મુજબ આ હોસ્ટેલ રદ બાતલ કરી તોડી નાખવાની સર્વાનુમતે મંજૂરી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, વઘઈ મુકામે સને ૧૯૮૭ માં ₹ ૧૮,૨૬,૩૮૨/- ની કિંમતે ૧૧૮૪ ચો.મીટરની કૃષિ પોલિટેકનિક ની વનરાજ બોઈઝ હોસ્ટેલ જર્જરિત અવસ્થાના લીધે વપરાશ લાયક ન હોય સ્ટેચ્યુટ એ-૧૨૧ આઈટમનં. ૮૪ થી મળેલ સત્તા મુજબ આ હોસ્ટેલ રદ બાતલ કરી તોડી નાખવાની સર્વાનુમતે મંજૂરી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, નવસારીનો ચાલુ નાણાંકીય વર્ષ: ૨૦૨૧-૨૨ના વાર્ષિક વિકાસ કાર્યક્રમ અંતર્ગત વિકાસ ખર્ચ (Development charges) હેઠળ કૃષિ શિક્ષણ, વિસ્તરણ શિક્ષણ અને સંશોધનની વિવિધ ચાલુ બાબતોના ₹ ૬૭૩૬.૦૯ લાખ, ચાલુ બાંધકામના ₹ ૨૦૦.૦૦ લાખ તેમજ નવી બાબતોના ₹ ૧૫.૫૭ લાખ માટેની કુલ અંદાજપત્રીય જોગવાઈ ₹ ૬૯૫૧.૬૬ લાખની મર્યાદામાં હાથ ધરવા માટેના “વાર્ષિક વિકાસ કાર્યક્રમ ૨૦૨૧-૨૨” ને બહાલી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, સને ૨૦૨૧-૨૨ના વર્ષની વિકાસ ખર્ચ યોજનાઓની મંજૂર થયેલ અંદાજપત્રીય જોગવાઈ ₹ ૬૯૩૬.૦૯ લાખ અને સ્થાયી ખર્ચ યોજનાની અંદાજપત્રીય જોગવાઈ ₹ ૭૧૪૦.૪૫ લાખ એમ બંને મળીને કુલ ₹ ૧૪૦૭૬.૫૪ લાખની અંદાજપત્રીય જોગવાઈ સ્વીકારવામાં આવે છે અને મંજૂર થયેલ જોગવાઈની મર્યાદામાં ખર્ચ કરવા તથા રીએપ્રોપીએશન કરવાની સત્તા માન. કુલપતિશ્રીને આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, નવસારી હસ્તક વર્ષ ૨૦૨૧-૨૨ ની અંદાજપત્રીય જોગવાઈમાં વિકાસ ખર્ચ હેઠળ વિભાગ-૧ અંતર્ગત મંજૂર થયેલ નવા કાર્યક્રમો ’. ૧૫.૫૭ લાખને અમલ કરવાની બહાલી આપવામાં આવે છે.

"It is resolved that the appointments of the following members as Non-Official members of the Planning and Development Committee are hereby approved.

Sr. No.	Name of Non-official Member of PDC
1	Dr. B. N. Patel, Retd. Principal, ACHF, NAU, Navsari
2	Dr. V. M. Thumar, Retd. Planning Officer, NAU, Navsari
3	Dr. Lalit Thumar, Surbhi Food and Namkins, Navsari
4	Dr. C. B. Patel, Retd. Associate Professor, FRS, Gandevi

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, હસ્તકની વિકાસ ખર્ચ (પ્લાન)ની ચાલુ યોજનાઓ માટે નાણાંકીય વર્ષ ૨૦૨૧-૨૨ માટે કુલ ₹ ૭૩૭૨.૮૭ લાખની સુધારેલ અંદાજપત્રીય જોગવાઈને સરકારશ્રીમાં રજુ કરવા મંજૂરી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, નવસારી હસ્તકની વિકાસ ખર્ચ (પ્લાન) ની નાણાંકીય વર્ષ ૨૦૨૨-૨૩ માટે ચાલુ યોજનાઓ માટે ₹ ૮૬૧૫.૬૮ લાખની અંદાજપત્રીય જોગવાઈને સરકારશ્રીમાં રજુ કરવા મંજૂરી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, નવસારી હસ્તક વિકાસખર્ચ હેઠળ આગામી વર્ષ ૨૦૨૨-૨૩ની અંદાજપત્રીય જોગવાઈમાં સુચિત નવા બાંધકામો (સામેલ પત્રક ૧૩.૫.૧ મુજબ) સરકારશ્રીમાં રજુ કરવા મંજૂરી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, નવસારી હસ્તક વિકાસ ખર્ચ યોજનાની આગામી વર્ષ ૨૦૨૨-૨૩ની અંદાજપત્રીય જોગવાઈમાં મુકવાના થતા ₹ ૫.૦૦ લાખ કે તેથી વધુ કિંમતના નોન રીકરીંગ સાધનોને (સામેલ પત્રક ૧૩.૬.૧ મુજબ) સરકારશ્રીમાં રજુ કરવા મંજૂરી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, ન. મ. કૃષિ મહાવિદ્યાલય, નવસારી કૃષિ યુનિવર્સિટી, નવસારીનાં નિયંત્રણ હેઠળ કાર્યરત વિકાસ ખર્ચ યોજના (પ્લાન) "Landscaping at University Campus" બ.સ. ૧૨૭૧૨/૦૨ ને તા.૦૧/૦૬/૨૦૨૧ની અસરથી ફ્લોરીકલ્ચર એન્ડ લેન્ડસ્કેપ આર્કિટેક્ચર વિભાગ, અસ્પી બાગાયત-વ-વનીય મહાવિદ્યાલય, નવસારી કૃષિ યુનિવર્સિટી, નવસારીના સીધા નિયંત્રણ હેઠળ મુકવા તેમજ સદર યોજનાના હેતુઓ ધ્યાને લઈને કામગીરી કરવા આથી કાર્યોત્તર બહાલી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી ખાતેના સરદાર સ્મૃતિ કેન્દ્રના રીનોવેશનને લગતી યુનિવર્સિટીની જરૂરીયાત મુજબ મોટાભાગની અથવા સંપૂર્ણ રીનોવેશનની કામગીરી કોઈ સંસ્થા/વ્યક્તિ/દાતા પોતાના માણસો/કોન્ટ્રાક્ટરો રોકી પોતાના ખર્ચે બારોબાર કરાવી શકાશે તે માટે સંચાલક મંડળ દ્વારા તેના અમલીકરણની મંજૂરી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, વર્ષ ૨૦૧૯-૨૦ દરમ્યાન નવસારી કૃષિ યુનિવર્સિટી હેઠળના કૃષિ વિજ્ઞાન કેન્દ્ર, વ્યારા, જિ.તાપી ખાતે પરિશિષ્ટ-૧ મા દર્શાવ્યા મુજબ નવા મંજૂર થયેલ બે પ્રોજેક્ટ્સ હેઠળની ગ્રાન્ટ અને પ્રવૃત્તિઓની નોંધ લઈને સંચાલક મંડળ દ્વારા તેના અમલીકરણની કાર્યોત્તર મંજૂરી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, યુનિવર્સિટીના કર્મચારીઓના અંગત ઉપયોગ માટે કૃષિકાર ભવનોના રૂમો, રસોડા તથા પટાંગણની ફાળવણી માટેના નિયમો અંગેના ઉપરોક્ત જાહેરનામા નં. ૨/૨૦૧૮ના મુદ્દા નં.૬માં “કૃષિકાર ભવનના મકાનની અંદર કોઈપણ પ્રકારના પારિવારીક/સામાજિક કાર્યક્રમો માટે કૃષિકાર ભવનની સુવિધાઓ ફાળવી શકાશે નહિ, પરંતુ બલરામકૃષિકાર ભવનનું પટાંગણ અન્ય નિયમોને આધિન ફાળવી શકાશે.” મુજબ સુધારો કરવા માટે સંચાલક મંડળ દ્વારા મંજૂરી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી ખાતે ૧૫ દિવસીય “સર્ટીફિકેટ કોર્ષ ઓન ઈન્ટીગ્રેટેડ ન્યુટ્રીયન્ટ મેનેજમેન્ટ ફોર ફીલ્ડ/ઈન્ટર ડીલર્સ” આ સાથે સામેલ પરિશિષ્ટ-૨ ગાઈડલાઈન અને નીતિ નિયમો મુજબ શરૂ કરવા માટે સંચાલક મંડળ દ્વારા કાર્યોત્તર મંજૂરી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી ખાતે ૧૨ અઠવાડિયાનો “સર્ટીફિકેટ કોર્ષ ઓન ઈન્સેક્ટીસાઈડ્સ મેનેજમેન્ટ ફોર ઈન્સેક્ટીસાઈડ્સ ડીલર્સ/ડિસ્ટ્રીબ્યુટર્સ” શરૂ કરવા માટે આ સાથે સામેલ પરિશિષ્ટ-૪ Ministry of Agriculture and Farmers Welfareની ગાઈડલાઈન અને નીતિ નિયમો મુજબ શરૂ કરવા માટે સંચાલક મંડળ દ્વારા મંજૂરી આપવામાં આવે છે. વધુમાં, ભવિષ્યમાં આ પ્રકારના અભ્યાસક્રમ ચાલુ કરવાના થાય ત્યારે દર વખતે મંજૂરી અર્થે સંચાલક મંડળમાં ન મુકતા માન. કુલપતિશ્રી તેને મંજૂરી આપી શકે તે અંગેની સત્તા સંચાલક મંડળ દ્વારા માન. કુલપતિશ્રીને આપવામાં આવે છે.

નવસારી કૃષિ યુનિવર્સિટી, નવસારીના સને ૨૦૨૧-૨૨ના વર્ષની વિકાસ ખર્ચ યોજનાઓની અંદાજપત્રની મંજૂર જોગવાઈ ₹ ૬૯૫૧.૬૬ (લાખ), સ્થાયી ખર્ચ માટે ₹ ૭૩૧૩.૭૧ (લાખ) અને સ્થાયી ખર્ચ (T&V) માટે ₹ ૨૨.૧૧ (લાખ) એમ કુલ ₹ ૧૪૨૮૭.૪૮ (લાખ) નાણાં વિભાગ દ્વારા જોગવાઈ મંજૂર કરેલ છે, જેને સ્વીકારવામાં આવે છે, અને મંજૂર જોગવાઈની મર્યાદામાં નાણાંકીય વર્ષ ૨૦૨૧-૨૨ માં ખર્ચ કરવાની મંજૂરી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટીના સને ૨૦૨૦-૨૧ (તા. ૦૧.૦૪.૨૦૨૦ થી તા. ૩૧.૦૩.૨૦૨૧) ના

વાર્ષિક હિસાબને આગળની કાર્યવાહી માટે મંજૂરી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, નવસારીનું સને ૨૦૨૨-૨૩ના વર્ષનું સ્થાયી ખર્ચ (આયોજન બહાર) યોજનાઓનો કુલ અંદાજ ₹ ૧૦૫૫૧.૮૮ (લાખ) પૈકી યુનિવર્સિટીની સૂચિત આવક ₹ ૩૫૮.૪૧ (લાખ) બાદ કરી નેટ અંદાજ ₹ ૧૦૧૯૩.૪૭ (લાખ) સરકારશ્રીમાં રજૂ કરવા ભલામણ કરવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી નવસારીના નાણાં સમિતિના નોન ઓફિસીયલ સભ્ય તરીકે શ્રીમતિ પ્રફુલ્લાબેન એન. દેસાઈને તા.૨૪.૦૮.૨૦૨૧ થી તા.૨૩.૦૮.૨૦૨૨ સુધી નિમણૂક આપેલ છે તેને બહાલી આપવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, કાર્યપાલક ઈજનેરની કચેરીના હયાત મહેકમ અને અતિ કાર્યભારણ ને ધ્યાનમાં લેતા ૪૬ મી બાધકામ સમિતિમાં મુદ્દા નં-૪૬.૧૦માં લેવામાં આવેલ નિર્ણયને (પરિશિષ્ટ-૨) બહાલી આપી તેમની કચેરી સિવાય યુનિવર્સિટીની અન્ય

તમામ કચેરીઓ રૂ. ૧૦.૦૦ લાખની (રૂપિયા દસ લાખ) કિંમતની મર્યાદામાં

૧. તમામ પ્રકારની મરામત અને નિભાવણીની કામગીરીઓ

૨. તમામ પ્રકારના નવા બાંધકામોના કોઈ પણ કામો તેમની કક્ષાએ, તેમની પાસે ઉપલબ્ધ અનુદાન માથી કરી શકશે તેમજ આ કામગીરી કરવા માટે આ મુદ્દા નોંધમાં રજૂ કરેલ આ સાથે સામેલ પરિશિષ્ટ-૧ મુજબની કાર્યપદ્ધતિ અને માર્ગદર્શનને નામદાર સરકારશ્રીના નાણાં વિભાગ સાથે પરામર્શમાં રહી આગળની કાર્યવાહી કરવી.

નવસારી કૃષિ યુનિવર્સિટી, નવસારીના તા. ૧.૧.૨૦૧૬ પહેલાના કેરીયર એડવાન્સમેન્ટ યોજના હેઠળના પસંદગી પામેલ ઉમેદવારોના સ્થગિત કરવામાં આવેલ નિમણૂક આદેશો જારી કરવા બાબતે નિર્ણય લેવા માટે એક નિષ્ણાંત સમિતિની રચના કરી સદરહુ સમિતિનો સ્પષ્ટ અભિપ્રાય મેળવી આગળની કાર્યવાહી હાથ ધરવી.

LXVI Meeting of Board of Management (01/02/2022)

સંચાલક મંડળની ૪૬મી બેઠક તારીખ ૦૧.૦૨.૨૦૨૨

To Approve the minutes of the LXV meeting of Board of Management held on Dt. 08/10/2021

Report on the action taken on the minutes of the LXV meeting of Board of Management held on Dt. 08/10/2021.

The Board of management hereby approved the examination results of different UG and PG Faculties.

"The Board of management hereby approved the list of 649 student of Under Graduate and Post Graduate and recommended for the award of degree certificates during Seventeen Annual Convocation.

Sr. No.	Name of the student with Registration Number	Degree
1	Suchismita Jena (1020217012)	Ph. D. (Horti.)
2	Pranitha B P 2010118113	M.Sc. (Agri.)

"Resolved to award "Vice Chancellor's Gold Medal" to the following students for the academic year 2020-21

Sr. No.	Name of the student with Registration Number	Degree
1	Archana A K (3010117004)	Agriculture
2	Odedara Hitesh Pratap (3020217028)	Horticulture
3	Amal A L (3030317002)	Forestry
4	Treesa Thomas (3120817032)	B.Tech. (Biotechnology)
5	Doshi Dharmil Bhaveshkumar (3050917006)	B. Tech. (Agril. Engineering)

"Resolved to award Donors' **"Gold Plated Silver Medals"** to seven Post Graduate Students of the M.Sc., MBA and Ph.D. in the Faculty of Agriculture, Horticulture, Forestry and ABM for the academic year 2020-21"

"Resolved to award Donors' **"Gold Plated Bronze Medals"** to four Post Graduate Students of the M.Sc. and Ph.D. in the Faculty of Agriculture, Horticulture and Forestry for the academic year 2020-21"

"Resolved to award of **"Matrushree Sukhiben Lallubhai Patel Gold Medal"** to the Post Graduate Student Chauhan Nehal Gijubhai Registration No. 2010118027 of the M.Sc. (Agriculture) for the academic year 2020-21"

"Resolved to award Donors' **"Gold Plated Silver Medals"** to ten Under Graduate Students in B.Sc. (Agriculture), B.Sc. (Horticulture) and B.Sc. (Forestry) for the academic year 2020-21

"Resolved to award of Donors' **"Gold Plated Bronze Medals"** to four Under Graduate Students in B.Sc. (Agriculture), B.Sc. (Horticulture) and B.Sc. (Forestry) for the academic year 2020-21

"Resolved to award of **"Dr. Jayantilal V. Majmudar Gold Medal"** to the Under Graduate Student Ms. Anisha A. Registration No.3010117003 of the B.Sc. (Agriculture) for the academic year 2020-21"

"The donor's fund along with interest up to 31st January 2022 of **"Late Jayaben Nandlal Vyas and Late Nandlal Pitambar Vyas Gold Plated Silver Medal"** is approved for transfer to Kamdhenu University, Gandhinagar". The consent of Donor is taken to transfer the fund and interest.

"The Board of Management approved the Rules for Use of Sports Places - 2022 of the Navsari Agricultural University

"The Board of Management approved the rules for use of Central Examination Hall at Navsari Agricultural University.

"Resolved that the name of following teacher from Horticulture Faculty of Navsari Agricultural University, Navsari is approved for the "Best Teacher Award" for the Year: 2020-21.

Sr. No.	Name of teacher recommended for award
1	Dr. Sanjeev Kumar Assistant Professor (Vegetable Science) ASPEE College of Horticulture and Forestry, NAU, Navsari

"It is hereby resolved that the name of following researcher from Navsari Agricultural University, Navsari is approved for the "Best Researcher Award" for the Academic year 2020-21".

Sr. No.	Name of teacher recommended for award
1	Dr. P. B. Patel , Associate Research Scientist, Main Rice Research Centre, Soil and Water Management Research Unit, NAU, Navsari

"The Board of Management resolved that to approve revise payment publication charge in Research journal to authors (Scientist/Teacher/PG Guide) as below.

Sr. No.	NAAS Rating	Revised payment amount/actual publication charge whichever is less
1	6.0 to 8.0	Rs. 10,000/-
2	> 8.0 to 10.0	Rs. 25,000/-
3	> 10.0	Rs. 50,000/-

"Resolved to approve the modification in the existing rules and regulations for the HRD programmes for the Faculties of NAU as "If any faculty member pays more than Rs.10,000/- as registration fee for participation for Seminar/ Symposium/Conference/ Training/ Courses then NAU shall be liable to pay only maximum Rs. 10,000/- and surplus registration fee has to borne by participant only."

“આથી સર્વાનુમતે ઠરાવામાં આવે છે કે રાજ્ય કૃષિ યુનિવર્સિટીઓની વેટરનરી, ડેરી અને મત્સ્યઘોગ વિજ્ઞાનની કોલેજો તેમજ પોલીટેકનીક્સ કામધેનુ યુનિવર્સિટીમાં હસ્તાંતરણ થતા નવસારી કૃષિ યુનિવર્સિટી ખાતેની પશુચિકિત્સા અને પશુપાલન મહાવિદ્યાલયની ફાઈલો તબદિલ કરવા આ કચેરીની ખાનગી/લીગલ શાખાની સામેલ લીસ્ટ મુજબની (પરિશિષ્ટ-૩) ફાઈલો કામધેનુ યુનિવર્સિટી, ગાંધીનગર ખાતે તબદિલ કરવા માટે નિયામક મંડળ મંજૂરી આપે છે.”

“આથી સર્વાનુમતે ઠરાવવામાં આવે છે કે યુનિવર્સિટીના ખાતાકીય પરીક્ષાના અભ્યાસક્રમ (પરિશિષ્ટ-૫) મુજબ ખાતાકીય પરીક્ષાનું આયોજન કરી બિનશૈક્ષણિક સંવર્ગના અધિકારીઓ/ કર્મચારીઓને બઢતી/ઉચ્ચતર પગાર ધોરણ/ફીક્સ પગારના કર્મચારીઓને નિયમિત પગાર ધોરણમાં સમાવવા માટે ખાતાકીય પરીક્ષાના અભ્યાસક્રમોને અદ્યતન કરવા માટે નિયામક મંડળ મંજૂરી આપે છે.”

“આથી ઠરાવવામાં આવે છે કે, તા.૮/૧૦/૨૦૨૧ ના રોજ સંચાલક મંડળની ૪૫મીબેઠક ના મુદ્દા નં ૪૫.૦૩ માં લેવામાં આવેલ નિર્ણય મુજબ આ યુનિવર્સિટીના મુખ્ય કેન્દ્ર અને તમામપેટા કેન્દ્રો ખાતે તમામ પ્રકારના બાંધકામોને (Engineering Procurement and Construction, MODE)ઈપીસી ટર્નકી મોડ પર ભારત સરકારના જળશક્તિ વિભાગના તાબાની પબ્લિક લીમીટેડ કંપની વાપકોસ લીમીટેડને (૭% ફી ચુકવીને) સોંપવા માટેના નિર્ણય અન્વયેનવસારી કૃષિ યુનિવર્સિટી વતી કુલસચિવ અને કાર્યપાલક ઈજનેરે સ્ટેચ્યુટ એ. ૧૨૧ આઈટમનં ૮૭ (૨) (૨) મુજબવાપકોસ લીમીટેડ સાથે તારીખ ૦૩/૦૧/૨૦૨૨ ના રોજ માન. કુલપતિશ્રી અને વાપકોસ લીમીટેડ, ગાંધીનગરના ઉપસ્થિત પ્રતિનિધિઓની હાજરીમાં કરેલ કરારનામાની કાર્યવાહીને તા. ૧૩/૦૧/૨૨ ના રોજ મળેલ ૫૫મી બાંધકામ સમિતિના મુદ્દા નં ૫૫.૦૬ માંબહાલીને ધ્યાનમાં લેતા સંચાલક મંડળ આ કાર્યવાહીને સર્વાનુમતે મંજૂરી આપવાનું ઠરાવે છે તથા આ અંગે કોઈપણ જાતનો ફેરફાર કરવાની સંપૂર્ણ સત્તા માન. કુલપતિશ્રીને એનાયત કરવામાં આવે છે.

“આથી ઠરાવવામાં આવે છે કે, તા. ૧૩/૧/૨૦૨૨ ના રોજ મળેલ ૫૫ મી બાંધકામસમિતિના મુદ્દા નં ૫૫.૦૭ માં વાપકોસ લીમીટેડ સાથે થયેલ કરારનામાની શરતોમાં જણાવેલ વહીવટી, નાણાકીય, તાંત્રિક બાબતોના સુરૂપ સંચાલન માટે કરવાની થતી કામગીરીની કાર્ય પદ્ધતિના મુસદ્દાને સર્વાનુમતે મંજૂરી આપવાનું ઠરાવે છે તથા આ અંગે કોઈપણ જાતનો ફેરફાર કરવાની સંપૂર્ણ સત્તા માન. કુલપતિશ્રીને એનાયત કરવામાં આવે છે.

“આથી ઠરાવવામાં આવે છે કે, તા.૮/૧૦/૨૦૨૧ ના રોજ સંચાલક મંડળની ૪૫મીબેઠક ના મુદ્દા નં ૪૫.૨૮ નવસારી કૃષિ યુનિવર્સિટી, નવસારીના કાર્યપાલક ઈજનેરની કચેરી સિવાયના મુખ્ય કેન્દ્ર અને પેટા કેન્દ્રો ના યુનિટ સબ યુનિટના વડાઓને રૂ.૧૦.૦૦ લાખની મર્યાદામાં (૧) તમામ પ્રકારની મરામત અને નિભાવણીની કામગીરી (૨) તમામ પ્રકારના નવા બાંધકામોના કામો કરવાની સત્તા આપવાની સૂચિત કાર્યપદ્ધતિ અને માર્ગદર્શનની પરિશિષ્ટ-૧માં મંજૂરી આપવામાં આવી હતી. જે અંગે કાર્યપાલક ઈજનેરે યુનિવર્સિટી વેબસાઈટ પર જાહેરનામાં ક્રમાંક ૭૭૨/૨૦૨૧ (જા.નં/ન.કૂ.યુ/કાઈ/સ.મં/વ.મં/૪૫.૨૮/૮૨૯૧-૮૩૦૦ તારીખ ૦૩/૧૧/૨૦૨૧ (પ્રસિદ્ધ કરેલ છે. જેમાં તા. ૧૩/૦૧/૨૦૨૨ ના રોજ મળેલ ૫૫મી બાંધકામ સમિતિના મુદ્દા નં ૫૫.૦૫માં લેવામાં આવેલ નિર્ણય મુજબની રોજમદાર ઈજનેર ની સેવાઓ મેળવવા માટેની કાર્ય પદ્ધતિઅનેઆ જાહેરનામાની કલમ નં. ઈ (E) માં આ કાર્યપદ્ધતિને ધ્યાનમાં લઈ આ સાથે સામેલ સુધારા સાથેના પરિશિષ્ટ-૧ ને સર્વાનુમતે મંજૂરી આપવાનું ઠરાવે છે તથા આ અંગે કોઈપણ જાતનો ફેરફાર કરવાની સંપૂર્ણ સત્તા માન. કુલપતિશ્રીને એનાયત કરવામાં આવે છે.

“આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, નવસારી ખાતે કરવાના થતા “અ” મુજબના કામો રીવોલ્વીંગ ફંડની આવક/ નફા માંથી અને “બ” મુજબના કામો રીવોલ્વીંગ ફંડના વ્યાજની આવક માંથી હિસાબ નિયામકશ્રી અને સંશોધન નિયામકશ્રીની ભલામણ સહ માન.કુલપતિશ્રીની મંજૂરી મેળવી નિતિ નિયમો મુજબ ખરીદી/ ખર્ચ કરવાની સંચાલક મંડળ દ્વારા મંજૂરી આપવામાં આવે છે.”

“આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, નવસારી ખાતે ૫૫ મી બાંધકામ સમિતિની કાર્યવાહી નોંધના મુદ્દા નં. ૫૫.૦૭ ના પેટા ક્રમનં. ૩ ના પત્રક-બ અને પેટા ક્રમનં. ૪ ના પત્રક-ક મુજબ નવસારી કૃષિ યુનિવર્સિટીના મુખ્ય કેન્દ્ર અને તમામ પેટા કેન્દ્રો ખાતે કરવાના થતાં તમામ પ્રકારના બાંધકામના કામો માટે ફાઉન્ડેશન ફંડના વ્યાજ આવક તેમજ રીવોલ્વીંગ ફંડનાવ્યાજ આવક માંથી કરવાના થતા કામોને અગ્રિમતા આપી જરૂરીફંડની વ્યવસ્થા કરવા સંચાલક મંડળ દ્વારા મંજૂરી આપવામાં આવે છે.”

The Board of Management approved the rules for use of Auditorium at College of Agriculture, Navsari Agricultural University, Waghai

The NSS units of Vanbandhu College of Veterinary Science and Animal Husbandry, Navsari and Polytechnic in Animal Husbandry, Navsari are approved for transfer with available fund to Kamdhenu University, Gandhinagar.

આથી ઠરાવવામાં આવે છે કે સ્ટ્રેંધનીંગ રિસર્ચ ઈન બાયોલોજીકલ કંટ્રોલ ઓફ કોપ પેસ્ટ બ.સ. ૧૨૮૪૭; સ્ટ્રેંધનીંગ ઓફ ફૂડ ક્વોલિટી ટેસ્ટિંગ લેબોરેટરી, નવસારી બ.સ. ૧૨૦૨૪ અને રીસર્ચ એન્ડ ડેવલપમેન્ટ ઈન ફૂટ કોપ્સ, નવસારી બ.સ. ૧૨૦૨૫ યોજનાઓમાં ફરજ બજાવતાં જુનિયર રિસર્ચ ફેલોને તેમની લાયકાતને ધ્યાને લીધા વગર તારીખ ૧/૧/૨૦૧૯ થી રૂપિયા ૩૧૦૦૦/- પ્રતિ માસ પ્રથમ અને બીજા વર્ષ દરમિયાન અને રૂપિયા ૩૫૦૦૦/- પ્રતિ માસ ત્રીજા વર્ષ દરમિયાન ના પગાર લાગુ પાડવા માટે સંચાલક મંડળ મંજૂરી આપે છે. આ યોજનાઓ સિવાય જો કોઈ પ્લાન યોજનાઓમાં જુનિયર રિસર્ચ ફેલોના પગાર, ફિક્સ પગાર જણાવેલ હોય તો તે યોજનાના Principal Investigator દ્વારા કુલસચિવશ્રીને આધાર પુરાવા સાથે લેખિત રજૂઆત કરવાની રહેશે જેના આધારે નામદાર ગુજરાત સરકારશ્રીમાં કુલસચિવ, ન.કૃ.યુ, નવસારી રજૂઆત કરશે અને નામદાર ગુજરાત સરકારશ્રીમાંથી સુધારો આવ્યા બાદ સદરહુ યોજનાઓમાં જુનિયર રિસર્ચ ફેલોના તારીખ ૧/૧/૨૦૧૯થી ઉપર મુજબના પગાર અમલમાં આવશે જેને સંચાલક મંડળ દ્વારા મંજૂરી આપવામાં આવે છે. જુનિયર રીસર્ચ ફેલોની જગ્યા નવેસરથી ભરવાની થાય અને જાહેરાત આપવાની થાય ત્યારે ઉપર જણાવેલ ICAR ના Office Memorandumમાં દર્શાવેલ લાયકાત મુજબ ભરતી અંગેની કાર્યવાહી કરવાની રહેશે. વર્ષ ૨૦૨૨-૨૩ અને ત્યારબાદ પ્લાન યોજના નામ. સરકારશ્રીમાં રજુ કરવાની થાય ત્યારે જે તે યોજનાના Principal Investigator તથા આયોજન શાખાએ જુનિયર રીસર્ચ ફેલોના સુધારેલ દરો રજુ કરવાના રહેશે.

નવસારી કૃષિ યુનિવર્સિટી, નવસારીના કાર્યપાલક ઈજનેરની કચેરી સિવાયના મુખ્ય કેન્દ્ર અને પેટા કેન્દ્રોના યુનિટ સબ યુનિટના વડાઓને રૂ. ૧૦.૦૦ લાખની મર્યાદામાં નીચેની વિગતના બાંધકામના કામો કરવાની સત્તા આપવા બાબત,

૧. તમામ પ્રકારની મરામત અને નિભાવણીની કામગીરી
૨. તમામ પ્રકારના નવા બાંધકામો

“આથી ઠરાવવામાં આવે છે કે, કાર્યપાલક ઈજનેરની કચેરીના હયાત મહેકમ અને અતિ કાર્યભારણ ને ધ્યાનમાં લેતા ૪૬ મી બાંધકામ સમિતિમાં મુદ્દા નં-૪૬.૧૦માં લેવામાં આવેલ નિર્ણયને (પરિશિષ્ટ-૨) બહાલી આપી તેમની કચેરી સિવાય યુનિવર્સિટીની અન્ય તમામ કચેરીઓ રૂ. ૧૦.૦૦ લાખની (રૂપિયા દસ લાખ) કિંમતની મર્યાદામાં

૧. તમામ પ્રકારની મરામત અને નિભાવણીની કામગીરીઓ
૨. તમામ પ્રકારના નવા બાંધકામોના કોઈ પણ કામો તેમની કક્ષાએ, તેમની પાસે ઉપલબ્ધ અનુદાન માથી કરી શકશે તેમજ આ કામગીરી કરવા માટે આ મુદ્દા નોંધમાં રજુ કરેલ આ સાથે સામેલ પરિશિષ્ટ-૧ મુજબની કાર્યપદ્ધતિ અને માર્ગદર્શનને નામદાર સરકારશ્રીના નાણાં વિભાગ સાથે પરામર્શમાં રહી આગળની કાર્યવાહી કરવી.

નવસારી કૃષિ યુનિવર્સિટી, નવસારીના તા. ૧.૧.૨૦૧૬ પહેલાના કેરીયર એડવાન્સમેન્ટ યોજના હેઠળના પસંદગી પામેલ ઉમેદવારોના સ્થગિત કરવામાં આવેલ નિમણૂંક આદેશો જારી કરવા બાબતે નિર્ણય લેવા માટે એક નિષ્ણાંત સમિતિની રચના કરી સદરહુ સમિતિનો સ્પષ્ટ અભિપ્રાય મેળવી આગળની કાર્યવાહી હાથ ધરવી.

Academic Council meetings

During the year under report two meetings of Academic Council were held and important decisions taken were as under –

The XLIV meeting of the Academic Council (XLIV)

To Approve the minutes of the XLIII meeting of Academic Council held on 21.09.2020.
Report on the action taken on the minutes of the XLIII meeting of the Academic Council held on 21.09.2020 at Navsari.
૧/૧/૨૦૧૯ થી નવસારી કૃષિ યુનિવર્સિટીના સને ૨૦૨૧-૨૨ના વર્ષ માટે સ્નાતક કક્ષાએ પરિશિષ્ટ-એ મુજબની પ્રવેશ ક્ષમતા મંજૂર કરવામાં આવે છે.
Resolve to approve the revised common rules and regulation for Polytechnic courses of Navsari Agricultural University from academic year 2021-2022
Resolved to approve the intake capacity of PG students for the academic year 2021-22 for PG degree programs of various faculties offered by NAU, Navsari
Resolved to accord approval for implementing Common Academic Regulations for Post Graduate Programme 2020-21 at NAU, Navsari with immediate effect.
આથી ઠરાવવામાં આવે છે કે, ખેતીવાડી અધિકારી અને તેની સમકક્ષ કર્મચારીઓ અને મદદનીશ પ્રાધ્યાપકની ઈન-સર્વિસ Ph.D. (Horticulture) ની ઈન્ટેક કેપેસિટી ૪ (ચાર) થી વધારીને ૮ (આઠ) મંજૂર કરવામાં આવે છે.
આથી ઠરાવવામાં આવે છે કે, ખેતીવાડી અધિકારીશ્રી નીરવકુમાર નટવરભાઈ માકણી ને તેમના M.Sc. (Agri.) ડીગ્રીના ગૌણ (Minor) વિષય જીનેટિક્સ અને પ્લાન્ટ બ્રીડિંગમાં જ ઈન-સર્વિસ Ph.D. માં પ્રવેશ માટે ખાસ કિસ્સામાં મંજૂરી આપવામાં આવે છે.
Resolved that PG Students of Horticulture faculty minor course may be taken from any of the major disciplines of Horticulture / Agriculture / Agricultural Engineering / Agriculture Business Management on the basis of intended PG research programme.
Resolved to approve "Amendments in National Cadet Corps (NCC) policy of Navsari Agricultural University (NAU), Navsari.
The Academic Council resolved to recommend to Board of Management to approve maximum of Rs.10000/- an actual paid to authors.
Resolved to approve to admit the B. Tech. (Biotechnology) graduates from SAU's to disciplines viz., 1. Plant Molecular Biology and Biotechnology, 2. Biochemistry, 3. Crop/Plant Physiology, 4. Microbiology and 5. Genetics and Plant Breeding of M.Sc. (Agri.) and disciplines viz., 1. Forest Biology and Tree Improvement of M.Sc. (Forestry) degree programmes from the Academic year 2021-22.
બેઠકમાં ચર્ચાને અંતે સદર મુદ્દાનોંધ બાબતે ફેરવિચારણા કરી ત્રણેય કૃષિ મહાવિદ્યાલયના આચાર્યશ્રીઓએ પરામર્શ કરી ત્રણેય મહાવિદ્યાલયના વિદ્યાર્થીઓને એક્સમાન લાભ મળી રહે તે રીતે આગામી બેઠકમાં ફરીથી રજૂ કરવા ઠરાવવામાં આવ્યું.
Resolved to approve the suggested modification in course work, credit distribution and academic requirements for MBA (ABM) Programme from the academic year 2021-22.

Agriculture Research Council

During the year under report one meeting of Agriculture Research Council was held and important decisions taken were as under –

XIV Meeting of Agricultural Research Council (January 28, 2022)

<p>Research Council approved the minutes of the XIII Meeting of the Agricultural Research Council held on January 01, 2021 at Navsari.</p>
<p>Action Taken Report on Minutes of the Thirteenth Meeting of the Agricultural Research Council held at Navsari on 1st January, 2021 was presented and approved by the Council.</p>
<p>Details regarding recommendations for farmers and scientific communities as well as New Technical Programs approved during 17th Combined Joint AGRESCO Sub-Committee meeting of SAUs of Gujarat were presented and noted by the Council.</p>
<p>The Research Council hereby resolved to recommend the Board of Management of NAU for according Post-facto approval for implementation of research projects given in appendix-RC 14.4, submitted and financed by other agencies (public sector) at N.A.U, Navsari during the year 2020-21 and 2021-22 having a total outlay of Rs. 28.54 and 60.52 lakhs, respectively.</p>
<p>The Research Council hereby resolved to recommend the Board of Management of NAU to accord Post-facto approval for implementation of research projects given in appendix-RC 14.5, submitted and financed by other agencies (private sector) at N.A.U, Navsari during the year 2021-22 having a total outlay of Rs. 17.76 lakhs only.</p>
<p>It is resolved to recommend to Board of Management of NAU to accord post facto approval for the draft of MoU/MoAs signed by NAU and various private companies/NGOs.</p>
<p>The Research Council hereby resolved to accord approval to various constituted committees of given in appendix-RC 14.7 for various activities at University level.</p>
<p>The Research Council hereby resolved to recommend the Board of Management of NAU to grant approval for disassembling the structure of polycarbonate house and working parts of structure may be allotted for reuse in college/laboratory and non-functional parts may be auctioned</p>
<p>The Research Council is therefore requested to recommend to the Board of Management the name of Dr. P. B. Patel, Associate Research Scientist, Main Rice Research Centre, SWMRU, NAU, Navsari for the "Best Researcher Award" for the year 2020-21</p>
<p>આથી ઠરાવવામાં આવે છે કે, સંશોધન આધારિત ખેડૂત ઉપયોગી આધુનિક ટેકનોલોજી દક્ષિણ ગુજરાતના છેવાડાનાં ખેડૂતો સુધી પહોંચાડી શકાય તે માટે નવસારી કૃષિ યુનિવર્સિટી હસ્તકના તમામસંશોધન કેન્દ્રો/વિભાગોના તમામ વૈજ્ઞાનિકશ્રીઓએ પોતાના કાર્યક્ષેત્રીય વિસ્તારમાં વ્યાપક પ્રમાણમાં વિસ્તરણ કામગીરી માટે ફરજિયાત પણે પ્રયત્નો હાથ ધરવા માટે સંશોધન પરિષદ દ્વારા જણાવવામાં આવે છે.</p>
<p>આથી ઠરાવવામાં આવે છે કે, દક્ષિણ ગુજરાતની ખેતીમાં અનુભવાતી સમસ્યાઓ પૈકી બે મહત્વની સમસ્યાઓ પોષકતત્વોની ઉણપ અને પિયત પાણીના TDSમાં વધારાના નિવારણ માટેની ટેકનોલોજી/ ભલામણોને ખેડૂતો સરળતાથી સમજી શકે તેવી ભાષામાં પ્રચાર અને પ્રસાર થાય તેવી માહિતી પુસ્તિકા તૈયાર કરી વેબ સાઈટ ઉપર તેમજ યુનિવર્સિટી હેઠળના કે.વી.કે. તથા સંશોધન કેન્દ્રો/વિભાગો દ્વારા માહિતી પૂરી પાડવા ઘનિષ્ઠ પ્રયત્નો હાથ ધરવા માટે સંશોધન પરિષદ દ્વારા મંજૂરી આપવામાં આવે છે.</p>
<p>આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, નવસારી હસ્તક વર્ષ ૨૦૨૩-૨૪ની અંદાજપત્રીય જોગવાઈમાં વિકાસખર્ચ હેઠળ મુકવાના થતા સૂચિત નવા કાર્યક્રમોની (સામેલ પત્રક ૧૪.૧૨ મુજબ) સમીક્ષા કરી આગામી પ્લાનીંગ એન્ડ ડેવલોપમેન્ટ કમિટીનીબેઠકમાં રજૂ કરવા સંશોધન પરિષદ દ્વારા ભલામણ કરવામાં આવે છે.</p>
<p>આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી, નવસારી હસ્તક વર્ષ ૨૦૨૩-૨૪ની અંદાજપત્રીય જોગવાઈમાં વિકાસખર્ચ હેઠળ ચાલુ કાર્યક્રમોમાં કરવાનાં થતા સૂચિત સુધારા/ સ્ટ્રેન્ધનીંગની "Strengthening of organic farming cell</p>

(Phase II)" નાં બદલેસૂચિત નવા કાર્યક્રમતરીકે "Center of Excellence for organic farming cell" પ્રપોઝલ તૈયાર કરી આગામી પ્લાનીંગ એન્ડ ડેવલોપમેન્ટ કમિટીની બેઠકમાં રજૂ કરવા સંશોધન પરિષદ દ્વારા જણાવવામાં આવે છે.

આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટીના વિવિધ સંશોધન/વિસ્તરણ કેન્દ્રો, પેટા સંશોધન કેન્દ્રો, વિવિધ કે.વી.કે., કોલેજ તેમજ પોલીટેકનીક હસ્તકના સંશોધન-વ પ્રાયોગિક ફાર્મ વિગેરે ઉપર વિવિધ પાકોના અખતારાઓ સંભાળતા તમામ પી.આઈ તેમજ કો- પી.આઈએ AEMS સોફ્ટવેરમાં અખતારાને લગતા કલ્ચરલ ઓપરેશનો, ડેટા અને તેને અનુરૂપ ફોટો કે વીડીયો જેવી માહિતીની ઓનલાઈન એન્ટ્રી ફરજિયાતપણે કરવાનું તથા સદર અખતારાને લગતી એન્ટ્રીઓનું સંશોધન નિયામકશ્રીની આગેવાની હેઠળ વખતો વખત ઓનલાઈન મોનીટરીંગ કરવા તેમજ તેના અમલીકરણ માટેની મંજૂરી આપવામાં આવે છે.

Extension Education Council

During the year under report one meeting of Extension Education Council was held and important decisions taken were as under –

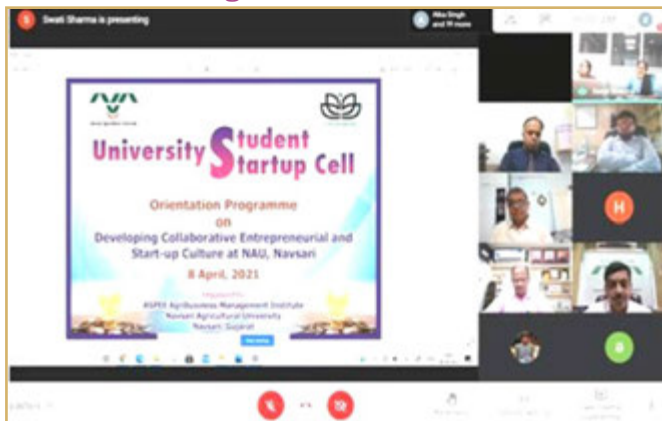
XIII Meeting of Extension Education Council (22.06.2022)

૧. નવસારી કૃષિ યુનિવર્સિટીની વિસ્તરણ શિક્ષણ પરિષદની બારમી બેઠક તા.૨૬/૦૨/૨૦૨૧ના રોજ નવસારી ખાતે sonlinef મળેલ હતી, જેની કાર્યનોંધ અંગે ચર્ચા કરીને મંજૂર કરવામાં આવી.
૨. નવસારી કૃષિ યુનિવર્સિટીની વિસ્તરણ શિક્ષણ પરિષદની બારમી બેઠક તા.૨૬/૦૨/૨૦૨૧ના રોજ નવસારી ખાતે sonlinef મળેલ હતી, જેની કાર્યનોંધ અન્વયે લેવાયેલ પગલાંની સભ્યશ્રીઓ દ્વારા સમીક્ષા કરીને તેની નોંધ લેવામાં આવી.
૩. કૃષિ વિજ્ઞાન કેન્દ્ર, નક્યુ, નવસારી, જિ. નવસારી ખાતે નવા મંજૂર થયેલ "ARYA Attracting and retaining rural youth in agriculture" પ્રોજેક્ટને સંચાલક મંડળ કાર્યોત્તર મંજૂરી આપે તે માટે વિસ્તરણ શિક્ષણ પરિષદના સભ્યશ્રીઓ સંચાલક મંડળને સર્વાનુમતે ભલામણ કરે છે.
૪. કૃષિ વિજ્ઞાન કેન્દ્ર, નક્યુ, વ્યારા, જિ.તાપી દ્વારા આયોજન કરવામાં આવતી વિવિધ પ્રવૃત્તિઓ તેમજ ટેકનોલોજીના પ્રચાર અને પ્રસાર કરવા પ્રીન્ટ મીડીયા તથા ઈલેક્ટ્રોનિક મીડીયા માટે પેઈઝ ન્યુઝ અંતર્ગત ચુકવણું કરવા દરખાસ્ત રજૂ કરવામાં આવેલ હતી, પરંતુ તેની દુરાગામી અસરો વિશે ચર્ચા વિચારણા કરતા આ મુદ્દાને રદ કરવા માટે વિસ્તરણ શિક્ષણ પરિષદના સભ્યશ્રીઓ દ્વારા સર્વાનુમતે નક્કી કરવામાં આવ્યું.
૫. નવસારી કૃષિ યુનિવર્સિટી હસ્તકની બેકરીશાળા ખાતે ચાલતા વીસ અઠવાડીયાના સર્ટિફિકેટ તાલીમ કોર્સ તથા એક અઠવાડીયાના બેકરી તાલીમ વર્ગોમાં તાલીમાર્થી દીઠ લેવામાં આવતી ફીમાં સામેલ પરિશિષ્ટ : ૧ મુજબ વધારો કરવાની વિસ્તરણ શિક્ષણ પરિષદ દ્વારા મંજૂરી આપવામાં આવે છે અને તેનો અમલ આગામી બેચથી કરવાનો રહેશે.
૬. આથી ઠરાવવામાં આવે છે કે, નવસારી કૃષિ યુનિવર્સિટી દ્વારા દર વર્ષે એક વૈજ્ઞાનિકન Best Extension Scientist Award આપવા માટે સંશોધન એવોર્ડ મુજબનું ફોર્મેટ, ગાઈડલાઈન, નિયમો, સ્કોરકાર્ડ અને સર્ટિફિકેટ વિ.વિગતો તૈયાર કરવા માટે એક કમિટીની રચના કરવી અને તૈયાર કરેલ ફોર્મેટ સંચાલક મંડળની મંજૂરી માટે રજૂ કરવું. એવોર્ડ માટે વૈજ્ઞાનિકની પસંદગી માટે સંશોધન એવોર્ડ મુજબની કમિટીની રચના કરવી. એવોર્ડ માટે અલગથી ભંડોળ ફાળવવાની જરૂર નથી, પરંતુ સંશોધન એવોર્ડ મુજબ તે માટે નક્કી કરેલ રકમ દર વર્ષે સીધી એવોર્ડ રૂપે આપવી. સંચાલક મંડળ દ્વારા આ અંગેની સત્તા કુલપતિશ્રીને આપવામાં આવે તે માટે વિસ્તરણ શિક્ષણ પરિષદના સભ્યશ્રીઓ સંચાલક મંડળને સર્વાનુમતે ભલામણ કરે છે.
૭. કૃષિ વિજ્ઞાન કેન્દ્ર, નક્યુ, દેડીયાપાડા, જિ. નર્મદા ખાતે મંજૂર થયેલ "NICRA" યોજનાના અમલીકરણ માટે સંચાલક મંડળ કાર્યોત્તર મંજૂરી આપે તે માટે વિસ્તરણ શિક્ષણ પરિષદના સભ્યશ્રીઓ સંચાલક મંડળને સર્વાનુમતે ભલામણ કરે છે.
૮. નવસારી કૃષિ યુનિવર્સિટી હેઠળના તમામ શિક્ષણ, સંશોધન અને વિસ્તરણ શિક્ષણ કેન્દ્રો ખાતે યોજવામાં આવતા વિસ્તરણ શિક્ષણ કાર્યક્રમો/તાલીમો/વર્કશોપ/સેમિનારમાં ખેડૂતો, ગ્રામ્ય યુવકો, મહિલાઓ, વિસ્તરણ કાર્યકરો અને વૈજ્ઞાનિકો માટે ચા-નાસ્તો અને ભોજનના ખર્ચની મહત્તમ મર્યાદા અને નિયમો આ સાથે સામેલ પરિશિષ્ટ-૨ મુજબ સર્વાનુમતે મંજૂર કરવામાં આવે છે અને તેનો તાત્કાલિક અસરથી અમલ કરવાનો રહેશે.

3 | Events, Awards and Recognition

EVENTS ORGANIZED

Orientation Programme



The University Student Startup Cell organized orientation programme on 'Developing Collaborative Entrepreneurial and Start-up Culture' at University on April 08, 2021 in the benign presence of Hon'ble Vice Chancellor, Dr. Z. P. Patel as President; Dr. Ramesh Mittal, Director CCS, NIAM as Chief Guest; Dr. S. R. Chaudhary, Director of Research & Dean PG Studies and Dr. H.V. Pandya, Registrar as Guests of Honour. Dr. Ruchira A. Shukla, Principal & Dean, AABMI & Chairman, University Student Start-up Cell briefed about various activities of the Cell.

Webinar on Significance of Yoga during COVID-19 Pandemic



Hon'ble Vice-Chancellor, Dr. Z. P. Patel inaugurated a national level webinar 'Significance of Yoga during COVID-19 Pandemic' organized by the Directorate of Students' Welfare in collaboration with NAHEP-CAAST on June 16, 2021. Dr. S. R. Chaudhary,

Director of Research & Dean PGS and Dr. R. M. Naik, DSW were also present during the inaugural ceremony of the webinar. Dr. Ramakant Mishra, Jaipur; Dr. Ajay Pal, Haryana; Sh. Paresh Bhatt, Surat; Sh. Viman Gogoi, Bengaluru and Dr. Diwakar Singh, Navsari delivered the expert talks on the occasion and interacted with 243 participants.

International Guest Lecture on 'What a plant knows?'



Hon'ble Vice Chancellor, Dr. Z. P. Patel chaired the session of International Online Guest Lecture 'What a plant knows?' delivered by a renowned researcher Dr. Daniel A. Chamovitz, President, Ben Gurion University of the Negev, Israel on June 21, 2021. In the gracious presence of other dignitaries Prof. Daniel A. Chamovitz and Dr. Marry Williams, University of Glasgow, Mr. Kirti Bardhan moderated the event, which was attended by more than 135 participants.

Four Days Virtual Training



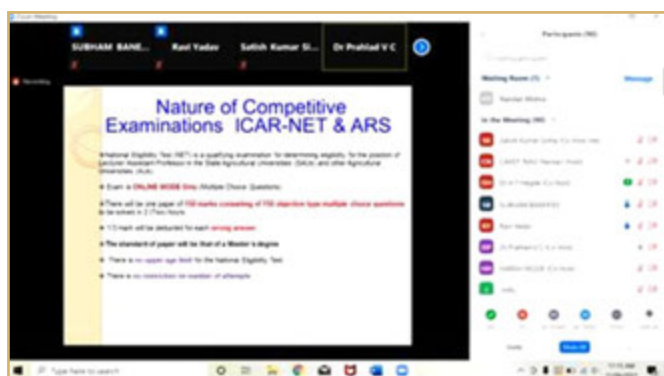
Four days virtual training program on 'Recent Trends in Collection, Processing and Value Addition of Few Important Medicinal and Aromatic plants' was organized by NAHEP-CAAST sub project during June 07-10, 2021. In the presidential address, Hon'ble Vice-Chancellor, Dr. Z. P. Patel emphasized on the role of medicinal and aromatic plants innutrition, healthcare and boosting immunity. Total 208 PG students and faculty members from various disciplines of agricultural as well as traditional Universities participated in the training.

Online Coaching for NET/SRF/ARS



ASPEE College of Horticulture & Forestry organized NET/SRF/ARS coaching series for PG students in a virtual mode during May 29 to June 06, 2021. PG aspirants from various disciplines of agriculture, horticulture as well as traditional Universities participated and interacted actively during different sessions.

Online Guest Lectures for Students



An online guest lecture was organized on 'Quality Preparation Strategies: Key to Success for NET and ARS Examination in Forestry' for the students of Forestry during June 11-12, 2021 under NAHEP-CAAST sub-project, NAU, Navsari. About 100 students participated from various Forestry Colleges of the country.

Training on Advanced Technologies in Value Addition of Horticultural Produce



Three days training program on 'Advanced Technologies in Value Addition of Horticultural Produce' was organized under NAHEP-CAAST sub-project during July 01-03, 2021 in a virtual mode. Hon'ble Vice Chancellor, Dr. Z. P. Patel presided over the inaugural ceremony and Dr. P. M. Vaghasiya, Director of Horticulture, GoG, Gandhinagar was the Chief Guest of the function and Dr. S.R. Chaudhary, DR & Dean PGS and Dr. C. K. Timbadia, DEE were the Guests of Honour. Hon'ble Vice-Chancellor highlighted the role & scope, constraints and future thrust in post-harvest sector and Dr. P. M. Vaghasiya expressed a need for the establishment of Primary Processing Centres at village level. Dr. S. R. Chaudhary emphasized on value addition of indigenous horticultural crops and need for R & D on neutraceuticals

Workshop on Opportunities for Innovation and Entrepreneurship in Agriculture



The University Student Startup Cell and NAHEP-CAAST sub-project jointly organized an online workshop on 'Opportunities for Innovation and Entrepreneurship in Agriculture' on July 13, 2021. The president of workshop Dr. Z. P. Patel, Hon'ble Vice Chancellor emphasized on stimulating

innovation and entrepreneurship through globalization and digital revolution. Total 350 PG scholars, faculty members and aspirant entrepreneurs from different parts of the country participated in the workshop

Training on Vegetable Grafting: Concepts and Applications



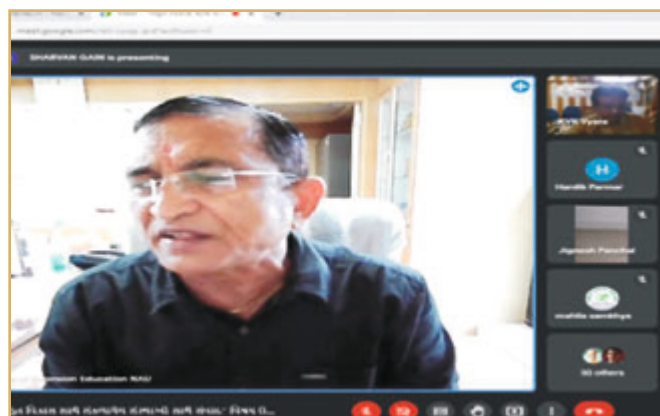
A training on 'Vegetable Grafting: Concepts and Applications' organized by the Department of Vegetable Science, ACHF, Navsari during July 16 to 24, 2021 in a virtual mode under RKVY Project for Horticulture Officers of the state. Hon'ble Vice Chancellor, Dr. Z. P. Patel presided over the inaugural ceremony and launched a documentary film on Vegetable grafting. Hon'ble Vice Chancellor also emphasized to organize such training for KVK scientists. Dr. P. M. Vaghasiya, Director of Horticulture, GoG, Gandhinagar and Dr. S. R. Chaudhary, D R & Dean PGS were the Chief Guest and the Guest of Honour on this ceremonial occasion. Thirty one officers from the State Department of Horticulture and 4 from NAU, Navsari get benefitted from the deliberations of 13 lead speakers from all across the country

Webinar on Guidance about Overseas Education



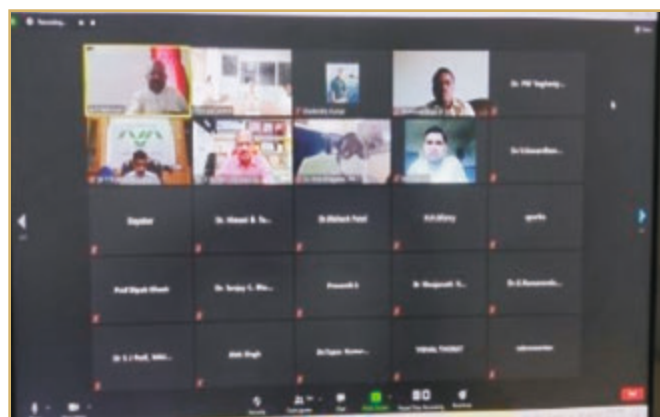
A webinar on 'Guidance about Overseas Education' was organized by Placement Cell, College of Forestry in association with Planet Education, Navsari on July 15, 2021. It was an interactive webinar wherein students discussed freely on various aspects of overseas education with the resource persons Mr. Saroj Bharati and Mrs. Mamata Jani

Webinar on Dialogue with the Organizations working for Farmers' Development



Under the chairmanship of Dr. C. K. Timbadia, DEE, Navsari, the University organized a webinar on 'Dialogue with Organizations working on Farmers' Development' in seven districts of South Gujarat on July 19, 2021. Dr. Timbadia urged to take benefit of new technologies developed by the University and also emphasised on getting additional income through post harvest management. Total 63 participants joined the dialogue held among 7 KVKs and 45 organizations

National webinar on Recent Advances in Production Technology and Value Addition of Coconut



Under the chairmanship of Hon'ble Vice Chancellor, Dr. Z. P. Patel, All India Coordinated Research Project (Palms), ASPEE College of Horticulture &

Forestry organized a national webinar on 'Recent Advances in Production Technology and Value Addition of Coconut' on August 09, 2021

National Webinar on Role of Farmer Producer Organizations (FPOs) in Linking Farmers to Markets



Hon'ble Vice Chancellor, Dr. Z. P. Patel presided over the National Webinar on 'Role of Farmer Producer Organizations (FPOs) in Linking Farmers to Markets' on August 12, 2021 organized by ASPEE Agribusiness Management Institute, Navsari. Dr. Ruchira Shukla, Principal, AABMI & Convener of webinar discussed about the relevance of FPOs in current scenario. Dr. K. C. Gummagolmath, Director (M & P), MANAGE, Hyderabad; Dr. Sagar Kisan Wadkar, Social Enterprises Management Trainer, Pune and Mr. Pramod Raje Bhosale, CEO, H Square Incubation Centre for Horticulture, Sahyadri Farms, Nashik delivered expert talks on formation, promotion of FPOs and their role in developing market linkages. Total 280 participants from 24 states of the country joined the webinar

National Seminar on Advances in Sustainable Management of Natural Resources for Food and Nutritional Security



The University hosted a National Seminar on 'Advances in Sustainable Management of Natural Resources for Food and Nutritional Security' in a virtual mode during August 26-27, 2021 organized jointly by the Department of Soil Science & Agricultural Chemistry and Agronomy in association with NAHEP-CAAST sub-project. The seminar was presided over by Dr. Z. P. Patel, Hon'ble Vice Chancellor, who emphasized on the use of AI & robotics in concurrence with precision agriculture. The Chief Guest of function, Dr. S. Bhaskar, ADG, ICAR, New Delhi focussed on judicious use of natural resources in changing climatic situations. Dr. S. R. Chaudhary, DR & Dean PGS expressed a need to address nutritional security through biofortification. Total 860 persons including PG scholars, academicians and research scientists from 24 states across the nation participated in the seminar.

Workshop on Bamboo Farming and its Management



On the auspicious occasion of World Bamboo Day, a workshop on 'Bamboo Farming and its Management' was organized by College of Forestry on September 18, 2021 in the gracious presence of Hon'ble Vice Chancellor, Dr. Z. P. Patel; the President of the event. Shri Maniswara Raja, IFS, CCF Valsad Circle and Dr. K. Sasikumar, IFS, CF Bharuch Circle; Shri Dhananjay Sadhu, DCF Navsari and Shri Yuvrajsinh Jhala, DCF, South Valsad graced the event

Training on Advances in Mushroom Cultivation: A Sustainable Key to Food-Nutritional and Employment Security

A training on 'Advances in Mushroom Cultivation: A Sustainable Key to Food-Nutritional and



'Employment Security' was jointly organized by Department of Plant Pathology, NMCA and NAHEP-CAAST sub-project during September 21-22, 2021. During presidential address, Dr. Z. P. Patel, Hon'ble Vice Chancellor emphasized on identification, conservation and utilization of wild edible mushrooms for tribal population and opined that mushroom cultivation can be a game changer for socio-economic upliftment of rural farmers. A total of 500 participants from different parts of the country took part in the training

Training on *Gaushalanu Aayojan*



The Director of Extension Education Dr. C. K. Timbadia inaugurated training on '*Gaushalanu Aayojan*' organized by Agro ITI during October 04-08, 2021, which witnessed participation of more than 31 farmers and farm women.

Capacity Building Workshop on Natural Farming



The Directorate of Extension Education and Krishi Vigyan Kendra, NAU, Navsari jointly organized a workshop on Natural Farming for KVK Scientists of South Gujarat during September 23 to 25, 2021 in the gracious presence of Dr. C.K. Timbadia, DEE, NAU, Navsari. International folk artist Shri Sairam Dave also enlightened the workshop by performing the cultural program 'Dayra'. Total 62 participants attended the workshop

Training on Organic Farming



Hon'ble Vice Chancellor, Dr. Z. P. Patel presided over the inaugural function of one day training organized by Organic Farming Cell, Department of NRM, ASPEE College of Horticulture and Forestry, NAU, Navsari on October 04, 2021. A book entitled '*Gujaratma Sendriya Khetina Sanshodhanoni Safar*' written by Dr. A. R. Kaswala, Dr. P. K. Dubey, Dr. A. P. Italiya and Dr. K. G. Patel was also distributed to the farmers.

Programme to Discuss 'the PG Students' Research and Scope for a Scholarship'



A programme to discuss the PG students' research and scope for different scholarships was organized by the Directorate of Students' Welfare October 5, 2021, under the Chairmanship of Hon'ble Vice-

Chancellor Dr. Z. P. Patel. The programme was also graced by Director of Research & Dean PGS, Dr. S. R. Chaudhary, Dr. C. K. Timbadia, Director of Extension Education; Dr. H. V. Pandya, Registrar; Dr. R. M. Naik, Director of Students' welfare and Deans of various faculty, research advisors and PG students of the university.

Training Programme on 'Urban Horticulture'



One day training programme on 'Urban Horticulture' was jointly organized by Department of Horticulture, College of Agriculture, Bharuch and office of Deputy Director Horticulture, Bharuch on October 7, 2021 at College of Agriculture, NAU, Bharuch. Shri Dhavalsinh Chauhan, progressive farmer shared his experience with Bharuch city people.

Interactive Workshop on Horti-business Start-ups



An Interactive Workshop on Horti-Business Start-ups was organized by the Department of Floriculture and Landscape Architecture, ACHF, NAU, Navsari under Students' READY- Experiential Learning Programme on October 10, 2021 to sensitize, strengthen and motivate students towards business ventures. Dr. S. R. Chaudhary, Director of Research & Dean, PGS inaugurated the

workshop and Dr. T. R. Ahlawat, ELP Coordinator & ADR (Horti.) gave the concluding remarks and motivated the students.

Training Programme for Scientists



Dr. C. K. Timbadia, DEE inaugurated Three days training programme on "Recent Extension Approaches for Effective Transfer of Technology" organized by Extension Education Institute, AAU, Anand and Directorate of Extension Education, NAU, Navsari during October 20-22, 2021 ATIC, NAU, Navsari. Total 43 Scientists of NAU participated in said training programme.

56th Successive & 1st In-house Training on "Campus to Corporate-C₂C"



Fifty sixth Successive & First In-house "Campus to Corporate-C₂C" Training Programme was organized on October 22, 2021 at ASPEE Shakilam Biotechnology Institute (ASBI), Surat. In-house HRD Trainer of NAU-Navsari Dr. Mehul G. Thakkar, imparted training on various topics related to HRD. Total 85 Students participated in said training programme.

Cotton Crop Seminar as a Part of 75th Year Celebration under Azadi ka Amrit Mahotsav

A cotton crop seminar on the theme "Importance of Cotton crop in Agriculture sector" was jointly organized by Main Cotton Research Station, NAU, Surat and KVK, Chaswad at Chaswad, Taluka: Netrang on October 22, 2021 under 75th Azadi ka



Amrit Mahotsav for cotton farmers. Total 119 cotton farmers and 12 scientists attended and interacted during the seminar and field demonstrations. Total 78 farmers were enrolled willingly for weekly e-voice message service provided under the NFSM: CC: Cotton: IRM: PBWM project.

Workshop on 'Tamakuna Upayog thi Thata Nukshan Ange Janjagruti Shibir'



College of Agriculture, NAU, Waghai organized workshop on '*Tamakuna Upayog thi Thata Nukshan Ange Janjagruti Shibir*' on October 24, 2021. The Chief Guest & speaker was Mrs. Rasila Chaudhary. Dr. J. J. Pastagia, Principal, COA, Waghai, Dr. H. P. Dholariya, Programme Officer (NSS) and 95 volunteers participated in this workshop.

Voters Enrolment Through Android Application



Voters' enrolment programme was arranged for college students in collaboration with District

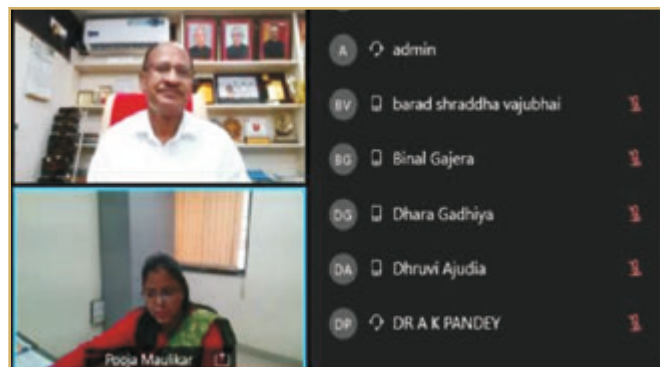
election officer at Central Examination Hall on October 25, 2021. Total 104 students from different colleges were actively participated in Voters' enrolment programme through android application.

Training Programme on 'Value Added Products From Horticultural Crops'



A training programme on 'Value Added Products From Horticultural Crops' was jointly organized by Horticulture Polytechnic, Navsari and Centre for Advanced Agricultural Science & Technology (CAAST) during October 25-30, 2021 at Navsari. The valedictory function was presided over by Hon'ble Vice Chancellor, Dr. Z. P. Patel and certificates were distributed to 20 students.

Online Training Programme on Intellectual Property Rights-Patents and Designs



Hon'ble Vice Chancellor, Dr. Z. P. Patel presided over the inaugural ceremony of online workshop on 'Intellectual Property Rights (IPR)- Patents and Designs Process' organized by the Department of Fruit Science, ACHF, NAU, Navsari in association with RGNIIPM, Nagpur on October 27, 2021 to create awareness on IPR among students and young intellectuals

Vigilance Awareness Pledge

Vigilance awareness pledge programme was organised by DSW office on October 27, 2021 under



the chairmanship of Dr. R. D. Pandya, Principal and Dean, N. M. College of Agriculture with auspicious presence of Dr. R. M. Naik DSW and Dr. K. D. Desai Principal, Horticulture Polytechnic, Navsari. Total 215 students from different colleges were actively participated and took pledge for national integration.

Exhibition on Indoor Plants



Hon'ble Vice Chancellor, Dr. Z. P. Patel; the President and Shri Rushikesh Upadhyay, SP, Navsari; the Chief Guest inaugurated an exhibition on 'Indoor Plants for Students Welfare' organized by the Department of Floriculture and Landscape Architecture, ACHF, NAU, Navsari during October 27-31, 2021. The main highlights of the exhibition were vertical gardens, terrariums, miniatures & dish gardens, kids' zone, cactus block, eco-friendly zone etc. and more than 1000 plant lovers visited the exhibition.

Training Program on 'Export of Banana From South Gujarat'



NMCA, Navsari organized a training program on 'Export of banana from South Gujarat' at College of Agriculture, Bharuch on December 10, 2021. Total 52 participants participated in this event.

National Level Awareness Webinar : *Sambhav*



A National Level Awareness Webinar: *Sambhav* was organized at College of Agriculture, NAU, Waghai on November 25, 2021 for entrepreneurship development in a virtual mode. Dr. J. J. Pastagia, Principal and Dr. H. P. Dholariya, Programme Officer (NSS) remained present and 90 volunteers participated in this webinar

57th Successive & 2nd In-house "Campus to Corporate-C₂C" Training



University Placement & Counseling Cell, DSW NAU, Navsari organized a Full Day Powerful Pre-Placement Preparatory Training on "Campus to Corporate - C₂C" for MBA (ABM) and Ph.D. (ABM) students of ASPEE Agribusiness Management Institute on November 27, 2021. Hon'ble Vice Chancellor, Dr. Z. P. Patel presided over the inaugural ceremony and Dr. R. M. Naik, DSW, was the Chief Guest of Training programme. Principal Dr. Ruchira A. Shukla and University Placement & Counseling Cell Head Dr. Mehul G. Thakkar were also present in the event.

Launching of Mobile Application 'Butting Animal Science'



Hon'ble Vice Chancellor Dr. Z. P. Patel launched a mobile application 'Butting Animal Science' under NAHEP-CAAST project on November 29, 2021 and emphasized the need to transform higher education in agriculture and allied fields using digital technology and disruptive technological innovation. The app has 4000 questions framed by experts across the country as per VCI and ICAR syllabus for different subjects of Animal Science and will be available for both Android and iOS platform. This app will be available to all users free of cost so that maximum students can get benefit from this initiative.

University Level Guest Lecture on 'Agriculture, Fertilizer & Pesticide Scenario and Career Prospects – Gujarat vis-à-vis India'



To get acquainted the UG-PG students of various institutes of NAU, Navsari regarding the present scenario and career prospects of Agriculture, Fertilizer and Pesticide Sector of Gujarat and India; three dignitaries of the world renowned MNC Zydex Industries Pvt. Ltd. namely; Shri Sunny Narang – HR Head, Shri Prasad Joshi - Asst. Manager-HR and Shri Alpesh Panchal - Operations Manager were invited

to interact with the Students on December 10, 2021. Total 120 UG-PG students along with Placement Officers of three institutes of NAU, Navsari actively participated.

Campus Placement Interviews for UG-PG Students of NAU, Navsari



University Placement & Counseling Cell, NAU, Navsari organized 5 Campus Placement Interviews of renowned companies during December 10 to 31, 2021. The companies Zydex Industries Pvt. Ltd., Sundaram Finance Ltd., Rallis (TATA) India Ltd., Samarth Agro Pvt. Ltd., and BAIF conducted campus interview. Total 431 students appeared in interview conducted by these companies and 17 students selected and received the Final Job Offer Letters.

Thalesamia Check Up Camp



Thalesamia check up and sickle cell awareness camp was organized by DSW office and State Red Cross Society, Ahmadabad on December 14, 2021 at Central Examination Hall. DSW Dr. R. M. Naik opened up the programme for students. Total 281 students from different colleges of NAU, Navsari were participated and gone through Thalesamia check up.

Training on “Peri-urban Horticulture”



A training on “Peri-urban Horticulture” was organized by COA, Bharuch in collaboration with State Horticulture Department, Bharuch on December 21, 2021. Dr. D. D. Patel, Principal, College of Agriculture, Bharuch inaugurated the training programme. Total 70 beneficiaries were participated in training followed by practical and nursery visit.

Event of 'PM KisanSamman Nidhi' Release



KVK, Surat virtually organized Hon'ble PM programme of "PM Kisan Samman Nidhi funds release" on January 01, 2022. Hon'ble Prime Minister Shri Narendra Modiji addressed to farmers about *KisanSammanNidhi* funds release. Total 39 participants including farmers, farm women and extension officers remained present.

ICAR Sponsored Short Course



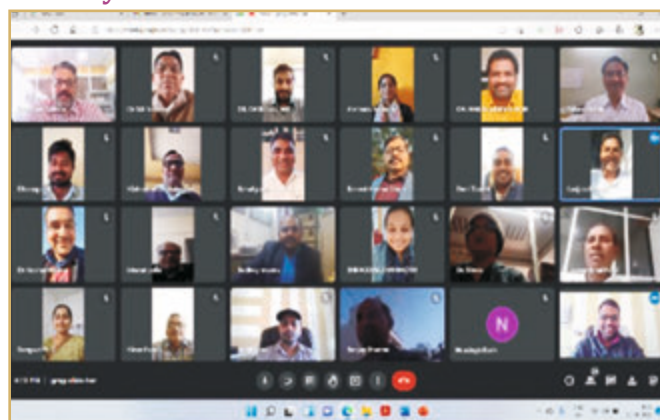
ICAR sponsored ten days short course on “Recent Trends in Sustainable Utilization, Value Addition and Conservation of Non-Timber Forest Genetic Resources (NTFGRs)”, organized virtually by College of Forestry, NAU, Navsari during January 19-28, 2022. Inaugural ceremony presided over by Hon'ble Vice Chancellor Dr. Z. P. Patel, while Dr. A. Arunachalam, Director, ICAR-CAFRI, Jhansi, Uttar Pradesh was the Chief Guest of function. Total 25 participants from different SAUs and CAUs representing ten states of India were participated in the same.

Marathon Type of Event for Dairy Farmers



Marathon type of event on "Low-Cost-High Comfort Cow Housing Competition for Dairy Animal Farmers of Gujarat" was organized by NAHEP-CAAST sub project, NAU, Navsari, in collaboration with Indian cattle.com, Mumbai, Maharashtra during January 15, 2022 to February 13, 2022. At the end 12 farmers were selected as winners.

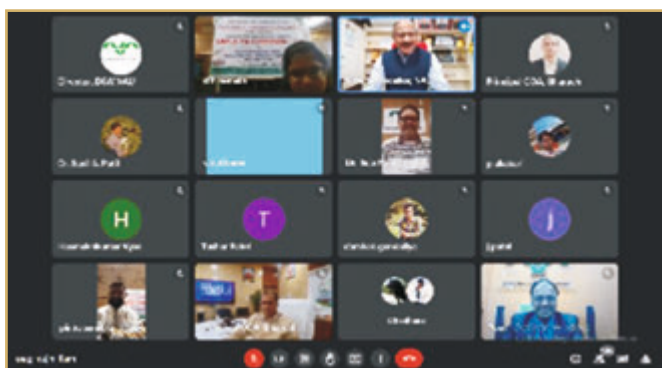
Ten Days Short Course



ICAR sponsored ten days short course on 'Pest Risk Assessment and Eco-friendly Management of Mite Pests in Agriculture' organized virtually by Dept. of Entomology, N. M. College of Agriculture, NAU, Navsari during January 20-29, 2022. Total 25 participants attended this short course program.

C2C Training Module of Placement Year-2022

University Placement & Counselling Cell organized virtually 58th Successive & 3rd In-house Pre-Placement Preparatory Training on "Campus to Corporate - C₂C" for students of Agri. Polytechnic and College of Agriculture, Bharuch on January 25, 2022. The inaugural ceremony presided over by Hon'ble Vice Chancellor, Dr. Z. P. Patel and Dr. R. M. Naik, DSW was the Chief Guest.



15th Successive Training Programme on 'Leadership & Entrepreneurship Development'



15th Successive 2-Day online training programme on "Leadership & Entrepreneurship Development" for diploma students of Horti. Polytechnics of Navsari and Paria was organized by University Placement & Counselling Cell, in collaboration with National Council for Climate Change, Sustainable Development & Public Leadership (NCCSD), Ahmedabad during February 04-05, 2022. About 142 students were participated in said training programme.

16th Successive Training Programme on 'Leadership & Entrepreneurship Development'

16th Successive 2-Day online training programme on "Leadership & Entrepreneurship Development" for diploma students of Agriculture Polytechnic of Vyara, Waghai and Bharuch was organized by University Placement & Counselling Cell, in collaboration with National Council for Climate



Change, Sustainable Development & Public Leadership (NCCSD), Ahmedabad during February 18-19, 2022. About 242 students were participated in said training programme.

Training on Beekeeping



One Day training programme on Beekeeping for farmers was organized by NAHEP-CAAST sub project, NAU, Navsari on February 18, 2022. The programme was graced with the presence of Dr. P. K. Shrivastava, Principal and Dean, ACHF, NAU, Navsari. Total 63 farmers participated for the training programme.

17th Annual Convocation



University was held on February 08, 2022 in hybrid mode. The function was presided over by the Hon'ble Governor of Gujarat State and Chancellor of the University Shri Acharya Devvratji and Hon'ble Minister of Agriculture, Animal Husbandry & Cow-Breeding, GoG, Shri. Raghavjibhai Patel as Guest of Honour. Convocation Speech was delivered by Shri Kiranbhai L. Patel, Joint Managing Director ASPEE Group of Companies. The function was graced by

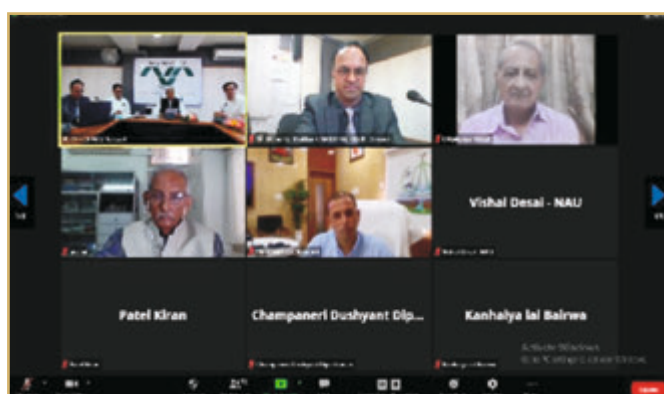
the presence of Hon'ble Vice Chancellor of NAU, Dr. Z. P. Patel, Deans, Directors, university Officers and invited guests.

Workshop on 'Agriclinics and Agribusiness Centres Scheme'



District Level Collaborative Annual Sensitization Workshop on "Agriclinics and Agribusiness Centres Scheme" organized by ASPEE Agribusiness Management Institute (AABMI), NAU, Navsari in collaboration with DDM, NABARD, Navsari on February 28, 2022. The inaugural function was presided over by Hon'ble Vice Chancellor Dr. Z. P. Patel. Dr. C.K. Timbadia, DEE, Dr. Lalit Mahatma, ADR, NAU, Mr. B K Samant Ray, AGM(DD), NABARD, Navsari also graced the occasion. Various stakeholders such as Bankers, Agripreneurs, and representatives from BIAF, LokSewa trust, RSETI, ATMA and students attended the workshop.

Soft Skills Development Programme



University Placement & Counselling Cell, in association with Indian Society for Training & Development (ISTD), New Delhi (Vadodara Chapter); organized the 1st Ever One week virtual International Soft Skills Development Programme (ISSDP) on "Transforming Agricultural Youth into 21st Century Professional" for 410 PG & Ph. D.

Students of NAU, Navsari during February 16-22, 2022. The inaugural function presided over by Hon'ble Vice Chancellor Dr. Z. P. Patel and Regional Vice President (RVP) of ISTD Shri Dilip S. Desai was Guest of Honour.

Awareness on 'Drug and Drug Rehabilitation'



'Rehabilitation' was organized by DSW, NAU, Navsari on February 24, 2022 in collaboration with District Drug Prohibition and Excise Department. All the staff members and NSS volunteer- students of Horticulture Polytechnic, NAU, Navsari were participated in said programme and taken pledge on "Nasha Bandhi". Dr. K.D. Desai, Principal, Horticulture Polytechnic and Hon'ble Director Shri Sunil Kumar from *Nashabandhi* Dept. delivered speech to students during the programme.

National Voter Awareness Quiz Contest



NSS volunteers of College of Agricultural Engineering and Technology and Polytechnic Agricultural Engineering, Dediapada participated in online 'National Voter Awareness Quiz Contest' organized by SVEEP (Systematic Voters' Education and Electoral Participation) programme of Election Commission of India on March 02, 2022. Total 63 Students of both the colleges participated in this contest and received e-certificates.

National Level Meet



"Agripreneurship: Present Opportunities and Future Prospects" was organized by NAHEP-CAAST sub project, NAU, Navsariduring March 02-04, 2022. The inaugural function was graced by the presence of Hon'ble Vice-Chancellor Dr. Z. P. Patel, as president of function; Dr. Abdul Samad, Dean & DI (Retd.) MAFSU, Maharashtra as Chief Guest; Dr. ShahajiPhand, Assistant Director, MANAGE, Hyderabad as Special Guest; Dr. T. R. Ahlawat-DR and Dr. C. G. Intwala, Acting Dean, ACHF as Guest of Honours. In all 366 participants benefited from this meet which included students, famers & faculties.

NSS Special Camp



special camp during March 07-13, 2022 at Nihat VillageTa. Dediapada, Dist. Narmada. Total 47 volunteers of both the colleges participated in this camp.

Thalassemia Awareness cum Screening Test & Blood Donation Camp



CAET and PAE, Dediapada in coordination with Indian Red Cross Society, Ahmedabad on March 03, 2022. Total 109 NSS volunteers participated in this camp and 16 volunteers donated blood during this camp.

National Level Hackathon on 'Smart and Remunerative Farming'



by NAHEP-CAAST sub project, NAU, Navsarion March 05, 2022. The programme was inaugurated and presided over by Hon'ble Vice Chancellor Dr. Z. P. Patel in the gracious presence of Dr. Sanjay K. Dwivedi, Director of Personnel, DRDO, New Delhi as Chief Guest. Total 76 teams with 182 students and faculty members from different SAUs /ICAR institutes participated in the Hackathon.

Launch of web portal 'SARAL'



Hon'ble Vice-Chancellor, Dr. Z. P. Patel, during Inaugural session of National level hackathon on "Smart and Remunerative Farming" on March 05, 2022.This unique system will lower the work load for other party.From registration till final result preparation all activities done through this portal on automated basis.

Launch of AI Wood Identification Model



artificial intelligence (AI) model was released by Hon'ble Vice Chancellor Dr. Z.P. Patel, in the Hackathon event on "Smart and Remunerative Farming" held on March 05, 2022. This wood identification AI model developed for three selected Indian timber species viz., Teak (*Tectonagrandis* L. f.), Malabar neem (*Meliadubia* Cav.) and Ardu (*Ailanthus excelsa* Roxb.) using Xylorix (<https://www.xylorix.com>) platform.

Training on Flower Arrangement



Arrangement under Student Ready Program was organized by Department of Floriculture, ACHF, NAU, Navsari on March 10, 2022. The inaugural function was presided over by Hon'ble Vice Chancellor Dr. Z. P. Patel. DR and Dean PG Dr. T. R. Ahlawat, was Chief Guest of the function. Dr. P. K. Shrivastava, Dean, ACHF welcomed the dignitaries and Dr. Alka Singh, as Training Director gave brief information about said training program.

Inter-collegiate Literary Competition



Literary Competition-2022 on the March 14, 2022 which included Debate, Elocution and Extempore competition.

Flower Arrangement Show



Development under Student Ready program was organized by Department of Floriculture, ACHF, NAU, Navsari on March 14, 2022. Dr. (Mrs) Harshaben Z. Patel, Principal, JP Arts and Commerce College, Killapardi and Dr. Lalit Mahatma, ADR, NAU also graced the occasion.

59th Successive & 4th In-house C2C Training

The University Placement & Counselling Cell, organized Pre-Placement Preparatory Training on "Campus to Corporate - C₂C" for Diploma Agriculture and B. Sc.-Hons. (Agriculture) students of Agri. Polytechnic and College of Agriculture, Waghaion March 23, 2022. About 102 students participated in said training.

Training on 'Vegetable Grafting'



organized by Department of Vegetable Science, ACHF, NAU, Navsari during February 23-29, 2022. Hon'ble Vice Chancellor Dr. Z. P. Patel presided over

the inaugural ceremony of training programme. Training helped in developing the entrepreneurial skills among horticulture students regarding concepts and applications of vegetable grafting.

Intercollegiate cultural competition



organized by ASPEE Shakilam Biotechnology Institute, NAU, Surat during March 25-26, 2022. Six different colleges participated in various events like Drama, Folk dance, Mime and Monoacting.

Workshop on 'Preparation of Contemporary Wooden Decorates'



“Preparation of contemporary Wooden Decorates” was organized by NAHEP-CAAST sub project, NAU, Navsari on March 24, 2022. The programme was inaugurated and presided over by Principal CoA, Waghai Dr. J. J. Pastagia. About 25 artisans from

Ambapada village participated in workshop.

Seminar on Awareness of Various Competitive Examinations



examinations like GPSC, Agricultural Officer, Bank, Railway etc was organized by Horticulture Polytechnic, ACHF, Navsari in collaboration with District Employment Exchange Office, Navsari on March 30, 2022.

Nature & Wildlife Photography



Exhibition of One Year Certificate Course in Nature & Wildlife Photography was organized on February 19, 2022. Inaugural Ceremony presided over by Hon'ble Vice Chancellor Dr. Z. P. Patel. The Exhibition was inaugurated by Chief Guest Shri R. L. Meena, Principal Chief Conservator of Forests (Rtd.), Gandhinagar and Dr. B. K. Dhaduk, Ex Dean, AABMI. Total 471 enthusiastic aestheticians visited the exhibition in three days.

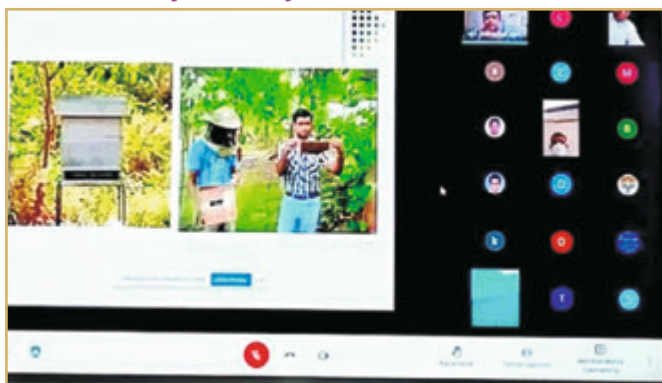
CELEBRATIONS

World Health Day

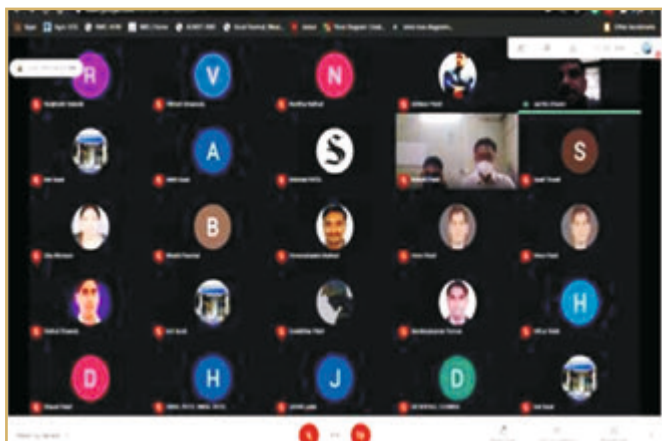


KVK, Surat celebrated World Health Day on April 07, 2021 at village Chudel, Ta. Mandvi, District Surat. Mrs. G. J. Bhimani, Scientist, KVK briefed about preparation of low cost and balanced diet from locally available food stuff to 23 farm women under a theme 'Building a Fairer, Healthier World'.

World Honey Bee Day

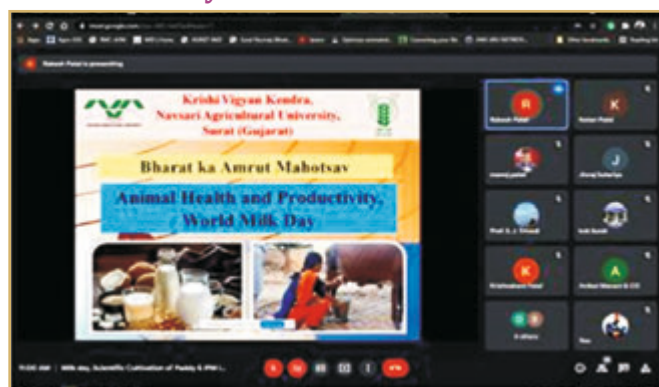


Dr. C. K. Timbadia, DEE graced the occasion of 'World Honey Bee Day' celebrated by KVK, Navsari by arranging a webinar on May 20, 2021 Dr. Abhishek Mehta, CoF, Navsari briefed about the importance of seasonal bee management, diversification in beekeeping and role of bees in crop pollination, etc.



KVK, Surat celebrated World Honey Bee Day on May 20, 2021 to increase awareness among farmers regarding the role of bee in Agriculture. Dr. J. H. Rathod, Senior Scientist & Head, KVK, Surat advised famers to integrate apiculture with agriculture for higher productivity and returns.

World Milk Day



KVK, Surat celebrated Animal Health, Productivity and World Milk Day on June 01, 2021. Mr. Manojbhai Patel, Project Manager, *Kantha Vistar Satatyapurna Vikas Samiti* (KVSVS), Hazira, Surat and Mr. Jivrajbhai Sutaria motivated 33 farmers and farm women.



Under the chairmanship of Hon'ble Vice Chancellor, Dr. Z. P. Patel, KVK, Dediapada celebrated World Milk Day in association with Animal Husbandry Department, DP & ICDP, Narmada; *Krushvi Vikas Va Gramin Prashikshan Sanstha* on June 01, 2021. Hon'ble Vice Chancellor emphasized on goat farming and its milk benefit in human health and suggested to start it as an enterprise for livelihood improvement.

World No Tobacco Day

The students of CAET/PAE Dediapada while celebrating 'World No Tobacco Day' on May 31, 2021 virtually, took a pledge not to consume any



tobacco product and also to make aware others about its harmful effects.

International Yoga Day



The International Yoga Day was celebrated through online and offline mode by different units and sub-units of the University on June 21, 2021. Hon'ble Vice-Chancellor, Dr. Z. P. Patel along with Dr. R. M. Naik, DSW; Dr. H. V. Pandya, Registrar; Mr. H. T. Bhalsod, Executive Engineer attended yoga session conducted by Yoga trainer and Nodal Officer, Dr. Diwakar Singh. On this occasion, Hon'ble Vice-Chancellor highlighted the importance of yoga in day-to-day life and encouraged all to practice yoga regularly to remain fit and improve concentration as well as to achieve a better life physically, mentally and spiritually. Total 942 students, staff and their family members participated in the event.

World Environment Day

World Environment Day was celebrated on June 05, 2021 by KVK Navsari and NAHEP-CAAST project in the esteemed presence of Hon'ble Vice Chancellor, Dr. Z. P. Patel; DDO Navsari, Ms. Prashasti Pareek (IAS); DR & Dean PGS, Dr. S. R. Chaudhary; DEE, Dr. C. K. Timbadia, ADR & PI, CAAST, Dr. Timur



Ahlawat; President of *Tapasya Nari Seva Samiti Charitable Trust*, Dr. Rishida Thakur; District president of *Nehru Yuva Kendra* Ms. Varshadogha and other University staff.

National Statistics Day



Under the chairmanship of Hon'ble Vice Chancellor, Dr. Z. P. Patel, the Department of Agricultural Statistics, NMCA, Navsari celebrated 15th National Statistics Day on June 29, 2021 in association with National Sample Survey Organization (NSSO) and Gujarat Statistical Association (GSA), Gujarat. The department also arranged one day national webinar on 'Statistics for Food Security and Promoting Sustainable Agriculture' on this occasion.

Azadi Ka Amrit Mahotsav

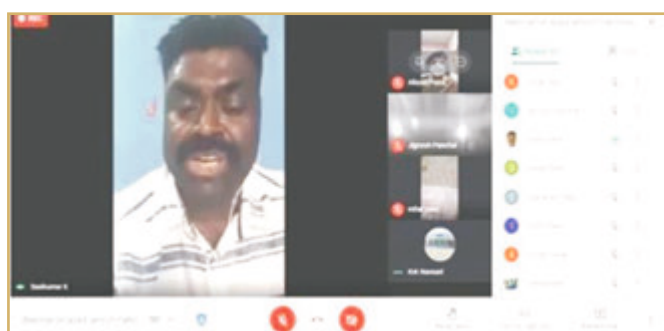
Azadi Ka Amrit Mahotsav, an initiative of the Government of India is dedicated to the people of India who have not only been instrumental in bringing India so far in its evolutionary journey but also hold within them the power and potential to enable Prime Minister's vision of activating India 2.0 fuelled by the spirit of *Atmanirbhar Bharat*. To commemorate this *Mahotsav*, the University organized farmers' oriented activities, awareness programs, national days, etc.



NSS Team of NAU, Navsari welcomed Dandi Yatri from various parts of the country on April 04, 2021 as a part celebrating 'Azadi Ka Amrit Mahotsav' and participated in Road show.



NAU, Navsari in association with *Banaskantha General Works Seva Sangh* organized 'Wall Painting Workshop' on April 04, 2021 to celebrate *Azadi Ka Amrit Mahotsav* and *Padyatra* from *Sabarmati Ashram*. Total 25 participants made paintings on the boundary wall of the University on the themes related to patriotism, agricultural and scientific thoughts and other innovative ideas.



Department of Social Plantation and KVK, Navsari jointly organized a webinar 'Social Forestry' on May 15, 2021 to celebrate *Azadi Ka Amrit Mahotsav*. Dr. Sashikumar, Dr. Dhananjay Sadhu, Dr. Jayesh Pathak and Dr. H. B. Kharecha delivered expert talks on various aspects of bamboo farming including financial assistance schemes benefitting 80 farmers during the sessions.

75th Independence Day



On the occasion of 75th Independence Day, Hon'ble Vice Chancellor, Dr. Z. P. Patel hoisted the National Flag at University Bhavan and recalled the sacrifice of freedom fighters and lauded the leadership of Mahatma Gandhi and Sardar Vallabhbhai Patel during freedom struggle and urged scientific fraternity to focus on achieving higher productivity with quality. The University Officers, NCC cadets, NSS volunteers, students, staff and retired Professors participated in the celebration. The NCC cadets were honoured with ranks by Hon'ble Vice Chancellor

National Fish Farmers Day



The University celebrated 'National Fish Farmers Day' on July 10, 2021 to commemorate Prof. (Dr.) Hiralal Chaudhury and his colleague Dr. Alikunhi for their contribution in induced breeding of major carps.

Swatchhata Pakhawada



Swachhta Pakhwada was celebrated by various units of Navsari Agricultural University, Navsari in coordination with the Directorate of Students Welfare and NSS volunteers during August 01 to 15, 2021. A cleanliness drive near University Bhavan was initiated by Dr. Z. P. Patel, Hon'ble Vice Chancellor with active participation of University officers, faculties, staff and NSS volunteers.

ICAR Foundation Day



The constituent colleges and *Krishi Vigyan Kendras* of the University celebrated 93rd ICAR Foundation Day on July 16, 2021.

National Education Policy



To celebrate completion of one year of National Education Policy 2020, a webinar Series was organized jointly by ASPEE College of Horticulture & Forestry, ASPEE Agri Business Management Institute and College of Agriculture Engineering & Technology during July 30 to August 10, 2021. Dr. Z. P. Patel, Hon'ble Vice Chancellor appreciated this effort of the colleges for running various vocational training courses for *Atmanirbharta*/self-employment/entrepreneurship and urged to organize a training program on bamboo products for the tribal youth of South Gujarat. Dr. P. K. Shrivastava, Principal & Dean, ACHF; Dr. Ruchira Shukla, Principal, AABMI and S. H. Sengar, Principal, CAET, Dediapada coordinated the event which

helped in sensitizing the faculty members to get prepared for the changes in education scenario with the implementation of National Education Policy 2020.

Parthenium Awareness Week



Krishi Vigyan Kendras and other Units of the University celebrated 16th Parthenium Awareness Week during August 16 to 22, 2021 to sensitize people about this obnoxious weed and its toxic effects on human beings as well as on pet animals and the environment. Hon'ble Vice Chancellor, Dr. Z. P. Patel released a booklet on Management of Parthenium on the occasion of celebration of Parthenium Awareness Week

Van Mahotsav 2021



Hon'ble Vice Chancellor initiated Tree Plantation Drive from the premises of Primary School, Kalthan on August 13, 2021

Kharif Pak Parisamwad



Shri Dilipbhai Sanghani, Chairman, GUJCOMASOL & Ex. Agri. Minister, GoG inaugurated *Kharif Pak Parisamwad* jointly organized by KRIBHCO and NAU, Navsari on August 12, 2021 under the chairmanship of Hon'ble Vice Chancellor, Dr. Z. P. Patel. Shri Dileepbhai emphasized on quality production and value addition in different crops for higher returns. Hon'ble Vice Chancellor accentuated on the development of products like Sapota jaggari, waffer using jack fruit and pineapple. More than 200 participants including cooperative leaders, farmers and SHG members/farm women participated in the program

National Level Campaign on Food and Nutrition



KVK, NAU, Surat and ATMA, Bardoli organized seminar on Food and Nutrition for farmers on August 26, 2021 Dr. J. H. Rathod, Senior Scientist & Head, KVK, Surat emphasized on the benefits of food and nutrition in human life. The participants were briefed about the importance of nutri-cereals, kitchen garden and value addition in agriculture crops

Training on Poshan Ahar



A training Program on '*Poshan Ahar*-A Nutritionally Balanced Diet' was organized by HMRS, Waghai at Villages Rambhas and Vanarchond on August 26, 2021. Total 99 farmers/farm women participated in the program

Fit India Freedom Run 2.0



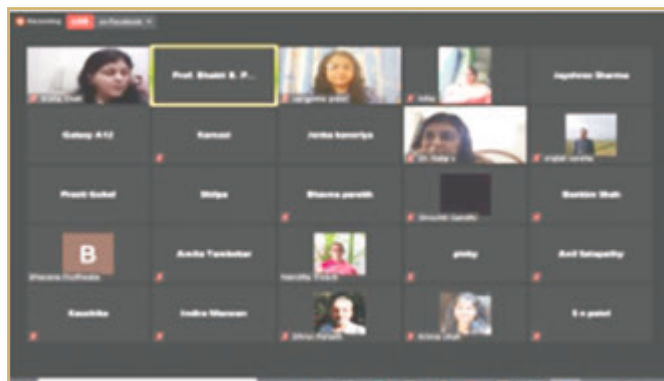
Dr. S. R. Chaudhary, DR & Dean PGS and Dr. H. V. Pandya, Registrar flagged off the Fit India Freedom Run 2.0 on August 27, 2021. Dr. R. M. Naik, DSW; Dr. R. D. Pandya, Principal & Dean NMCA; Dr. P. K. Shrivastava, Principal & Dean, ACHF; Dr. Ruchira Shukla, Principal AABMI; Research Scientists, Professors, NSS officers and volunteers of University participated in Freedom Run

125th Birth Anniversary of Shri Zaverchandra Meghani



The Department of Sports, Youth & Cultural Activities, Govt. of Gujarat; NAU, Navsari and *Jilla Vahivati Tantra*, Navsari jointly organized *Kasumbino Rang Utsav*, a fuction to mark 125th birth anniversary of the legendary national poet Shri Jhaverchand Meghani on August 28, 2021 in the esteemed presence of Shri Ramanlal Patkar, Minister of State-Forest & Tribal Development; Dr. Z. P. Patel, Hon'ble Vice Chancellor; Ms. Arpit Sagar (IAS), DDO-Navsari; Shri Nareshbhai Patel, MLA-Gandevi; Dr. S. R. Chaudhary, DR & Dean PGS and other office bearers of state government. To commemorate the occasion, a competition on *Meghani Geet* was also arranged among students of all the constituent colleges of the University.

Online Workshop on Terrace Farming



KVK, Surat, NetProFaN, Surat, IAPEN, Surat and Indian Dietetic Association jointly organized a workshop on 'Poshan Vatika-Terrace Farming' on September 06, 2021

Webinar on Rejuvenation of Old Mango Orchards



Hon'ble Vice Chancellor inaugurated a webinar on 'Rejuvenation of old mango orchards' organized by AES, Paria on September 12, 2021 and encouraged farmers to adopt rejuvenation technology to increase the yield of senile orchards. Dr. S. J. Patil, Research Scientist explained about systematic approach of mango rejuvenation to 78 farmers during the webinar

Vanijya Utsav



The University in collaboration with APEDA and Department of Horticulture organized 'Vanijya Utsav- Capacity Building Program' for FPOs/Cooperative Societies/Farmers and New Entrepreneurs for Exports on September 26, 2021. The program was inaugurated by Dr. C.K. Timbadia, DEE, NAU, Navsari in the gracious presence of Shri Man Prakash Vijay, AGM APEDA; Shri D.K. Padaliya, DDH, Navsari; Shri N. N. Patel, DDH, Tapi; Shri Jacob Augustine, Assistant Director, DGFT; Shri Chandrashekhar S. Naik, Shri Mrinal Sharma, Assistant Director, NPPO, Kandla and Shri Gaurav Kumar, Assistant Director, NABARD. Total 488 farmers and farm women participated in the program

World Coconut Day



ASPEE College of Horticulture & Forestry and KVK, Navsari jointly organized World Coconut Day on September 02, 2021 under the chairmanship of Hon'ble Vice Chancellor, Dr. Z. P. Patel and in the gracious presence of Dr. Sunil Chaudhary, DR & Dean PGS; Dr. C. K. Timbadia, DEE; Dr. P. K. Shrivastava, Principal & Dean, ACHF. Hon'ble Vice Chancellor emphasized on coconut based enterprise for socio-economic upliftment of women. More than 58 farm women participated in the event

150th Birth Anniversary of Maharshi Sri Aurobindo Gosh



Sri Aurobindo Memorial Trust, Vadodara and Sri Aurobindo Sadhna Kendra, Vallabh Vidyanagar organized One Day *Shibir* on September 05, 2021 at Om Puri Ashram near Kheda to celebrate 150th Birth Anniversary of Maharshi Sri Aurobindo Gosh. Dr. S. M. Gohil, NMCA coordinated the event and the students of the University experienced and explored inner self in tranquil atmosphere of Om Puri Ashram

Freeze Drying Technology in Mango and Other Horticultural Crops



In benign presence of Hon'ble Vice Chancellor, Dr. Z. P. Patel and Dr. C. K. Timbadia, DEE; KVK, Navsari organized training on 'Freeze Drying Technology in Mango and other Horticultural Crops' under ARYA project on September 14, 2021

Poshan Vatika Mahaabhiyan and Plantation Day



Hon'ble Vice Chancellor, Dr. Z. P. Patel and Dr. N. L. Patel released the publications on *Nagli-Vari* 2021 calender, book and folders of hill millet crops on the occasion of celebration of 'Poshan Vatika Mahaabhiyan and Plantation Day'

Activities under NSS

NSS volunteers of College of Agricultural Engineering and Technology and Polytechnic Agricultural Engineering celebrated 'Angdan Awareness Program' on September 17, 2021



NSS volunteers of National Service Scheme, College of Agricultural Engineering and Technology and Polytechnic Agricultural Engineering celebrated 'Poshan Vatika Awareness Program' on September 17, 2021



Awareness Programs on Organ, Blood Donation and Nutrition



The Directorate of students' Welfare in collaboration with NSS organized 'Blood Donation Awareness Program' on September 18, 2021 in the esteemed presence of Dr. Z. P. Patel, Hon'ble Vice Chancellor. Hon'ble Vice Chancellor highlighted the importance of blood donation, shared his memories with blood donation camps and encouraged everyone for blood donation. More than 250 students and staff took pledge to donate blood for the welfare of society.

Farmers-Scientists Interaction



Farmer-Scientists Interaction was arranged by KVK, Navsari on 'Climate Resilient Variety, Technology and Practice' on September 28, 2021. During presidential address, Dr. C. K. Timbadia, DEE emphasized on the use of nature-friendly farming technology for maintaining proper ecological balance. Total 100 persons including farmers, farm women and RAWE students participated in the program

'Swachhta Plog Run' Programme



Volunteers of National Service Scheme (NSS), College of Agricultural Engineering and Technology and Polytechnic Agricultural Engineering, Dediapada have celebrated 152nd Birth Anniversary of Mahatma Gandhiji 'The Father of the Nation' on October 2, 2021. On this occasion NSS volunteers organized a program on "Swachhta Plog Run Programme" under NSS regular activities. Dr. S. H. Sengar, Principal & Dean, CAET Dediapada and Dr. Arun Lakkad, Principal, PAE, Dediapada along with all Students and Staff members have celebrated the day at college premises with full enthusiasm.

Mahatma Gandhi Jayanti

NSS volunteers of different colleges of Navsari Agricultural University celebrated different programmes viz. rangoli competition, swatchhata



abhiyan, swatchhata pledge etc. on birth anniversary of Father of Nation Mahatma Gandhiji on October 2, 2021.

'Single use Plastic Pladge' Programme



NSS volunteers of College of Agricultural Engineering and Technology and Polytechnic Agricultural Engineering, Dediapada have celebrated 'Single use Plastic Pladge' awareness programme on the occasion of 75th Azadika Amruit mohotsav on October 7, 2021. In the presence of Dr. S. H. Sengar, Principal & Dean, CAET and Dr. Arun Lakkad, Principal, PAE, Dediapada along with staff members the students has celebrated the day with various activities like Debate, Quiz and Rangoli competition.

World Cotton Day-2021



As a part of Celebration of 'World Cotton Day-2021' an awareness programme was organized at Main Cotton Research Station, Navsari Agricultural University, Surat on October 7, 2021. Hon'ble Vice Chancellor Dr. Z. P. Patel, NAU virtually inaugurated the programme as a part of celebration. A rally of scientists and employees of MCRS, Surat, teachers and higher secondary students of Shri L. P. Savani International School, Surat was also organized.

Voter Awareness Programme



NSS unit of College of Agricultural Engineering and Technology and Polytechnic Agricultural Engineering, Dediapada have jointly organized 'Voter Awareness Programme' on the October 8, 2021 in the presence of Dr. S. H. Sengar, Principal & Dean, CAET and Dr. Arun Lakkad, Principal, PAE, Dediapada along with all staff members and students.

Swachata Campaign And Vigilance Awareness



Centre of Excellence on Post Harvest Technology, ACHF, NAU, Navsari celebrated *Swachhata Abhiyan* on October 2, 2021.

Field Day of Soybean

Field day celebration of Soybean Variety-NRC-37, Integrated Nutrient Management and Integrated Pest & Disease Management were organized at



village Parvat (Mandvi) and Mandan (Mangrol) on October 12, 2021 and October 16, 2021, respectively. 35 and 34 farmers from villages Parvat and Mandan were participated in the event, respectively.

Mahila Kisan Divas



"Mahila Kisan Divas" under the occasion of "Azadi ka Amrut Mahotsav" was organized in *Krishi Vigyan Kendras* of the university on October 15, 2021. Total 180+ farm women participated in said programme.

World Food Day



An Online Quiz competition was organized on "Importance of Food Quality and Safety" by the Food Quality Testing Laboratory, NMCA, NAU,

Navsari to celebrate the “World Food Day” under NAHEP-CAAST sub-project at NAU, Navsari on October 16, 2021. Total 237 participants participated in quiz and awarded with e-certificates.

Finger Millet Day Celebration



KVK, Waghai organized 'Finger Millet Day' at Dokpatal on October 25, 2021. Total 65 farmers were participated in this programme.

Technology Week Celebration-2021



Different Krishi Vigyan Kendras of university celebrated 'Technology Week' during October 25-30, 2021 during which different events organized by KVKs on various aspects for the farmers.

National Unity Day



National Unity Day was celebrated on birth anniversary of Shri Sardar Vallabhabhai Patel on October 31, 2021 at Central Examination Hall. Total 230 students were participated from different colleges in the programme. National Integration Pledge was taken by the participated students. The Day also celebrated in College of Agricultural Engineering and Technology and Polytechnic Agricultural Engineering, Dediapada and Polytechnic in Horticulture, ACHF, NAU, Paria

On Reach Tool Center



'On Reach Tool Center' was celebrated at KVK, Dediapada on November 21, 2021. The event was inaugurated by Hon'ble Vice-Chancellor Dr. Z. P. Patel as the president and Dr. P. D. Palsana, District Development Officer as the Chief Guest of programme. Self Help Groups' farm women from 7 Villages were present in this programme.

National Milk Day



KVK, Dediapada celebrated 'National Milk Day' on November 26, 2021 in memory of the father of the white revolution, Dr. Verghese Kurien. All participants attended virtually the programme 'Sambhav'a National Level Awareness Programme (NLAP) on Entrepreneurship.

Agricultural Educational Day



On the birth anniversary of first President of Independent India and Union Minister of Agriculture, Bharat Ratna, Dr. Rajendra Prasad, “Agricultural Educational Day” was celebrated in CAET and KVKs of university on December 3, 2021. Lectures providing guidance on Scientific Farming and explaining importance of agriculture given to the participated students.

World Soil Day



'World Soil Day' celebration with theme “Halt Soil Salinization, Boost Soil Productivity” to create awareness about Soil health was done in KVKs and colleges of NAU, Navsari on December 5, 2021. More than 756 farmers and farm women participated in said programme at various centers.

Mahila Goshthi on 'Women in Agriculture'



KVK, Vyara organized *Mahila Goshthi* on 'Women in Agriculture' on dated December 4, 2021. Total 36 tribal farm women actively participated in training.

Constitution Day



CAET and Polytechnic Agricultural Engineering, Dediapada jointly organized 'Constitution Day' on December 18, 2021 in the presence of Dr. S. H. Sengar, Principal & Dean, CAET and Dr. A. P. Lakkad, Principal, PAE, Dediapada along with all students and staff members.

Swachhta Awareness Rally



Swachhta awareness rally was organized by KVK, Dediapada on December 22, 2021. All the scientists, 46 farm women and 17 students participated in the rally.

National Farmers Day (Kishan Diwas)



'National Farmers Day' with theme “Uttam Kheti- Unnat Kisan” under Azadi ka Amrit Mahotsav

celebrated by KVKs of university on December 23, 2021. More than 193 farmers participated in the event.

Seminar on Integrated Pest and Disease Management of Rabi Crops



A seminar on 'Integrated pest and disease management of Rabi Crops' was organized by KVK, Dediapada under *Azadi ka Amrit Mahostav* celebration with the theme- *Uttam Kheti -Unnat Kisan* on December 24, 2021. Total 58 participants were present in this program. Field visit to various demonstration unit were also done with farmers at the end.

Seminar on Horticulture



A seminar on Horticulture was jointly organized by KVK and TWTC, Dediapada under *Azadi Ka Amrit Mahostav* on December 28, 2021. Dr.P.D. Verma, Senior Scientist cum Head briefed about several technologies for sustainable horticulture. Total 274 farmers participated in the programme.

Swachhata Pakhwada

KVK, Vyara organized '*Swachchhata Pakhwada*' during December 16-31, 2021 to create awareness about importance of cleanliness and hygiene perspective in Human health among tribal farmers in Tapi district. Different Training programmes and *Mahila Shibir* organized under *Swachchhata*



Abhiyan and provided guidance to farmers about waste management in agriculture and prepared organic fertilizers from agricultural waste.

Essay Writing Competition on Theme 'Good Governance'



NSS volunteers of College of Agricultural Engineering and Technology and Polytechnic Agricultural Engineering, Dediapada have organized essay writing competition on theme of 'Good Governance' on the December 31, 2021 in the presence of Dr. S. H. Sengar, Principal & Dean, CAET and Dr. Arun Lakkad, Principal, PAE, Dediapada along with staff members and students.

Celebration of 125th Birth Anniversary of Shri Zaverchand Meghani



University level competition of Zaverchand Meghani's song was held on 125th birth anniversary of Shri Zaverchand Meghani at KCG, Ahmedabad on October 1, 2021 and 03 students represented our university in this competition.

Youth Day



On the occasion of birth anniversary of Shri Swami Vivekanandjion January 12, 2022, NSS volunteers of CAET and Polytechnic Agricultural Engineering, Dediapada celebrated 'Youth Day'. Different activities like Kho-kho, Kabaddi, Essay writing competition, elocution, poster making competition etc. were organized.

Virtual Surya Namaskar Programme

Virtual Surya Namaskar Programme was organized by ASPEE Shakilam Biotechnology Institute, NAU, Surat on January 14, 2022. Total 42 students were participated in the program.

National Voters' Day



To create awareness regarding importance of voting among the young voters National Voters' Day was celebrated in different colleges of NAU, Navsari on January 25, 2022. On this occasion awareness was created by organizing lectures and taking the pledge.



73rd Republic Day

73rd Republic Day was celebrated at University Ground, Sports Complex, NAU, Navsari on January 26, 2022. Hon'ble Vice Chancellor Dr. Z. P. Patel unfurled the national flag and addressed the gathering present on the occasion.

Martyrs Day



In the memory of the 'Father of Nation' Mahatma Gandhiji Martyr's Day organized at CAET and PAE, Dediapada on January 30, 2022. On this occasion tribute given by two minutes *Maun-* silence and flowers to the portrait of Mahatma Gandhiji.

World Pulses Day



World Pulses Day under *Azadi Ka Amrit Mahotsav* with theme of "Atmanirbhar Bharat- Harnessing potential pulses for import substitution" was celebrated at different centres of NAU, Navsari on February 10, 2022.

Celebration of Technology Week



AES, NAU, Paria, celebrated the "Technology Week" during March 07-11, 2022 in collaboration with ATMA Project, Valsad. Total 254 farmers from different talukas of Valsad district were participated in the event.

World Meteorological Day



KVK, Waghai celebrated "World Meteorological Day" on March 23, 2022. Total 61 farmers were participated in said programme.

Poshan Pakhavada



KVK, Waghai celebrated 'Poshanpakhavada' at FTC-Ahwa and Waghai during March 21, 2022 to April 04, 2022. Total 30 farmers and 25 children's participated in the event.

World Water Day



To aware the farmers about the importance and efficient utilization of water in agriculture, celebration of "World Water Day" was organized under the theme of "Per Drop More Crop" on the occasion of "Azadi ka Amrut Mahotsav" by KVK, Navsari at Village Satimal on March 22, 2022. Total 60 farmers participated in the celebration.

International Women's Day Celebration



International Women's Day was celebrated at different centers of NAU, Navsari on March 08, 2022. To mark the celebration of International Women's Day, "Cancer Awareness Programme" was organised by DSW, NAU, Navsari in collaboration with Nirali Cancer Hospital, Navsari at Central Examination Hall. The function was presided over by Hon'ble Vice Chancellor Dr. Z. P. Patel.

UNIVERSITY AWARDS and MOUs

MoU on NOVEL Organic Liquid Nutrients



NAU, Navsari inked four MoUs on technology transfer, commercial scale production and marketing of NOVEL Organic Liquid Nutrients with Shree Khedut Sahkari Ginning & Processing Society Ltd. Bardoli on June 08, 2021, Gencrest Bio-Products Pvt. Ltd., Mumbai on June 09, 2021, Bapa Sitaram Sakhi Mandal, Bhavnagar: A Piddilite Industries Ltd. and GNX Agro Biochem Pvt. Ltd., Valsad on June 11, 2021.

MoU between NAU, Navsari and Digital Agri-Media, Gandhinagar

MoU between NAU, Navsari and Digital Agri-Media, Gandhinagar was signed on June 02, 2021 for dissemination of technology of agriculture and allied fields among farmers through AgriMedia TV App- *A Delivery Mechanism for Information, Services & Technology and Marketing Platform.*



Dr. R. M. Naik, DSW, NAU, Navsari received recognition from Regional Director NSS, Gujarat at Gandhinagar for contribution of NAU volunteers to the society during COVID-19 pandemic on September 08, 2021



Krishi Vigyan Kendra, Surat received Best Presentation award during Annual Zonal Workshop of KVKs held during August 04-06, 2021



ASPEE College of Horticulture & Forestry and ASPEE Agribusiness Management Institute, the constituent colleges of University were conferred the nationally acclaimed award for Academic Excellence by Asia's renowned magazine 'Education World' in an award function held at NAU, Navsari on September 6, 2021. In the benign presence of Dr. Z. P. Patel, Hon'ble Vice Chancellor & the Chairman of function and Sh. Kiranbhai Patel, JMD, ASPEE Group of Companies, Mumbai and the Chief Guest; Mr. Bhavin Shah, CEO, Education World presented the most prestigious India Higher Education Rankings Award 2021-22 to ASPEE College of Horticulture & Forestry for securing 5th rank at national level for Under Graduate Education and to ASPEE Agribusiness Management Institute for securing 9th rank nationally and 1st rank in the Gujarat state



Navsari Agricultural University, Navsari got national level recognition among 52 FFP centres in collaborative assessment conducted by ICAR-National Academy of Agricultural Research Management, Hyderabad and Division of Extension Education, ICAR, New Delhi for 'Key Outcomes of Farmer FIRST Program (FFP) 2016-2020'

MoU with FRS, Gandevi



National Agri-Food Biotechnology Institute (NABI), Mohali made an Agreement with Fruit Research Station, Gandevi on August 03, 2021 for 'Banana Biofortification and Disease Resistance Project' with five collaborating Institutes namely NABI, NRCB, Trichy; BARC, Mumbai; IIHR, Bangaluru and TNAU, Coimbatore with support from Biotechnology Industry Research Assistance Council (BIRAC), a Public Sector Enterprise of Department of Biotechnology, Government of India. Under this project, NAU will conduct Event Selection Trials of banana events at FRS, NAU, Gandevi for a period of three years (2021-22 to 2023-24)

MoU for the Commercial Production and Selling of NOVEL Organic Liquid Fertilizer

NAU signed three MoU (MoU No. 27th, 28th & 29th) for the commercial production and selling of NOVEL



organic liquid fertilizer during October-2021
27th MoU- KTD Biotechnologies Pvt. Ltd.
28th MoU - GHK Organic Pvt. Ltd
29th MoU- Maglam Kalpataru Industries LLP

MoU of 'Banana Macro propagation Technology'

MoU of 'Banana Macro propagation Technology' inked on October 8, 2021 with ICAR-NRCB, Trichy as Technology Inventor and ICAR-AICRP (Fruits), ICAR-IIHR, Bengaluru as Technology Facilitator and FRS, NAU, Gandevi as Technology Provider.

MoU of AABMI with MANAGE, Hyderabad



ASPEE Agribusiness Management Institute, NAU, Navsari signed MoU with National Institute of Agricultural Extension Management (MANAGE), Hyderabad on December 23, 2021. ASPEE Agribusiness Management Institute, NAU, Navsari was selected as Nodal Training Institute under Centrally sponsored Agri-Clinics and Agribusiness Centre (AC&ABC) Scheme which aims to tap the expertise available in the large pool of agriculture graduates by providing 45 days fully residential training at free of cost along with handholding support for transforming persons qualified in the field of agriculture and allied sectors into successful agripreneurs.

MoU of 'Banana Macro propagation Technology' with Farmers



FRS, NAU, Gandevi signed MoU with eleven farmers and one nursery from Surat, Valsad, The Dangs, Tapi and Bharuch districts on November 18, 2021 for production of banana planting material at farms and commercialization purpose through 'Banana Macro propagation Technology'.

Fruit research Station, Gandevi was awarded as Best Centre Award 2021 and Award of Excellence for Linking Technology Development and Transfer for 2021 in icar-AICRP (Fruits) during 9th Group Discussion Meeting held in virtual mode during March 08-11, 2022.



VISITS

Visits of Hon'ble Vice Chancellor, Dr. Z. P. Patel



Visited FRS, Gandevi on June 04, 2021 and reviewed various developmental activities of the centre.



Visited newly established Department of Plant Physiology at NMCA, NAU, Navsari on June 08, 2021 and appreciated the development of micro-propagation protocol and production of tissue culture plantlets of banana var. G 9.



Visited the Department of Genetics and Plant Breeding at NMCA, Navsari on June 8, 2021 and appreciated the efforts of the department in germplasm collection and varietal development.



Hon'ble Vice-Chancellor along with Dr. R. D. Pandya, Principal NMCA and Dr. R. M. Naik, DSW visited

newly established Department of Agricultural Microbiology at NMCA, Navsari on June 8, 2021 and made valuable suggestions for strengthening of the department.



Visited College of Agriculture, Waghai on June 20, 2021 to review the progress made under different projects on Production of quality planting material in horticultural crops and agro-waste management through vermi-composting funded by ICAR under TSP and ELU.



Visited Department of Agricultural Statistics, NMCA on July 02, 2021 and discussed various visionary aspects of strengthening the department.



Visited the Department of Agricultural Engineering, NMCA along with Dr. R. M. Naik, DSW on July 02, 2021 to appraise various activities



Visited landscape site near NAU Gate-2 on July 15, 2021 and appreciated the efforts of Department of Floriculture & Landscape Architecture in beautifying the campus.



Hon'ble Vice Chancellor interacted with the Principal, faculty and students of *Vatsalyadham-A* Home for Orphans, Katargam, Surat on August 03, 2021 and expressed his willingness to contribute by imparting skill & knowledge through University for their livelihood



Hon'ble Vice Chancellor, NAU, Navsari visited Regional Rice Research Station, Vyara on August 18, 2021 and reviewed research activities of the station.



Visited KVK, Navsari on August 05, 2021 and discussed about the developments made by the centre for the farming community



Visited HMRS, Waghai on August 23, 2021 and reviewed the progress of experiments on rice and finger millet



Visited KVK, Vyara August 18, 2021



Hon'ble Vice Chancellor along with Dr. V. R. Naik,

ADR visited Main Rice Research Centre farm on September 04, 2021 and reviewed the different research activities of State and ICAR-AICRP (Rice) trials Visited KVK, Dangs September 17, 2021



Visited Main Rice Research Centre on September 04, 2021 and suggested to explore the possibilities of oil extraction from aromatic rice



Hon'ble Vice Chancellor Dr. Z. P. Patel along with Dr. J. G. Patel, Member, Board of Management, NAU visited Cotton Wilt Research Sub Station Hansot on September 15, 2021



Hon'ble Vice Chancellor attended Annual Conference of Vice Chancellors of Agricultural Universities of the country at NASC Complex, ICAR, New Delhi on September 28, 2021



Hon'ble Vice Chancellor and Dr. (Mrs.) Harshaben Z. Patel visited ELP Unit (PTC, Floriculture department) on October 31, 2021.

Hon'ble Vice Chancellor along with the Vice Chancellors of SAUs of Gujarat visited Gurukul Kurukshetra in Thanesar, Haryana on September 30, 2021



Visited Vegetable Research Farm, RHRS, NAU, Navsari on November 30, 2021

Hon'ble Vice Chancellor along with Dr. D. D. Patel, Principal, CoA, Bharuch and Dr. J. J. Pastagia, Principal, CoA, Waghai visited CAET, Dediapada on October 21, 2021.



Visited Centre of excellence on Post Harvest Technology, ACHF, NAU, Navsari on December 2, 2021

Visited Research Farm, Department of Genetics and Plant Breeding, NMCA, NAU, Navsari on October 30, 2021.



Hon'ble Vice Chancellor and Dr. R. D. Pandya, Principal and Dean, N.M.C.A., NAU, Navsari visited Regional Cotton Research Station, CoA, Bharuch on December 10, 2021.



Visited MSRS, NAU, Navsari on January 18, 2022



Visited Research Farm, Department of Genetics and Plant Breeding, NMCA, NAU, Navsari on February 14, 2022



Hon'ble Vice Chancellor along with Dr. T. R. Alhawat, DR, NAU, Navsari and Dr. V. R. Naik, ADR visited Niger Research Station, Vanarasi on February 18, 2022



Visited Agriculture Experimental Station (AES), NAU, Paria on February 21, 2022.



Visited ATC on Soilless System for Various Crops, NAU, Navsari on March 14, 2022



Visited Fruit Research Station, NAU, Gandevi on March 16, 2022



Visited Horticulture Polytechnic, NAU, Paria on February 21, 2022



activities of sixth semester students under the Horticulture Work Experience (HWE)



Visited Horticulture Polytechnic, ACHF, NAU, Navsari on March 22, 2022 and observed different

Visited Floriculture Research Farm, ACHF on February 23, 2022.

Visit of Dignitaries



Hon'ble Vice-Chancellor, Dr. Z. P. Patel and Mr. Kiranbhai Patel, Joint Managing Director, ASPEE Group of Companies, Mumbai visited CoA, Waghai on June 19, 2021



Dr. Santosh Tiwari, Associate Director, Agro R&D, Pepsico India Holdings Pvt. Ltd., Jalandhar (Punjab) visited to NAU on July 08, 2021



Hon'ble Vice Chancellor Dr. Z. P. Patel and Mrs. Prashasti Pareek (IAS), DDO, Navsari visited KVK, Navsari on June 29, 2021 and appreciated the effort of the centre for installing Solar Energy Operated Power Pump- A step towards green energy.



Hon'ble Vice Chancellor and Dr. Arun Kumar Sarma, DG, NECTAR, DST, GoI visited Banana Pseudostem Processing Unit, Navsari on July 08, 2021.



Hon'ble Vice Chancellor and Shri Dilipbhai Sanghani, Chairman, GUJCOMASOL & Ex. Agri. Minister, GoG visited Department of Post Harvest Technology on August 12, 2021



Hon'ble Vice Chancellor and Shri Dilipbhai Sanghani, Chairman, GUJCOMASOL & Ex. Agri. Minister, GoG visited SSK on August 12, 2021



Shri Dilipbhai Sanghani, Chairman, GUJCOMASOL & Ex. Agri. Minister, GoG, visited Banana Pseudostem Processing Unit, Navsari on August 12, 2021



Dr. Sandeep Nanavati, Professor & Head, LPM Veterinary College, MHOW VCI Inspector visited Agricultural Educatorium. Total 821 persons including farmers, farm women, input dealers, scientists, students visited the museum



Shri V. D. Jalawadia, MLA visited KVK, Navsari on August 07, 2021



Smt. Sujata Majmudar, Superintendent of Police, Tapi visited KVK, Vyara on August 07, 2021



Dr. Dineshkumar Kapadia, DDO, Tapi visited KVK, Vyara on August 07, 2021



Dr. Bilas Singh, (CTO), AFRI, Jodhpur, Rajasthan visited KVK, Vyara on August 13, 2021



Hon'ble Vice Chancellor and Mr. Kiranbhai Patel, JMD, ASPEE Group of Companies, Mumbai visited ASABI, Surat on September 06, 2021



Dr. Harekrishna Mishra, Professor, IT & Systems, IRMA, Anand visited AABMI, NAU, Navsari on September 27, 2021 and also delivered a lecture on role of IT in business management



Hon'ble Vice Chancellor and Bhavin Shah, CEO, Education World, Mumbai visited ASABI, Surat on September 06, 2021



Accreditation of Model Nursery at AES, Paria, Ta. Pardi, Dist. Valsad was done by the assessment committee member's viz. Dr. K. K. Dahiya, Consultant, NHB Nursery and Surendra Singh, DD, NHB, Ahmedabad, Dr. A. K. Pandey Assist. Prof., ACHF, NAU and Mrs. Falguni Patel, HO, Ta. Pardi on October 5, 2021.



ICAR constituted monitoring team including Dr. S. K. Sain, Principal Scientist & Chairman, ICAR-CICR, Regional Station, Sirsa, Dr. S. K. Verma, Principal Scientist and Head & Member, ICAR-CICR, Regional Station, Sirsa, Dr. Kulvir Singh, Principal Scientist (Agronomy) & Member, PAU, RRS, Faridkot, Dr. S. G. Hanchinal, Entomologist & Member, University of Agricultural Science, Raichur, Dr. Kannan, Representative of private sector & Member, M/s. Rasi Seeds Ltd. Attur visited Main Cotton Research Station, NAU, Surat on November 25, 2021 for monitoring of activities going on under AICRP on Cotton.



Shri D. V. Barot, State Nodal Officer ATMA, Gandhinagar visited KVK, Navsari on December 24, 2021



Shri R. J. Patel, IAS (Retired) and Shri D. V. Barot (I/c. Director of Agriculture, Gandhinagar) visited Main Sugarcane Research Station Farm on October 29, 2021.



Dr. S. B. Patil, Research Scientist (Sankheshwar, Karnataka) the team leader of AICRP on Sugarcane monitoring with his team visited Main Sugarcane Research Station on November 16, 2021



Dr. S. K. Sain, Principal Scientist (Plant Pathology), CRRS, Sirsa, Haryana and team of AICRP on Cotton visited different trials conducted at Regional Cotton Research Station, CoA, NAU, Bharuch on November 25, 2021.



Dr. Jawaid Akhtar, IAS, Dr. C. S. Rudragouda, Agronomist, Coffee Research Department, Dr. Y. Raghuramulu, Director of Research, Coffee Board, Bengaluru along with Shri. S. Maniswara Raja, IFS, CCF Valsad and Shri. Agneeshwar Vyas, IFS, DCF, Dang visited Fruit Research Station, Gandevi on December 21, 2021



Dr. Sanjay B. Patel & Members from Monitoring team AICRP (Sugarcane) visited Educational Museum, NAU, Navsari on November 17, 2021



Kailash Prajapati, Assistant Excise Officer & their Staff visited Educational Museum, NAU, Navsari during December 11, 2021



Jayesh Patel, Director of SUMUL Dairy, Surat visited Educational Museum, NAU, Navsari during December 30, 2021



Hon'ble Vice Chancellor Dr. Z. P. Patel along with Mr. Jayeshbhai Patel, Director of SUMUL dairy visited sugarcane stall at Exhibition Centre, NAU, Navsari on January 02, 2022



Dr. Sanjay K. Dwivedi, Director of Personnel, DRDO, New Delhi visited at Floriculture Research Farm, ACHF, NAU, Navsari on February 05, 2022



Shri Kamleshbhai, Shri Nitinbhai, Training Deligates of State Agriculture Department, Gujarat visited MSRS, NAU, Navsari on February 22, 2022



Dr. Shahaji Sambhaji Phand Centre Head (Allied Extension) & Principal Coordinator (AC&ABC) MANAGE, Hyderabad visited AABMI, NAU, Navsari on March 02, 2022



Dr. (Mrs.) Harshaben Z. Patel, Principal, J P College of Arts and Commerce, Killapardi, visited Flower Show at Department of Floriculture and Landscape Architecture, ACHF, NAU, Navsari on March 14, 2022

Visit of Farmers



Fifty farmers of Kapadvanjtaluka of Kheda district visited AICRP on Tuber Crop, ACHF, NAU, Navsari on February 15, 2022.



Farmers of ATMA, Valsad visited to AES, Paria on March 02-07, 2022.



Farmers from Vasia, Maharashtra visited to Banana production farm at Horticulture Polytechnic, NAU, Paria on March 23, 2022.

Visit of Students



Students of Pardi Science College visited to AES, NAU, Paria on February 07, 2022.

Students of Horti. Polytechnic, AAU, Vadodara visited to AES, NAU, Paria on March 23, 2022



BRS students visited KVKfarm, Dediapada on February 19, 2022. The students got information about GKMS Project and utility of Meghdoot and Damini application.

Forty students of Polytechnic in Agriculture, Junagadh Agricultural University, Sidasar were visited MCRS, NAU, Surat on March 23, 2022.



RHWE students ACHF, NAU, Navsari visited to AES Paria March 24, 2022.



Twenty students of 10th semester from the Department of Biotechnology, Veer Narmad South Gujarat University visited MCRS, NAU, Surat on March 25, 2022.



Students of Horti. Polytechnic SDAU, Jagudan visited to AES, NAU, Paria on March 28, 2022.

Certificate Courses

Certificate Course of Baking



Hon'ble Vice Chancellor, Dr. Z. P. Patel inaugurated 67th 'Certificate Course on Bakery' of 20 weeks duration on June 28, 2021. Total 17 participants were enrolled for the course.

12 Weeks Certificate Course on 'Insecticides Management for Insecticides Dealers/Distributors'



KVK, Surat started 12 weeks Certificate Course on 'Insecticides Management' for Insecticide Dealers/Distributors on July 05, 2021



KVK, Vyara started 12 weeks Certificate Course on 'Insecticides Management' for Insecticide Dealers/Distributors on September 03, 2021



Agriculture Technology Information Centre (ATIC), Navsari started registration for 12 weeks Certificate Course on 'Insecticides Management' for Insecticide dealers/ Distributors in the month of September in the gracious presence of Dr. C. K. Timbadia, DEE, NAU, Navsari on September 27, 2021.



The certificate distribution programme was organized by KVK, Surat for 12 weeks certificate course on 'Insecticides management for insecticides dealers/distributors' on October 27, 2021. Total 31 participants were enrolled for the course.



12 Week certificate course on 'Insecticides management for insecticides dealers/distributors' was organized by KVK, Navsari during September 3 to December 3, 2021 (Batch-II). During this training programme, total 35 Agro input dealers/suppliers registered for this certificate course.



ATIC, Navsari arranged field visit of trainees to Regional Cotton Research Station, NARP (Pegion pea) and College of Agriculture, Bharuch on December 4, 2021 under 12 week certificate course on 'Insecticides Management for Insecticides Dealers/Distributors'.



Twelve week "certificate course on Insecticides Management for Insecticides Dealers/Distributors" (Batch-II) was organized by ATIC, NAU, Navsari on February 04, 2022. Total 29 input dealers registered for said course.

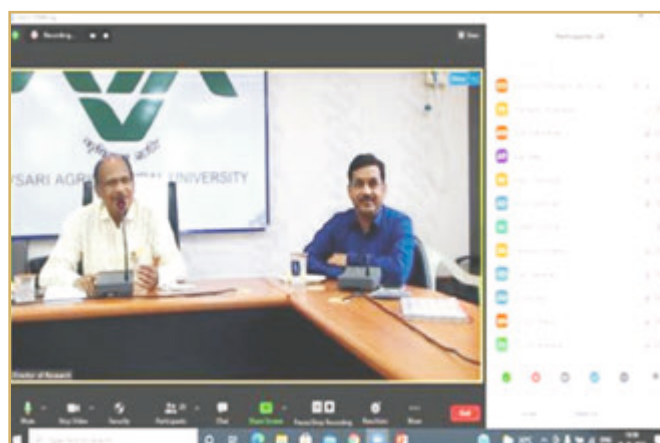
Meeting Organized

Review Meeting of AICRPs

A virtual meeting under the chairmanship of Hon'ble Vice Chancellor, Dr. Z. P. Patel was arranged by the Directorate of Research, NAU, Navsari on April 15, 2021 for reviewing the performance, staff position, financial matters, activities, QRT remarks and significant contributions of each AICRP of the University. Hon'ble Vice Chancellor emphasized on research publications from each recommendation in 6⁺ NAAS rated journals within a year of its approval in Combined AGRESKO and also advised to compile and distribute pamphlets/leaflets highlighting significant achievements of each AICRP Centre.

Review Meeting of Student READY: Experiential Learning Programme

Hon'ble Vice Chancellor, Dr. Z. P. Patel chaired a virtual meeting on June 16, 2021 for reviewing the data entry of activities and success stories of each ELU of the University on Education Portal of ICAR. The Hon'ble Vice Chancellor, emphasized on strengthening of Experiential Learning Programme - an essential component of the Student READY and



DR & Dean PGS, Dr. S.R. Chaudhary emphasized on hands-on-trainings so as to build entrepreneurial qualities among students.

Annual Review Meeting of Farmer FIRST Project

Annual Review Meeting of Farmer FIRST Project (FFP) 'Ensuring Livelihood Security for Small and Marginal Farmers of South Gujarat' was organized virtually under the chairmanship of Hon'ble Vice chancellor, Dr. Z. P. Patel and in the presence of Dr. C. K. Timbdia, DEE on June 30, 2021. The PI and Co-PI



of FFP presented the report of activities carried out and planning of the work under the project.

32nd meeting of ZREAC



November 23, 2021

Meeting of University Placement & Counselling Cell



32nd meeting of ZREAC organized through zoom meet at IT server Room, ASPEE Agribusiness Management Institute on October 5, 2021.

University level meeting of NSS PO's



Cell of NAU, Navsari under the Chairmanship of Hon'ble Vice Chancellor Dr. Z. P. Patel on December 6, 2021



October 30, 2021 for 'Panch Praklapa' suggested by Hon'ble Governor of Gujarat at Veer Narmad South Gujarat University, Surat. DSW Dr. R. M. Naik and 12 POs were participated in the event.

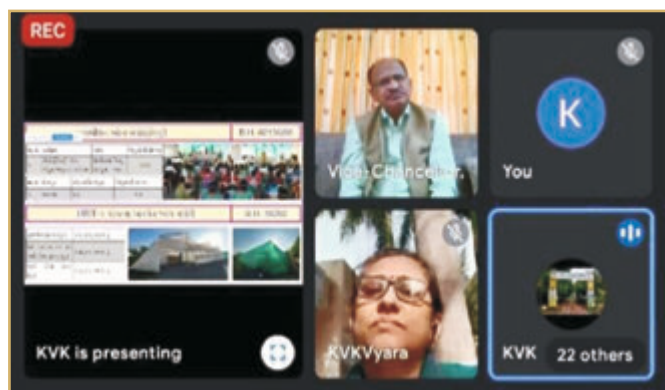
30th ATMA Interface



Workshop for Floriculture was held under Students READY-Experiential Learning Programme by the Department of Floriculture and Landscape

Architecture, ELP Module-1, at ASPEE College of Horticulture and Forestry, Navsari Agricultural University, Navsari on December 31, 2021.

19th SAC Meeting of KVK, Vyara



KVK, Vyara organized 19th Scientific Advisory Committee(SAC) meeting under the chairmanship of Hon'ble, Vice Chancellor Dr. Z. P. Patel, on January 24, 2022 through online mode. Total 22 SAC members including Dr. T. R. Ahlawat, Dr. C. K. Timbadia, DEE, Dr. Anilsinh, Scientist from CSRI, ICAR, Bharuch, Dr. C. D. Pandya, Senior Scientist & Head KVK, Senior scientists, line Department Officials of department of Agriculture, Horticulture and Animal husbandry and representatives of NABARD and NGOs were present in the meeting.

SAC Meeting of KVK, Waghai



January 24, 2022. Dr. C. K. Timbadia, DEE and other 26 members were participated in said meeting.

10th SAC Meeting of KVK, Surat



on January 25, 2022 to review the progress made by KVK during last year and to discuss the future action plan. The meeting was chaired by Hon'ble Vice Chancellor Dr. Z. P. Patel. Dr. T. R. Ahlawat, DR & Dean PG studies, Dr. C. K. Timbadia, DEE, Dr. Lakhansinh, Director, ATARI-Pune and Mr. K. S. Patel, Joint Director of Agriculture, Surat graced the meeting.

14th SAC Meeting of KVK, Dediapada



14th Scientific Advisory Meeting of KVK, Dediapada was held virtually on January 29, 2022 to review the progress made by KVK during last year and to discuss the future action plan. The meeting was chaired by Hon'ble Vice Chancellor Dr. Z. P. Patel. Dr. T. R. Ahlawat, DR & Dean PG studies, Dr. C. K. Timbadia, DEE, Principal of various colleges of NAU and officials of line department were present in the meeting.

Meeting on Mango Export to USA with APEDA



KVK, Navsari organized meeting on mango export to USA with APEDA from Gujarat on March 19, 2022. In this meeting, DEE, Dr. C. K. Timbadia, the Officers of APEDA Mr. Prashant Waghmare from Maharashtra, Mr. Man Prakash Vijay from New Delhi and officers from other part of India remained present through online mode.

Faculty Achievement

- ❖ **Dr. Himani B. Patel**, Asst. Horticulturist, Dept. of Vegetable Science, ACHF, NAU, Navsari received '**Appreciation Certificate**' on May 28, 2021 for securing second position in revenue generation during 2020-21 under the project AICRP on Tuber Crops.
- ❖ **Dr. Harshad A. Prajapati**, Scientist, KVK, Waghai received **Young Scientist Award** on the occasion of International Web Conference on Innovative and Current Advances in Agriculture & Allied Sciences during July 19-21, 2021.
- ❖ **Dr. Pankaj P. Bhalerao**, Asst. Prof. & Project In-charge, AICRP (Palms), ACHF, NAU, Navsari received **Rashtriya Gaurav Top 30 Icon Award** from Golden Era Events and Co-presented by Nation's Pride Book of Records, New Delhi, India for his outstanding excellence in Horticulture Teaching and Research 2021 in the month of July, 2021.
- ❖ **Dr. S. M. Bambhaneeya**, Asst. Prof., Dept. of Soil Science and Agricultural Chemistry, CoA, Bharuch received '**Best Thesis Award**' in the subject of Soil Science from The Association of Plant Science Researchers- an Official Organization of Plantica Foundation, Dehradun, Uttarakhand on July 27, 2021.
- ❖ **Dr. D. M. Pathak**, Assoc. Prof. & Head, Dept. of Plant Pathology, CoA, Bharuch received **Life Time Achievement Award** from Agro Environmental Development Society (AEDS), Rampur (UP) for his outstanding contribution in the field of Plant Pathology on the occasion of 5th International Conference on Advances in Agriculture, Environmental and Biosciences for Sustainable Development held virtually during August 05-07, 2021.
- ❖ **Dr. V. P. Usadadia**, Prof. & Head, Dept. of Agronomy, NMCA, Navsari was conferred with '**Third Best Oral Presentation Prize**' in a National Seminar on 'Advances in Sustainable Management of Natural Resources for Food and Nutritional Security' held in a virtual mode at NAU, Navsari during August 26-27, 2021.
- ❖ **Dr. Neethu T. M.**, Asst. Prof., NMCA was awarded with '**Third Best Oral Presentation Prize**' in a National Seminar on 'Advances in Sustainable Management of Natural Resources for Food and Nutritional Security' held in a virtual mode at NAU, Navsari during August 26-27, 2021 for her research paper entitled 'Production of good quality manure from different crop residues by inouulating with isolated cellulolytic and lignolytic bacterial isolates'.
- ❖ **Dr. Sonal Tripathi**, Assoc. Prof., NMCA was conferred with '**Third Best Oral Presentation Prize**' in a National Seminar on 'Advances in Sustainable Management of Natural Resources for Food and Nutritional Security' held in a virtual mode at NAU, Navsari during August 26-27, 2021 for research paper entitled 'Red Cabbage (*Brassica oleracea* var. *capitata* f. *rubra*) nutritional quality as influenced by nutrient levels'.
- ❖ **Dr. H. M. Patel**, Asst. Prof., Horticulture Polytechnic, ACHF, Navsari received **Best Paper Award** in oral category for the research paper entitled 'Can raising soil organic carbon levels change the yield and quality of cabbage? in a National Seminar on 'Advances in Sustainable Management of Natural Resources for Food and Nutritional Security' held in a virtual mode at NAU, Navsari during 26-27, August 2021.
- ❖ **Dr. Naresh Chaudhari**, SRF, MSRS, NAU, Navsari was conferred with **Best Poster Award** for research paper entitled 'Resource saving technique in sugarcane quality seed production' during national seminar on Advances in Sustainable Management of Natural Resources for Food and Nutritional Security on August 26-27, 2021 in a virtual mode.
- ❖ **Dr. K. B. Sankat**, ARS, MCRS, Surat received **Second Best Poster Award** for research paper entitled 'Multi-tier Cropping System in Bt Cotton Hybrid' in a National Seminar on 'Advances in Sustainable Management of Natural Resources for Food and Nutritional Security' held during August 26-27, 2021 in a virtual mode.
- ❖ **Mr. Kuldeep Choudhary**, Asst. Prof, AABMI Navsari received **Best Researcher Award**

from VDGGOOD Professional Association, Villupuram, Tamil Nadu, India during August 28-29, 2021.

- ❖ **Dr. M. S. Sankanur**, Asst. Prof, CoF, NAU, Navsari was conferred with **Second Prize** in National Level Photo Context organized by Banda Agricultural University, Banda, U.P under innovative products from Bamboo category on the occasion of World Bamboo Day on September 18, 2021.
- ❖ **"Dr. P. D. Sethi Memorial Annual National Awards-2020"** For - Two best research papers;
 1. *Udit M. Nakarani, Diwakar Singh, Kiran P. Suthar, Nilima Karmakar, Priti Faldu and Harshal E. Patil (2021). Nutritional and phytochemical profiling of nutraceutical finger millet (Eleusine coracana L.) genotypes. Food Chemistry.30(341): 128-271.*
 2. *Bhavika R. Dobariya, Diwakar Singh, Kiran P. Suthar and Vipul B. Parekh (2020). International Journal of Tropical Agriculture, 38(4): 313-328.*
- ❖ **Dr. Mehul G. Thakkar**, Asso. Prof.(HRM) and University Placement & Counseling Head has been conferred the most coveted **"Proud Indian Distinguished Placement Head Award-2021"** by the Ratna Prasad Multidisciplinary Research & Educational Society, Vijayawada (*International NGO Registered with Govt. of India NITI Aayog NGO Darpan*) on October 15, 2021
- ❖ **Dr. A. J. Deshmukh** received award in research paper **poster presentation** of Indian Phytopathological Society National Symposium -2021, held at College of Agriculture, VNMKV, Latur during November 17-18, 2021.
- ❖ **Dr. D. D. Patel**, Principal, CoA, NAU, Bharuch awarded **Fellow, Indian Society of Agronomy, New Delhi** on the occasion of 5th International Agronomy Congress organized by Indian Society of Agronomy, New Delhi at PJTSAU, Hyderabad during November 23-27, 2021.
- ❖ **Dr. Tushar U. Patel**, Asst. Prof., Dept. of Agronomy received **Best Oral Presentation Award** on the occasion of 5th International Agronomy Congress organized by Indian Society of Agronomy, New Delhi at PJTSAU, Hyderabad during November 23-27, 2021.
- ❖ **Dr. Mehul G. Thakkar**, Asso. Prof.(HRM) and University Placement & Counseling Head has been selected as the **"Start-Up Mentor"** by the Confederation of Indian Industries (CII) and i-HUB (Govt. of Gujarat) on December 12, 2021.
- ❖ **Dr. Nitin Varshney**, Asstt. Prof., received **Best Thesis award 2021** in the subject of Agricultural statistics at ICAR-IARI, New Delhi on the occasion of International Web conference on Global Research Initiatives for sustainable agriculture & Allied science (GRISAAS-2021) during December 13-15, 2021.
- ❖ **Dr. Y. A. Garde**, Asstt. Prof., received **"Young Scientist Award"** for his outstanding contribution in the field of Agricultural Statistics on the occasion of International Web Conference on 'Innovative and Current Advances in Agriculture & Allied Sciences' during December 13-15, 2021 by Astha Foundation, Meerut (U.P.).
- ❖ **Dr. Mehul G. Thakkar**, Asso. Prof.(HRM) and University Placement & Counseling Head appointed as the **"International Advisory Board Member"** of the Most Trusted Global Journal Indexing and Citation Analysis Research Database SCOPE on December 25, 2021.
- ❖ **Dr. Abhishek Shukla**, Head, Dept., Entomology, NMCA, NAU received **"Associate Scientist Award"** and **Dr. M. R. Siddhappara**, ARS, NMCA, NAU received **"Young Scientist Award"** in one-day state-level seminar "Maintenance of quality and safety of horticultural and food crops through biological control of pests and diseases" held at Navsari Agricultural University, Navsari Gujarat organized by Unit-4 (Pesticide Residue Analysis), NAHEP-CAAST Sub-project in association with Plant Protection Association of Gujarat (PPAG), Navsari at December 30, 2021.
- ❖ **Dr. Vijay A. Patil**, Asst. Prof., Main Rice Research Centre received **Young Scientist Award** in the subject of Plant Pathology from PPAG on December 30, 2021 in a one-day state level seminar held at NAU, Navsari.

- ❖ **Dr. Rajesh P. Gunaga**, Asso. Prof. (FB/AF) and HoD, Dept. of Forest Products and Utilization, College of Forestry, NAU, Navsari, recognized as **Expert member** of PEG (Project Expert Group) of different AICRP schemes of ICFRE, Dehradun.
- ❖ **Dr. Jaimin R. Pandya**, ARS, Regional Cotton Research Station, COA, Bharuch elected for the position of **Councilor, West Zone of Indian Society of Plant Pathologists**, Department of Plant Pathology, Punjab Agricultural University, Ludhiana, Punjab for the year 2021 and 2022.
- ❖ **Dr. Mehul G. Thakkar**, Asso. Prof. (HRM), AABMI, NAU, Navsari became the **Certified National Lead Assessor & Certified National Master Trainer** for the Qualification Pack of Trainer (MEP/Q2602) - v1.0 conforming to National Skill Qualification Framework Level – 6; by the Mgt. & Entrepreneurship and Professional Skills Council (MEPSC), National Skill Devt. Corporation (NSDC), Ministry of Skill Devt. & Entrepreneurship (MSDE), Govt. of India on January 10, 2022.
- ❖ **Best Teacher Award for the year 2020-21** was awarded to **Dr. Sanjeev Kumar**, Asst. Prof., Dept. of Vegetable Science, ACHF, NAU, Navsari in 17th Annual Convocation of NAU, Navsari on February 08, 2022.
- ❖ **Best Researcher Award for the year 2020-21** was awarded to **Dr. Pathikkumar B. Patel**, Asso. Research Scientist, Main Rice Research Centre, SWMRU, NAU, Navsari in 17th Annual Convocation of NAU, Navsari on February 08, 2022.
- ❖ **Dr. Mehul G. Thakkar**, Asso. Prof. (HRM), AABMI, NAU, Navsari received **Best Research Paper Award** for his 3 research papers in the PIMR XVII International Conference on “Assimilating the Transformation in Business, Entrepreneurial & Social Practices for Leaping into the Future” held at the Prestige Institute of Management & Research, Indore (M. P.) during February 19-20, 2022
- ❖ **Mrs Kotramma Addangadi**, Asst. Prof., Dept. of Plant Pathology and her team received the **second prize** (Rs. 15000/-) at National level Hackathon on Smart and Remunerative Farming on the innovative idea “Waste to Wealth: Sustainable Exploration of Natural Dyes from *Gmelina arborea* (Roxb.) for Color and Wellbeing”. The event organized by NAHEP-CAAST sub project, NAU, Navsari on March 05, 2022
- ❖ An article “Can on Farm Vermiwash Production Reduce Today's Demand of Chemical Fertilizers of India?” authored by **Patel Hemant M., Patel Ketan B., Bhatt Shivam, Desai Ketan & Patel Tushar U.** published in volume 03, issue 09 of Agriculture & Food e-Newsletter was awarded with Best Article Award (Article id 10738).

Student Achievement

- ❖ Mr. Parth Savaliya, 8th semester B.Sc. (Agri.) student won first prize in Yogasan and Surya Namaskar Competition organized under FIT INDIA program on August 01, 2021.
- ❖ Mr. Jadhav Kaushik Amrishbhai (Reg. No. 3050917008) a passed out student of CAET, Dediapada secured 2nd Rank in ICAR AIEEA 2021 Exam in the academic year 2020-21.
- ❖ Miss Nishi Kumari from COA, Waghai won second prize in the poster presentation in the celebration of World Soil Day held at Anand Agricultural University, Anand during December 3-4, 2021.
- ❖ Dr. Rameti Jhangir, passed out student of NMCA received Best Ph. D. Thesis Award 2019 entitled "Integrated nutrient management in grain amaranth (*Amaranthus hypochondriacus* L.) – cowpea (*Vigna unguiculata* L. WALP) cropping sequence under south Gujarat condition" by Indian Society of Agronomy, New Delhi on occasion of 5th International Agronomy Congress held at Hyderabad during November 23-27, 2021.
- ❖ Dr. Santosh Onte, passed out student of NMCA received **Best M.Sc. Thesis Award 2017** entitled "Ferti-fortification of cobalt in

chickpea by Indian Society of Agronomy, New Delhi on occasion of 5th International Agronomy Congress held at Hyderabad during November 23-27, 2021.

- ❖ Nitin Mohanan, (Reg. No. 2010119063), M.Sc. (Agricultural Statistics) student received “**Best Thesis**” award for M.Sc. research work on “Assessment of Export Instability and Forecasting of Price and Export of Total Pulses in India” on the occasion of International Web Conference on Annovative and Current Advances in Agriculture & Allied Sciences during December 13-15, 2021 by Society for Scientific Development in Agricultural and Technology, Meerut (U.P).
- ❖ Students of NMCA, NAU, Navsari got different prize in "World Soil Day 2021" celebration during December 3-4, 2021 organized by NAHEP-CAAST in collaboration with Department of Soil Science and Agricultural

Chemistry, NMCA, NAU Navsari and the Indian Society of Soil Science (Navsari chapter)

- ❖ The students of eight semester B.Sc. Forestry, Ms. Shruti Singh and her team received first prize (Rs. 25000/-), Mr. Ritesh Ahir and his team received second prize (Rs. 15,000/-), Ms. Dolly Vaishnavi and her team received third prize (Rs. 10,000/-) for presenting their innovative research ideas in the Hackathon event entitled “Smart and Remunerative Farming” held at NAU, Navsari on March 05, 2022 under NAHEP-CAAST sub project.
- ❖ Ms. Laxmi Prasanna, Ph.D. Agriculture student and her team received second prize (Rs. 15,000/-) for presenting their innovative research idea in forestry sector theme in the National Hackathon entitled “Smart and Remunerative Farming” held at NAU, Navsari on March 05, 2022 under NAHEP-CAAST sub project.

Inauguration of Facilities

Seasonal Inauguration of Fruit Processing (Canning and Bottling) Unit, PHT



Hon'ble Vice Chancellor, Dr. Z. P. Patel inaugurated Mango Canning and Bottling Unit in the Department of Post-Harvest Technology, ACHF, NAU, Navsari on June 09, 2021 for seasonal initiation.

Inauguration of Revived Automatic Weather Station (AWS)

Hon'ble Vice-Chancellor, Dr. Z. P. Patel inaugurated the revived Automatic Weather Station at Agro-



meteorological Observatory of the University on June 14, 2021.

Agricultural Experiment Monitoring System (AEMS)

Hon'ble Vice Chancellor, Dr. Z. P. Patel inaugurated Agricultural Experiment Monitoring System (AEMS) on July 9, 2021, the first of its type in State Agricultural Universities of Gujarat. The vision of Hon'ble Vice Chancellor has been conceptualized through AEMS online portal which was developed by Mr. Chirag Naik and team of IT Cell to record,



report and manage all the experiments efficiently and effectively. Hon'ble Vice Chancellor propounded that AEMS would revolutionize the way agricultural experiments are monitored and documented by scientists of the University and also urged scientific fraternity to embrace the portal and make the most of it for the welfare of farmers of South Gujarat, Gujarat and country as whole

Inauguration of Newly Established Department of Wildlife Sciences



Hon'ble Vice-Chancellor, Dr. Z. P. Patel inaugurated the newly established Department of Wildlife Sciences at College of Forestry, Navsari on June 18, 2021 along with the Principal & Dean, Dr. P. K. Shrivastava and faculty members of the college. Hon'ble Vice-Chancellor interacted with the faculties and discussed about future roadmap for strengthening of the department.

Virtual Meeting and E-class Room

Hon'ble Vice Chancellor, Dr. Z. P. Patel inaugurated 'Virtual Meeting and E-class Room' in the Department of Entomology on August 07, 2021. He



also dedicated 'Dr. A. H. Shah Library' to Agricultural Aspirants especially the seeders of Entomology Science

Inauguration of 'Vatika Kutir'



Dr. Z. P. Patel, Hon'ble Vice-Chancellor, inaugurated 'Vatika Kutir' (A display gallery of Indoor-scaping) at Green House Complex, Department of Floriculture & Landscape Architecture, ASPEE College of Horticulture and Forestry, Navsari Agricultural University on October 27, 2021.

Inauguration of NTFPs and MAPs Museum at College of Forestry



The NTFPs and MAPs Museum established at College of Forestry, Navsari under NAHEP-CAAST sub-project as a part of strengthening existing facilities was inaugurated by Hon'ble Vice Chancellor Dr. Z. P. Patel on November 27, 2021 in the presence of Dr. S. R. Chaudhary, Director of Research and Dean PGS, Dr. T. R. Ahlawat, PI and Nodal Officer, CAAST; Dr. P. K. Shrivastava, Principal & Dean, ACHF and faculties of College of Forestry.

NAU Play Ground Inspection and Handed Over to Students



Hon'ble Vice-Chancellor Dr. Z. P. Patel inspected and handed over newly developed Play Ground to the students of NAU on December 8, 2021 for their upcoming tournaments in the presence of Dr. S. R. Chaudhary - DR; Dr. C. K. Timbadia- DEE; Dr. H. V. Pandya- Registrar; Dr. R. D. Pandya- Dean NMCA; Dr. P. K. Shrivastava -Dean, ACHF; Dr. R. M. Naik- DSW, staff members and students of NAU. Hon'ble Vice Chancellor appreciated the efforts of DSW office for making this wonderful play ground.

Inauguration of Virtual Meeting & E-class Room



Hon'ble Vice-Chancellor Dr. Z. P. Patel inaugurated the well-equipped virtual meeting & e-class room in the Department of Agronomy, N. M. College of Agriculture on December 2, 2021.

Gymnasium Inauguration



Hon'ble Vice Chancellor Dr. Z. P. Patel inaugurated state of the art gymnasium with all modernized equipments and facilities on March 01, 2022. Dr. T. R. Ahlawat, DR & Dean PGS, NAU; Dr. R. M. Naik, DSW, NAU and other University Officers were also present in inaugural function.

Inauguration of Gardens



Hon'ble Vice Chancellor Dr. Z. P. Patel inaugurated "Tsuboniwa" Courtyard garden and "Kaiyu Shiki Teien" -Strolling gardens at ASPEE College of Horticulture and Forestry, NAU, Navsari on February 28, 2022. Dr. P. K. Shrivastava, Dean, ACHF and Head of all the departments were also present on the occasion.

4 | Education

The Navsari Agricultural University offers undergraduate and postgraduate degree programmes through existing eight colleges *viz.*, N.M. College of Agriculture (1965), ASPEE College of Horticulture (1988), College of Forestry (1988), ASPEE Agri-Business Management Institute (2007) located at main campus of Navsari and out campus colleges *viz.* ASPEE Shakilam Agricultural Biotechnology Institute, Surat (2012), College of Agriculture, Bharuch and Waghai (2012), College of Agricultural Engineering, Dediapada (2013). New colleges were started with the financial support from Government of Gujarat to meet the increasing demand for admission to agricultural and allied science degree programmes. NAU offers UG and PG degree programmes in the disciplines of Agriculture, Horticulture, Forestry, Agricultural Engineering and Agricultural Biotechnology. Besides, AABMI offers only PG programme. At present, NAU offers 5 Undergraduate, 26 Masters and 18 Doctoral degree programmes in agriculture and allied science.

Moreover, University offers six polytechnic in diploma programmes in the agriculture and allied sciences and 16 Agro ITI courses to produce medium skilled manpower for working at grass-root level.

Details of Intake in different Degree Programmes of NAU

Sr. No.	Faculty	No. of Departments	No. of Degree Programmes					
			UG	Intake	Masters	Intake	Ph.D.	Intake
1.	Agriculture	13	1	303	13	152	10	46
2.	Horticulture	07	1	77	05	44	04	15
3.	Forestry	05	1	72	04	31	03	06
4.	Biotechnology	05	1	66	00	00	00	00
5.	Agribusiness Management	01	0	0	01	35	01	03
6.	Agricultural Engineering	04	1	30	03	15	00	00
Total		35	5	548	26	277	18	70

PG Degree Programmes

Faculty: Agriculture

Sr. No.	Name of Disciplines	M.Sc.	Ph.D.
1	Agronomy	Yes	Yes
2	Agri. Chem. & Soil Sci.	Yes	Yes
3	Agril. Entomology	Yes	Yes
4	Plant Pathology	Yes	Yes
5	Genetics & PB	Yes	Yes
6	Plant Physiology	Yes	Yes
7	Agril. Economics	Yes	Yes
8	Extension Education	Yes	Yes
9	Agril. Statistics	Yes	Yes
10	Agril. Meteorology	Yes	Yes
11	Agril. Microbiology	Yes	Yes
12	Biochemistry	Yes	Yes
13	Plant Molecular Biology & Biotechnology	Yes	Yes
Total		13	10

Faculty: Horticulture

Sr. No.	Name of Disciplines	M.Sc.	Ph.D.
1	Fruit Science	Yes	Yes
2	Floriculture and Landscape Architecture	Yes	Yes
3	Vegetable Science	Yes	Yes
4	Post-Harvest Technology	Yes	Yes
5	Plantation Crops, Spices, Medicinal Plants and Aromatic Plants	Yes	Yes
Total		05	04

Faculty: Forestry

Sr. No.	Name of Disciplines	M.Sc.	Ph.D.
1	Silviculture and Agroforestry	Yes	Yes
2	Forest Biology and Tree Improvement	Yes	Yes
3	Forest Products and Utilization	Yes	Yes
4	Natural Resource Management	Yes	Yes
Total		04	03

Faculty: Agri-Business Management

Sr. No.	Name of Disciplines	MBA	Ph.D.
1	Agribusiness Management	Yes	Yes
Total		01	01

Faculty - M.Tech. Agricultural Engineering & Technology

Sr. No.	Name of Disciplines	M.Sc.	Ph.D.
1	Farm Machinery & Power Engineering	Yes	Yes
2	Soil & Water Conservation Engineering	Yes	Yes
3	Processing & Food Engineering	Yes	Yes
4	Renewable Energy Engineering	Yes	Yes
Total		03	0

Admission Policy

The admission to various UG and PG Degree programmes in all SAUs of Gujarat is given by Central Admission Committee. The candidates are admitted to B.Sc. (Hons.) Agriculture, B.Sc. (Hons.) Horticulture and B.Sc.(Hons.) Forestry, after passing H.S.S.C examination (10+2 system) in science stream (B group) or vocational stream in agriculture from Gujarat state Educational Board or its equivalent. The minimum qualifying marks for admission to above courses are 40% for general and S.E.B.C category and 35% for SC and ST candidates. Similarly, candidates are also admitted to B.Tech. (Agri. Engineering) degree programme based on marks obtained in common entrance test (GUJCET) and JEE, respectively.

Admission to post graduate degree programmes like M.Sc. (Agriculture), M.Sc. (Horticulture), M.Sc. (Forestry) and M.Tech. (Agri. Engineering & Technology) is given to the candidates having Bachelor's degree in respective faculty with OGPA not less than 6.00/10.00. The admission procedures laid down by Central Admission committee for four SAUs of Gujarat is followed.

Admission to M.B.A (ABM) degree programme is given to candidates with graduate or post graduate degree in Agriculture/Horticulture/Forestry or allied sciences or a graduate degree in Biological sciences

with OGPA not less than 5.5 /10.00 for general category and 5.0/10.00 for SC/ST/SEBC categories. Eligible candidates then appear for written entrance test, group discussion and personal interviews and admission is given based on the merit list.

Admission to Ph.D. (Agri/Horti/Forestry) degree programme is given to candidates having master's degree in respective discipline with OGPA not less than 6.50/10.00 for all categories. Eligible candidate need to pass written entrance test as per common admission procedure of SAUs of Gujarat.

Admission to the PG degree programmes of all four SAUs of Gujarat is given by Central Admission Committee after conducting Command Entrance Test. The merit list is prepared by giving 50% weightage to OGPA of last degree and 50% weightage to marks of common entrance test.

Admission to polytechnic is given to candidates possessing Secondary School Certificate (S.S.C) examination with English as compulsory subject from Gujarat State Education Board (GSEB). The minimum qualifying marks for admission in polytechnic is 40% for general and SEBC and 35% for SC and ST candidates. Admission is given to candidates based on merit list.

New admissions

During the year under report, 1088 students were admitted in different UG and PG degree programmes offered by the NAU. This included 461 students in UG programmes, 39 in D to D, 255 in Diploma in polytechnic, 258 in Masters and 75 in Ph.D. degree programmes of the University. During the year 2021-22, admissions to undergraduate degree programme was increased from 193 (2010-11) to 500, thus intake of UG degree programme was increased by 259.06 per cent.

Thus overall admission to various degree programmes was increased from 391 (2010-11) to 1088 (2021-22) students and increase was recorded as high as 278.26 per cent.

Students Admitted

Sr. No.	Degree programme	No. of students admitted	
		Regular	D to D
Undergraduate			
1.	B.Sc. (Hons.) (Agriculture)	258	29
2.	B.Sc. (Hons.) (Horticulture)	78	7
3.	B.Sc. (Hons.) (Forestry)	57	0
4.	B.Sc.(Biotechnology)	48	0
5.	B.Tech.(Agril. Engineering)	20	3
Total		461	39
Masters			
6.	M.Sc. (Agriculture)	140	
7.	M.Sc. (Horticulture)	44	
8.	M.Sc. (Forestry)	07	
9.	M.B.A (ABM)	33	
10.	M.Tech. (Agril. Engineering)	00	
Total		224	
Ph. D.			
12.	Agriculture	39	
13.	Horticulture	12	
14.	Forestry	02	
15.	M. Tech. (Agril. Engineering)	00	
16.	Agribusiness Management	02	
Total		55	
Total Admission		279	

Students admitted to Polytechnic

Sr. No.	Courses	No. of students admitted
1.	Polytechnic in Agriculture, Bharuch	44
2.	Polytechnic in Horticulture, Navsari	43
3.	Polytechnic in Agriculture, Vyara	43
4.	Polytechnic in Agriculture, Waghai	44
5.	Polytechnic in Agricultural Engineering, Dediapada	43
6.	Polytechnic in Horticulture, Paria	38
	Total Admission	255

Syllabus implemented

External system of examination for B.Sc. (Agri) is being implemented as per the recommendations of ICAR and 5th Dean's committee. However, internal system of examination is adopted for B.Sc. (Horticulture) and B.Sc. (Forestry). Post graduate syllabus and system of examination recommended by ICAR has been implemented for post graduate studies in NAU since 2009.

Passed out students

During the year 2021-22, total 442 undergraduate students including 267 B.Sc. (Agriculture), 68 B.Sc. (Horticulture), 37 B.Sc. (Forestry), 44 B.Sc. (Agril. Biotechnology), and 26 B.Tech. (Agri. Engineering & Technology) passed out from different faculties of NAU.

A total of 281 students completed their postgraduate studies at NAU. Out of 217 post graduates, 64 students completed Ph.D. and 217 students completed masters in Agriculture (133), Horticulture (36), Forestry (8) and Agribusiness Management (40) during the year 2021-22.

A total of 214 students completed their Diploma at NAU including in Agriculture (116), Horticulture (66), Forestry (8) and Agri. Engineering (32) during the year 2021-22.

Experiential Learning Units

Presently, ten experiential learning units are in operation in the University for giving opportunities to 'Earn while Learn' and to provide hands on training to undergraduate students. These ELPs have been developed from financial support from ICAR, New Delhi as well as from stateshare. The details of ELPs are given as under:

Sr. No.	Name of ELP Units	Sanctioned during	Name of the Colleges
1	Bio-fertilizer Production Unit	2006	N.M. College of Agriculture, Navsari
2	Post-Harvest Handling and Value Addition in Horticultural Crops	2006	ASPEE College of Horticulture, Navsari
3	Plant Tissue Culture	2007	N.M. College of Agriculture, Navsari
4	High Tech Protected Cultivation of Horticultural Crops	2008	ASPEE College of Horticulture, Navsari
5	Commercial Apiculture	2011	College of Forestry, Navsari
6	Commercial Horticulture	2011	ASPEE College of Horticulture, Navsari
7	Development of Quality Planting Material in Forestry	2016	College of Forestry, Navsari
8	Enriched Vermicompost Production	2017	College of Agriculture, Bharuch
9	Quality Material Production in Horticultural crops	2018	College of Agriculture, Waghai
10	Agriculture Waste Management through Vermicompost	2018	College of Agriculture, Waghai

Student's Achievements at National Level Competitions (2021-22)*

Sr. No.	Faculty	No. of Students qualified			
		ICAR- JRF	ICAR-SRF	ARS	NET#
1	Agriculture	16	09	00	73
2	Horticulture	09	06	00	28
3	Forestry	10	03	00	08
4	Agricultural Biotechnology	09	00	00	00
5	Agribusiness Management	00	00	00	00
6	Agril. Engineering	01	00	00	00
	Total	45	18	00	109

*Details are given in respective Colleges

RAWE Programme

As per the fifth Dean's committee recommendation, RAWE programme is being followed regularly for Agriculture, Horticulture and Forestry faculties.

Sr. No.	Name of the College	No of Students of Beneficiaries with Stipend		Total
		RAWE	Internship	
		No.	No.	No.
1	N.M. College of Agriculture, Navsari	133	-	133
2	College of Agriculture, Bharuch	70	-	70
3	College of Agriculture, Waghai	63	-	63
4	ASPEE College of Horticulture, , Navsari	120	-	120
5	College of Forestry, Navsari	37	-	37
6	ASPEE SHAKILAM Biotechnology Institute, Surat	44	-	44
	Total	467	00	467

National Talent Scholarship

NTS financed by ICAR, New Delhi was granted to a total of 157 students including 133 students of Agriculture, 23 from Horticulture, 24 from Forestry, 22 students of Agricultural Biotechnology and 13 students of Agribusiness Management faculties of the University during the year 2021-22.

Teachers' Strength

During the year 2021-22 a total strength of teacher working at different faculties was 395 including 38 Professor and its equivalent, 103 Associate Professor and its equivalent and 254 Assistant Professor and its equivalent.

Staff Position

Details of activity wise Posts sanctioned (S) and filled (F)

Name of Post	Education		Research		Extension		Total	
	S	F	S	F	S	F	S	F
Professor	38	30	12	08	00	00	50	38
Associate Professor	87	75	37	23	06	05	130	103
Assistant Professor	186	141	97	78	41	35	324	254
Total	311	246	146	109	47	40	504	395

Participation in seminar, symposium, conference & workshops by faculties

During the period under report a total of 217 NAU faculties attended & presented research papers in seminars, symposiums and conferences as well as attended workshops/training including 21 Professors, 54 Associate Professors and 142 Assistant Professors.

Sr. No.	Name of the College	Professor	Associate Professor	Assistant Professor	Total
1	N M College of Agriculture, Navsari	03	13	30	46
2	College of Agriculture, Bharuch	03	11	16	30
3	College of Agriculture, Waghai	00	02	06	08
4	ASPEE College of Horticulture, Navsari	01	09	35	45
5	College of Forestry, Navsari	01	03	14	18
6	ASPEE Agribusiness Management Institute, Navsari	01	10	03	14
7	ASPEE Shakilam Agribiotechnology Institute, Suart	00	00	03	03
8	College of Agricultural Engineering, Dediapada	00	00	00	00
Total		21	54	142	217

Participation in capacity building programme by faculties

During the period under report a total of 217 NAU faculties attended capacity building programmes/courses (summer school/winter school and short course) including 21 Professors, 54 Associate Professors and 142 Assistant Professors.

Sr. No.	Name of the College	Professor	Associate Professor	Assistant Professor	Total
1	N M College of Agriculture, Navsari	03	13	30	46
2	College of Agriculture, Bharuch	03	11	16	30
3	College of Agriculture, Waghai	00	02	06	08
4	ASPEE College of Horticulture, Navsari	01	09	35	45
5	College of Forestry, Navsari	01	03	14	18
6	ASPEE Agribusiness Management Institute, Navsari	01	10	03	14
7	ASPEE Shakilam Agribiotechnology Institute, Suart	00	00	03	03
8	College of Agricultural Engineering, Dediapada	00	00	00	00
Total		21	54	142	217

5 | N. M. College of Agriculture Navsari

The Institute

Navinchandra Mafatlal College of Agriculture, popularly known as N. M. College of Agriculture, is the first educational institution established in the field of agriculture in South Gujarat. The college was established in May, 1965 with a vision to impart agricultural education and uplift the socio-economic status of agriculture-based community of the region. At the time of its establishment, the college was affiliated to Gujarat University, Ahmedabad during 1965 to 1968. Later, from 1968 to 1972, the college was affiliated to the South Gujarat University, Surat. Thereafter, with the establishment of a dedicated agricultural university in Gujarat, the college was affiliated to erstwhile Gujarat Agricultural University (GAU) from 1972 to 2004. Navsari Agricultural University came into existence in 2004. Since then, N.M. College of Agriculture became a constituent college of Navsari Agricultural University (NAU). During the year 2014-15, N.M. College of Agriculture completed its fifty years of establishment. In last fifty years, the institute has achieved a noteworthy recognition for its quality education, research and extension and has been rendering ceaseless services in the form of producing quality trained human resources and technologies for the benefit of its various stakeholders and has blossomed into one of the leading agricultural colleges of Gujarat.



Navsari Agricultural University came into existence in 2004. Since then, N.M. College of Agriculture became a constituent college of Navsari Agricultural University (NAU). During the year 2014-15, N.M. College of Agriculture completed its fifty years of establishment. In last fifty years, the institute has achieved a noteworthy recognition for its quality education, research and extension and has been rendering ceaseless services in the form of producing quality trained human resources and technologies for the benefit of its various stakeholders and has blossomed into one of the leading agricultural colleges of Gujarat.

To keep pace with the advancements in the agricultural education system and in order to maintain standards of teaching, the college adopted the revised academic curricula recommended by different Dean's committees from time to time. In order to offer hands on training to the students while learning, the college has been successfully running the Experimental Learning Programme (ELP) with the establishment of Bio-fertilizer Production Unit and has received much deserved appreciation from ICAR and other national agencies. The college adheres to the guidelines issued by the ICAR from time to time and has also implemented the "Best Teacher Award Scheme" as per ICAR guideline since 2011 to encourage and motivate the faculty members to maintain and uplift the quality of teaching and research. The college has fifteen departments with Food Quality Testing Laboratory to impart quality education to the students enrolled in undergraduate and postgraduate degree programmes.

After 2004, under the flagship of Navsari Agricultural University, the college flourished with all types of infrastructural facilities to attract more students from national and international level to pursue their UG and PG degree programmes. The college has implemented the Fifth Deans' Committee recommendations from 2017 to cope with the needs and recent advancement of higher education. Since its inception, NMCA has produced about 4000 undergraduates in agriculture and 2383 (1899 M.Sc. and 484 Ph.D.) postgraduate students in different disciplines of Agricultural Sciences. Total 133 undergraduate and 156 postgraduate students graduated during reporting period. Total 26 research projects funded by various agencies viz., GoG, ICAR, DST, IMD and others agencies are currently running at the college. Considering production of various end-use products, around 26510 liters of Bio-fertilizers and 187 kg of *Trichoderma* were produced by Department of Plant Pathology, 1176 Trichocards and 170 Chrysocards were produced by Department of Entomology for the benefit of the farmers. In fact, Department of Plant Physiology also produced 7016 banana tissue culture plants.

In addition to the above achievements, agriculture students cracked different competitive examinations namely ICAR NET (seventy students), ICAR JRF (seven students) and ICAR SRF (nine students) during the year 2021-22. This success at national level competitive examinations reflects the dedication of the teachers, excellent teaching facilities and vibrant educational and research atmosphere in the N.M. College of Agriculture, NAU, Navsari. The college publishes "Navkrushak" magazine every year which reflects vibrant co-curricular atmosphere of N. M. College of Agriculture.

Faculty information 2021-22

Sr. No.	Name of the Post	Sanctioned posts	Filled posts	Composition of filled posts							
				Educational qualification				Domicile state		Gender	
				Master		Doctoral		Gujarat	Out states	Male	Female
				Gujarat	Out states	Gujarat	Out states				
1	Principal	01	01	00	00	01	00	01	00	01	00
2	Professors	11	05	00	00	04	01	04	01	05	-
3	Associate Professors	27	19	00	00	15	04	13	06	17	02
4	Assistant Professors	54	42	12	00	22	08	27	15	29	13
Total		93	67	12	00	42	13	45	22	52	15

List of Departments

Sr. No.	Name of Department	Sr. No.	Name of Department
1	Department of Agronomy	9	Department of Agricultural Microbiology
2	Department of Genetics and Plant Breeding	10	Department of Agricultural Statistics
3	Department of Entomology	11	Department of Agricultural Economics
4	Department of Plant Pathology	12	Department of Agricultural Extension and Communication
5	Department of Crop Physiology	13	Department of Animal Sciences
6	Department of Soil Science and Agricultural Chemistry	14	Department of English
7	Department of Horticulture	15	Food Quality Testing Laboratory
8	Department of Agricultural Engineering		

Academic Programmes offered

Degree Programmes	Duration	Total Credits
B. Sc. (Hons.) Agriculture	8 Semesters	185
M.Sc. (Agri.)	4 Semesters	54
Ph.D.	6 Semesters	73

Under Graduate Credit details (As per V Deans' committee recommendations)

Semesters	Number of Courses	Theory+Practical = Total Credits
First	11	14+08=22
Second	11	16+08=24
Third	10	15+09=24
Fourth	12	15+09=24
Fifth	11	14+10=24
Sixth	11	14+11=25
Seventh	02	0+22=22
Eight	01	0+20=20
Total		88+97=185

Post Graduates Programmes offered

SN	Disciplines of PG Programmes	Masters' Degree	Doctoral Degree
1	Agronomy	Yes	Yes
2	Soil Science	Yes	Yes
3	Agricultural Statistics	Yes	Yes
4	Entomology	Yes	Yes
5	Agricultural Economics	Yes	Yes
6	Plant Pathology	Yes	Yes
7	Genetics and Plant Breeding	Yes	Yes
8	Agricultural Extension and Communication	Yes	Yes
9	Crop Physiology	Yes	Yes
10	Agricultural Microbiology	Yes	Yes
11	Agricultural Meteorology	Yes	Yes
12	Molecular Biology and Biotechnology	Yes	Yes
	Total	12	12

Post Graduates Programmes offered

Degree	Gender	Intake capacity	Gujarat							ICAR	Foreign	Total
			Gen	SEBC	SC	ST	CBSE	EWS	Total			
B.Sc. (Hons.) Agri.	Male	129+20	21	20	04	05	02	08	60	10	-	70
	Female	ICAR	15 ^s	06 ^l	03	10	02	06	42	06	-	48
	Total		36	26	07	15	04	14	114	17	-	131
M.Sc. Agri.	Male	130	19	15	03	02	0	11	50+2*	14	-	66
	Female		19	04	02	09	0	01	35	14	-	49
	Total		38	19	5	11	0	12	87	28	-	115
Ph.D.	Male	46	07	03	00	01	0	02	13+05*	03+03 [#]	-	24
	Female		05	01	01	01	0	01	09	03+01 [#]	-	13
	Total		12	04	01	02	0	03	27	10	-	37

^sIncluding 01 Parsi candidate; ^lIncluding 01 DP candidate; * In-service candidate; [#]Sponsored candidate

Students Information

Summary of Students Admitted during AY 2021-22

Degree	Year	Gender	Gujarat							ICAR+ Sponsor	Foreign	Total
			Gen	SEBC	SC	ST	CBSE	EWS	Total+ Inservice			
B.Sc. (Hons.) Agri.	1	Male	21	20	04	05	02	08	60	10	-	70
		Female	15	06	03	10	02	06	42	06	-	48
	2	Male	49	19	04	10	04	11	97	10	-	107
		Female	06	10	02	12	-	02	32	05	-	37
	3	Male	45	25	06	09	03	10	98	09	-	107
		Female	12	07	01	08	04	03	35	11*	-	46
	4	Male	43	24	06	04	05	01	83	13	-	96
		Female	13	04	0	13	01	-	31	06	-	37
		Sub total	204	115	26	71	21	41	478	70	-	548

M.Sc. (Agri)	1	Male	19	15	03	02		11	50	14+02	-	66
		Female	19	04	02	09		01	35	14	-	49
	2	Male	29	14	01	03		10	57	17	02	76
		Female	15	10	03	08		03	39	09	-	48
		Sub total	82	43	9	22	0	25	181	56	02	239
Ph.D.	1	Male	07	03	00	01		02	13+03	03+05	-	24
		Female	05	01	01	01		01	9+01	03	-	13
	2	Male	11	03	01	02		02	19+03	02+08	-	32
		Female	06	01	00	00		01	8+01	04+02	-	15
	3	Male	03	03	02	02		00	10+21	00+04	-	35
		Female	05	01	00	01		00	07	02+04	-	13
		Sub total	37	12	4	7	0	06	66+29	14+23	-	132
Total			323	170	39	100	21	72	725+29	140+23	02	919

Summary of passed out students during AY 2021-22

Gender	Distribution of students in different classes				Total
	First with Distinction	First class	Second class	Passed class	
Under Graduate					
Male	55	40	01	-	96
Female	24	12	01	-	37
Total	79	52	02	-	133
Post Graduate level - M.Sc. (Agri)					
Male	50	25	02	00	77
Female	41	12	01	00	54
Total	91	37	03	00	131
Post Graduate level - Ph. D.					
Male	12	06	00	00	18
Female	06	01	00	00	07
Total	18	07	00	00	25

Student's Fellowship during AY 2021-22

Name of the fellowship	Under-graduate		Masters		Doctorate		Total
	No. of Students		No. of Students		No. of Students		
	Male	Female	Male	Female	Male	Female	
NTS-UG	35	25	-	-	-	-	60
NTS-PG	-	-	24	16	-	-	40
ICAR-JRF	-	-	05	06	-	-	11
ICAR-SRF	-	-	-	-	01	04	05
STUDENT READY	96	37	-	-	-	-	133
INSPIRE	-	-	-	-	-	01	01
NAU PG fellowship	-	-	01	04	-	-	05
NAU Girls meritorious fellowship	-	15	-	-	-	-	15
NMCA POOR MERIT	07	09	-	-	-	-	16
SC fellowship	11	02	3	02	01	-	19
ST/fellowship	26	46	13	06	-	-	91
SEBC fellowship	99	25	20	10	-	-	154
Aambedkar fellowship	76	6	22	09	-	-	113
Total	350	165	88	53	02	05	663

Cut off marks for admission in the UG degree programme during AY 2021-22

Sr. No.	Categories	Minimum requirement of Marks (%) (PCB)	Cut of Marks (%)*
1	General	40	66.12
2	SC	35	62.45
3	ST	35	48.30
4	SEBC	40	67.07
5	Other Board	40	64.15
6	PH	40	-
7	Ex-Army	40	59.10
8	EWS	40	65.38

* Cumulative marks of PCB and GUJCET

Number of students qualified in ICAR JRF/SRF/NET examination or Deemed University during AY 2021-22

Name of examinations	Number of students qualified	Number of students passed out
ICAR JRF	07	--
ICAR SRF	09	--
NET	70	--

Details of students qualified in ICAR JRF examination

Sr. No.	Name of the students	Registration number	Subjects	Rank & Category
1	Ghadiya Romit Hemant	3010117029	Plant Sciences	775(Gen)
2	Gowry P J	3010117033	Plant Sciences	334(Gen)
3	Kachhdia Hemangi Kishorbhai	3010117037	Plant Sciences	1392 (Gen)/(EWS -172)
4	KhuntNikunj Kumar Govindbhai	3010117052	Plant Sciences	422(Gen)
5	Radadiya Chirag Savjibhai	3010117093	Plant Sciences	1049(Gen)
6	Rathod Rajveersinh Vinesinh	3010117095	Plant Sciences	1263(Gen)
7	Ajay Ninama	3010117001	Plant Physiology	171(Gen)/(ST-5)

Details of students qualified in ICAR SRF examination

Sr. No.	Name of the students	Registration number	Subjects	Rank & Category
1	Bagadiya Parth Ghanshyambhai	2010119006	Genetics and Plant Breeding	345(Gen) 105 (OBC)
2	Bandaru Sriram Kumar	2010119008	Genetics and Plant Breeding	172(Gen) 63 (OBC)
3	Himansuman	2010119036	Genetics and Plant Breeding	116(Gen) 41 (OBC)
4	KyadaAmitkumar Dilipbhai	2010119051	Genetics and Plant Breeding	3 (Gen) 1 (EWS)
5	MuluguJwala Pranti	2010119059	Genetics and Plant Breeding	47 (Gen)
6	Patel Dhruvil Parsotambhai	2010119077	Genetics and Plant Breeding	214 (Gen) 32 (EWS)

7	Prajapati Maulikkumar Rameshbhai	2010119103	Genetics and Plant Breeding	76 (Gen) 25 (OBC)
8	Sathuri Prashanth	2010119112	Genetics and Plant Breeding	475 (Gen) 72 (SC)
9	Sushmitha U S	2010119119	Genetics and Plant Breeding	24 (Gen) 9 (OBC)

Details of students qualified National Eligibility Test (NET) Examination

Sr. No.	Name of the students	Reg. No.	Subjects
1	Patel Upasana J.	1010119030	Agronomy
2	Vaja Rajdip	1010120036	Agronomy
3	KotadiyaPrajay Babubhai	1010120012	Agronomy
4	Patel Rutul Sureshbhai	1010119027	Agronomy
5	Shiyal Vikram Naranbhai	1010120030	Agronomy
6	Gamit Mitesh	1010120006	Agronomy
7	Kamani Harsh Arvindbhai	1010120009	Agronomy
8	ValaJanvi Rajnikant	1010120037	Agronomy
9	Patel Prerak Maheshbhai	1010119026	Agronomy
10	KataraAkshay Rameshbhai	1010119015	Agronomy
11	Dhwani Rajesh Bartwal	1010119010	Agronomy
12	Sumanth kumar G.V.	1010119045	Agronomy
13	Rathod Apexa M	1010119036	Agronomy
14	Patel Savankumar Narsinhbhai	1010118024	Agronomy
15	Patel Hardik Rajeshbhai	1010120020	Agronomy
16	Patel Brijeshkumar K	04-0826-2010	Agronomy
17	Parmar Valjibhai T.	1010119021	Agronomy
18	Milan More	2010118070	Agronomy
19	Priya Nagar	2010119104	Agronomy
20	Kamaliya Yuvraj Hathibhai	2010119040	Agronomy
21	Khemendra Chaudhary	2010119047	Agronomy
22	Ram Keval	2010119106	Agronomy
23	RushitaKotadiya	2010119049	Agronomy
24	Bhagora Disha Pareshbhai	2010118012	Agronomy
25	Maulik Sutariya	2010119057	Agronomy
26	Chirag Solanki	1010118003	Genetics & Plant Breeding
27	Ladumor Vaishali Laljibhai	1010118013	Genetics & Plant Breeding
28	Stuti Krishna	1010118029	Genetics & Plant Breeding
29	Megha L M	1010119018	Genetics & Plant Breeding
30	Patel Krinaben Natvarbhai	1010119024	Genetics & Plant Breeding
31	Raval Kalpesh	1010119037	Genetics & Plant Breeding
32	Sanyam Patel	1010119039	Genetics & Plant Breeding
33	Satasiya Pratik Nareshbhai	1010119040	Genetics & Plant Breeding
34	Sharma Deepak Dinesh	1010119041	Genetics & Plant Breeding
35	Ujjval Solanki	1010119047	Genetics & Plant Breeding
36	Bamji Rukhsar Cyrus	1010120002	Genetics & Plant Breeding

37	Ganvit Rakeshbhai Sureshbhai	1010120007	Genetics & Plant Breeding
38	MendaparaIsha Kishorbhai	1010120014	Genetics & Plant Breeding
39	Panchal Rajeshkumar Jagdishbhai	1010120017	Genetics & Plant Breeding
40	Patel Hardikkumar Rajeshbhai	1010120020	Genetics & Plant Breeding
41	Shridhar Ragi	1010120031	Genetics & Plant Breeding
42	UjjavalNavinbhai Patel	1010120035	Genetics & Plant Breeding
43	Akshata	2010119003	Genetics & Plant Breeding
44	Bandaru Sriram Kumar	2010119008	Genetics & Plant Breeding
45	Kyada Amitkumar Dilipbhai	2010119051	Genetics & Plant Breeding
46	MuluguJwalaPranti	2010119059	Genetics & Plant Breeding
47	Prajapati Maulikkumar Rameshbhai	2010119103	Genetics & Plant Breeding
48	Sathuri Prashanth	2010119112	Genetics & Plant Breeding
49	Sushmitha U S	2010119119	Genetics & Plant Breeding
50	Gajjar Kartikkumar Devendrabhai	2010118039	Genetics & Plant Breeding
51	Hitesh Kumar Koli	2010118047	Genetics & Plant Breeding
52	Sheetal Gupta	2010118126	Genetics & Plant Breeding
53	Shruthi K	2010118128	Genetics & Plant Breeding
54	Suchitra	2010118131	Genetics & Plant Breeding
55	Vaid Rahulkumar Ramjibhai	2010118139	Genetics & Plant Breeding
56	Acharya Vishwas Rajeshkumar	2010117001	Genetics & Plant Breeding
57	Debadatta Panda	2010117022	Genetics & Plant Breeding
58	Joshi Akshatkumar Jayendrabhai	2010117041	Genetics & Plant Breeding
59	KaldateSupriya Bhimrao	2010117045	Genetics & Plant Breeding
60	Lakshay Goyal	2010117048	Genetics & Plant Breeding
61	Senthilkumar V	2010117106	Genetics & Plant Breeding
62	Vaghela Unnatiben Umeshkumar	2010117119	Genetics & Plant Breeding
63	Tandel Vishal Bhagubhai	1010117041	Agricultural Economics
64	Mangali Ashwini	1010119016	Entomology
65	Prajapati Atul kumar Pravinbhai	1010119034	Entomology
66	Patel Zinalkumari Kanubhai	1010121032	Entomology
67	J. Komal	1010121013	Entomology
68	Padsala Gaurang Bharatbhai	2010119067	UGC NET-Adult Education
69	Chauhan Aditi Rajesh Kumar	1010119006	Soil Science
70	Satdev	2010117104	Soil Science

Placement Cell 2021-22

Degree	Total passed out students	Higher studies		Govt. Job	NGOs	Abroad	Self - Entrepreneurship	Unemployed	Total
		Gujarat	Other states						
B.Sc.	133	72	14	01	12	-	01	33	133
M.Sc.	104	31	16	09	11	01	-	36	104
Ph.D.	47	-	-	01	01	-	-	45	47
Total	284	103	30	11	24	01	01	114	284

Activities of students and faculty members at the College



Students participated in the Live Programme on “Pariksha Pe Charcha” on Apr. 7, 2021 through online

NSS activities during AY 2021-22

Sr. No.	Activities	Date/ period	No. of Volunteers
1	Dandi March as part of Aazadi ka Amrit Mahotsav	Apr. 4, 2021	75
2	4 th edition of Pariksha pe Charcha by Hon'ble PM Narendra Modi	Apr. 7, 2021	150
3	Swacchta Abhiyan for Swachhta Pakhwada Celebration	Aug. 13, 2021	138
4	Celebration of independence day	Aug. 15, 2021	48
5	Parthenium (Gajarghas) Awareness week As a Part of Swachhata Abhiyan	Aug. 21, 2021	130
6	Fit India Freedom Run 2.0 28 th August 2021	Aug. 28, 2021	169
7	Oath for Angdan (Organ Donation)	Sept. 17, 2021	190
8	Blood Donation Awareness Camp	Sept. 18, 2021	187
9	Zaverchand Meghani Geet Spardha	Sept. 22, 2021	280
10	Blood Donation Camp	Sept. 24, 2021	110
11	Dandi Marathon Run	Sept. 25, 2021	75
12	Oath for Rashtriya Ekta Diwas	Oct. 27, 2021	150
13	Thalassemia Check-up Camp	Dec. 14, 2021	108
14	Celebration of International Women's day	Mar. 9, 2022	270



NMCA celebrated Swacchta Abhiyan for Swachhta Pakhwada



Students participated in the Parthenium (Gajarghas) Awareness week as a part of Swachhata Abhiyan



Participation of students and faculty members of NMCA in the Fit India Freedom Run 2.0



Participation of students of NMCA in the Meghani Geet Spardha



Students of NMCA participated in Dandi Marathon Run



Celebration of International Women's day



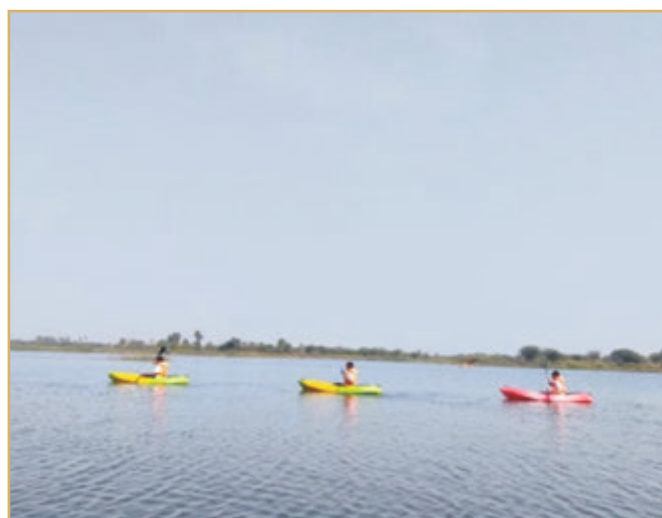
NMCA students involved in the Oath for Rashtriya Ekta Diwas



NMCA organized Thalassemia Check-up Camp for students

NCC activities during AY 2021-22

Sr. No.	Activities	Date/ period	No. of Volunteers
1	All India NCC Trekking Expedition	Oct. 9-16, 2021	2 SD
2	Kayaking	Aug. 1, 2021	8 SW & 5 SD
3	Tarini Sailing Expedition 2021	Nov. 18-27, 2021	2 SD & 1 SW
4	Tribute ToCds	Dec. 11, 2021	23 SW & 16SD
5	All India Yachting Regatta 2021	Nov. 16-24, 2021	1 SW & 1 SD
6	Indian Navy Day Celebration	Dec. 4, 2021	12 SD & 8 SW
7	Special Yachting Camp 2021	Dec. 8-15, 2021	1 SW & 1 SD
8	Defence Secretary Visit	Dec. 28, 2021	1 SW & 1 SD
9	Yep 2022-23 Selection	Jan. 4, 2022	1 SD & 1 SW



NCC NAVY cadets of NMCA participated in the “All India Yachting Regatta” on Nov. 16-24, 2021 and celebrating “Indian Navy Day” on Dec. 4, 2021

Ongoing Educational/Research/ Extension projects funded by Govt. of Gujarat and External agencies

Sr. No.	Name of the projects	Budget Head	Funding agency	Name of the Department
1	Research on Tillage Technology for crops of South Gujarat	B.H.12936	GoG	Ag. Engg. Farm
2	Establishment of Agro Metrological cell at agriculture college	B.H.12927	GoG	NMCA
3	GKMS (<i>Gramin Krishi Mausam Sewa</i>)	B.H.18005-1	IMD	AMFU-Navsari
4	FASL (Forecasting of Agricultural Output using Space Agrometeorology and Land based observations)	B.H.18993	IMD	AMFU-Navsari
5	Low cost biofortification kit: A sustainable technology tool for nutrition, yield and income security of farmers	B.H.18214	DST, New Delhi	Agronomy
6	Instructional Farm	B.H.6119	GoG	Instructional Farm
7	Research in weed control in Agronomy at Navsari	B.H. 12929-02	GoG	Instructional Farm

8	Establishment of Forage Research Station at Navsari	B.H. 12038	GoG	Instructional Farm
9	Integrated Farming Systems	B.H.2040	ICAR, New Delhi	Instructional Farm,
10	Low cost biofortification kit: A sustainable technology tool for nutrition, yield and income security of farmers	B.H. 18214	DST, New Delhi	Instructional Farm,
11	Strengthening of Extension Wing	B.H. 12145	GoG	NMCA
12	Student READY programme	B.H. 12968	ICAR	NMCA
13	Strengthening Research on Sericulture and Lac culture	B.H. 12011	GoG	Entomology
14	Strengthening Research in Bio-control of Crop Pests at Navsari	B.H. 12947	GoG	Entomology
15	Scheme on Forecasting Weather, Pest and disease at Navsari	B.H. 12939	GoG	Entomology
16	All India network project on Agricultural Acarology.	B.H. 02092	ICAR	Entomology
17	TSP-Acarology.	B.H. 02092/0A	ICAR	Entomology
18	All India Coordinated Research Project on Honey bees & Pollinators	B.H. 303/2083/00	ICAR	Entomology
19	Evaluating impact of Neonicotinoids on Pollinators	B.H. 2099	ICAR	Entomology
20	NAHEP Component 2A, Investments in ICAR Leadership in Agricultural Higher Education-II.	B.H. 2127	ICAR	Entomology
21	To evaluate the bio efficacy of PII 8007 (20%SC) against insect pests of sugarcane.	B.H. 18152	Other agency	Entomology
22	To evaluate the bio efficacy of PIM 014 (20%WP) against Chilli mite	B.H. 18153	Other agency	Entomology
23	To evaluate the bio efficacy of PII 070 (70% WG) against pest complex of Brinjal.	B.H. 18169	Other agency	Entomology
24	To evaluate the bio efficacy of PII 301 (10%SC) against DBM, phytotoxicity effect on natural enemies and yield of Cabbage.	B.H. 18185	Other agency	Entomology
25	To evaluate the bio efficacy of metaldehyde 2.5% Dry Pellets against snail in cabbage.	B.H. 303/18213/0 0	Other agency	Entomology
26	Establishment of Secondary Agriculture Unit for Skill Development in Students and Farmers' under National Agricultural Higher Education Project on Centre for Advance Agricultural Science and Technology project	B.H.2108	ICAR-World Bank	FQTL

Educational/Infrastructural Facilities

The college has five lecture halls and one seminar hall with LCD projectors which are making conducive teaching and learning situation for the undergraduate as well as postgraduate students'. Further, all departments possess spacious laboratories with well-equipped latest equipments and postgraduate lecture hall. The Central Instrumentation Laboratory is located in the college and equipped with sophisticated instruments like X-ray, UV-vix-Spectrophotometer, Nitrogen Analyzer, Image Analyzer, L.C. pro, HPLC, NMR, FTNIR, Blood Analyzer, Deep freeze upto -80°C, Microwave Digester, Super Critical Extractor, Atomic Absorption Spectrophotometer, etc. The college has well equipped bio-fertilizer and bio-pesticide laboratory consists of isolation, inoculation, quality control, fermentation chamber and production rooms with well sprinted instruments viz., Automatic bottle filling machine, fomenters, BIOLOG, PCR, Gel DOC, etc. One computer laboratory has been developed with various software to facilitate the under as well as postgraduate students of the college. The institute is very well supported with research framework like Food Quality Testing Laboratory, Biofertilizer and Biopesticide laboratory, Biocontrol, residue Analysis, Plant Tissue culture laboratory, soil and water analysis laboratories for carrying out quality research. Two ICAR sponsored Experiential Learning Unit has been working on Plant Tissue Culture Technology and Bio-fertilizers while, four Hands on Training (HoT) units sponsored by the GoG have also been developed to provide skill-oriented exposure to the students of undergraduate. These are providing exposure among the students on Bio-fertilizer, Seed production, Bio-agent and Commercial Sericulture, Commercial Horticulture and Soil-Water-Plant testing, and Seed testing. The 20 ha Instructional Farm is earmarked to provide practical exposure to the students and the profit of their production is distributed among the students. The college possesses six well managed hostels viz., Navoday and Navneet hostels for UG students, two PG hostels and two girls' hostels. All hostels are located within the NAU premises.

Experiential Learning Unit

Title of ELU	ELU on Plant tissue culture
Year of establishment	2011
Name of Manager	Dr. Ajay V. Narwade
Activities	Hands on training on plant tissue culture for banana variety G-9, sugarcane and bamboo plant. In this process, explants are selected and it is sterilized further then media is prepared. After media preparation, the explants are inoculated and it is multicultured. Further, rooting and hardening is done. Other related activities of plant tissue culture techniques also performed.
No. Students Beneficiaries	45
Amount earned per student	Rs. 67.50





Students involved in tissue culture activities for producing banana plants


Title of ELU	ELU on biofertilizers
Year of establishment	2008
Name of Manager	Dr. Lalit Mahatma
Activities	In this ELU, procedure for the establishment of Biofertilizers Production Unit and minimum facilities required for the commercial production of Biofertilizers are discussed among students. License procedure for the production and marketing of Biofertilizers through different agencies. Formulation of different Biofertilizers and mass production technology of different Biofertilizers viz., <i>Acetobacter</i> , <i>Azotobacter</i> , <i>Rhizobium</i> for the different crops, <i>Azospirillum</i> , Phosphate Solubilizing Bacteria, Potash Mobilizing Bacteria and <i>Pseudomonas</i> . Quality analysis of different Biofertilizers formulations. Efficacy analysis in different conditions. Cost benefits analysis. Packaging and marketing of different Biofertilizers.
No. Students Beneficiaries	37
Amount earned per student	Rs. 2224.00



Students involved in the various activities including inoculation work for production of Biofertilizers

Title of HoT	Seed production technology	
Year of establishment	2020	
Name of Manager	Dr. Nitin N. Gudadhe	
Activities	Seed production of maize crop	
No. Students Beneficiaries	36	
Title of HoT	Production technology for bio-agents	
Year of establishment	2020	
Name of Manager	Dr. Sachin R. Patel	
Activities	Production of predators and parasitoids. Production and selling of trichocards and crysocard.	
No. Students Beneficiaries	78	

Title of HoT	ELP 8.8 Commercial Horticulture	
Year of establishment	2020	
Name of Manager	Prof. Sheetal Jadhav	
Activities	Identification of horticultural plants, its propagation, methods of sowing, transplanting and cultivation along with post-harvest management, value addition and marketing tactics.	
No. Students Beneficiaries	45	

Title of HoT	Soil, Water, Plant and Seed Testing	
Year of establishment	2020	
Name of Manager	Dr. V. J. Zinzala	
Activities	This module is designed to develop the technical expertise, entrepreneurial skill and competence in managing analytical laboratory among students. Students are trained for soil analysis as well as seed testing. The course also includes field visits to observe soil degradation sites and sampling facilities.	
No. Students Beneficiaries	44	

Research publications

SN	Details of Publications	NAAS rating
1	Tak, Vibha, Pandey, Vyas, and Parmar, P.K. (2021). Effect of date of sowing and varieties on yield of <i>kharif</i> Bt-cotton in middle gujaratagro-climatic region. <i>Int. J. Curr.Microbiol.App.Sci</i> , 10 (01): 2217-2222.	5.38
2	Kumari, P., Sharma, P.K., Kumari, R., Singh, U.P. (2021). Effect of tillage and crop establishment practices on performance of rice under rice wheat cropping system. <i>Annals of Plant and Soil Research</i> , 23 (2): 170-174.	5.22
3	Kumari, R., Kumari, P., Vadaviya, O.U., Singh, M., Sharma, V.K., Pandey, P.R., Sharma, B. (2022). Influence of land levelling and planting pattern on productivity, water use efficiency and economic of sorghum (<i>Sorghum bicolor</i>). <i>Annals of Plant and Soil Research</i> , 24 (1): 177-181.	5.22
4	Nandgude, S.B.,Salunkhe, S.S.,Shinde, V.T., Singh, M., and Sahu, R.K. (2021).Comparison of the erosion prediction models- A case study of coastal region. <i>Journal of Soil and Water Conservation</i> , 20 (4): 386-394.	5.20
5	Joshi, Neha, Usadadia, V.P, Barkha and Patil, K.B. (2020). Effect of land configuration, irrigation levels and nipping on growth, yield and economics of Chickpea under mild winder of South Gujarat. <i>International Journal of Chemicals Studies</i> , 8 (6): 263-266.	5.31

6	Joshi, Neha, Usadadia V.P., Barkha and Tajane, D. (2021). Influence of land configuration, irrigation levels and nipping on growth and yield of Chickpea. <i>Indian Journal of Pure & Applied Biosciences</i> , 8 (6):82-87.	5.40
7	Shukla, K.S., Desai, C.S. and Usadadia, V.P. (2021). Strategies for Doubling Income of Farmers. <i>Agriculture and Environment</i> , 1 (2):338-345.	4.00
8	Patel, P.B., Usadadia, V.P. and Desai, C.S. (2021). Incidence of mango hoppers <i>Idioscopus nitidulus</i> Walker in high density mango plantation under south Gujarat conditions. <i>International Journal of Chemical Studies</i> , 8 (4): 1509-1512.	5.31
9	Shukla, K.S., Desai, C.S. and Usadadia, V.P. (2021). Wealth from Waste: a profitable project for banana farmers. <i>Agriculture & Environment</i> , 1 (1): 84-86.	4.00
10	Patel, P.B., Desai, C.S. and Usadadia, V.P. (2021). Population dynamics of mango trips in high density mango plantation under south Gujarat conditions. <i>Journal of Plant Health Issues</i> , 1 (1): 29-32.	-
11	Gudadhe, N.N., Thanki, J.D., Pankhaniya, R.M. and Usadadia V.P. (2021) Feasibility of late transplanted summer pearl millet for prolonged Rabi season with integrated nitrogen management under Coastal Region. <i>Maydica</i> , 65 (2): 1-8.	6.54
12	Patel, K.M. Pankhaniya, R.M. and Parmar, S.K. (2021). Effect of integrated nutrient management on growth, yield and economics in Fodder Cowpea. <i>Multilogic in Science</i> , 10 (34):1318-1320.	4.51
13	Patel, K.M. Pankhaniya, R.M. and Parmar, S.K. (2021). Influence of integrated nutrient management on quality, nutrient uptake and soil status in Fodder Cowpea. <i>Journal of Pharmacognosy and Phytochemistry</i> , 9 (4):478-480.	5.21
14	Joshi, M.P., Pankhaniya, R.M. and Parmar, S.K. (2021). Effect of levels and scheduling of nitrogen on economic, quality, nutrient content, uptake and soil status of Pearl Millet. <i>International Journal of Chemical Studies</i> , 8 (6): 128-131.	5.31
15	Tandel, B.B., Pankhaniya, R.M. and Thanki, J.D. (2021). Response of Fodder Sorghum (<i>Sorghum bicolor</i> L.) varieties to biofertilizer and nitrogen levels. <i>Journal of Pharmacognosy and Phytochemistry</i> , 6 (4): 49-52.	5.21
16	Parmar, S.K. Thanki, J.D., Tandel, B.B. and Pankhaniya, R.M. (2021). Effect of nitrogen phosphorus and sulphur application on yield, quality, uptake and economics of Linseed. (<i>Linum usitatissimum</i> L.). <i>International Journal of Chemical Studies</i> , 8 (5),1956-1960.	5.31
17	Gudadhe, N.N., Imade, S. and Thanki, J.D. (2021). Effect of integrated nutrient management on rice-green gram cropping sequence. <i>Legume Research</i> , 1-7 . (10.1 8805/LR-4307).	6.59
18	Vadodariya, P., Abuj B., Karmakar, N., Gudadhe, N.N., Faldu, P., Narvade, A., Kaur, B. and Debnath, M.K. (2021). Comparative biochemical study of different lablab <i>Purpureus</i> L. groups under processing. <i>Legume Research</i> , 1-10 . (10.1 8805/LR-4331)	6.59
19	Parmar, S.K., Thanki, J.D., Gudadhe, N.N., Pisal, R.R. and Naik J.R. (2021). Effect of different summer green manures on growth and yield of succeeding kharif rice under integrated nutrient management. <i>Journal of Pharmacognosy and Phytochemistry</i> , 6 :128-130.	5.21

20	Bavalgave, V.G., Rathod, M., Dudhat, M.S. and Tandel, B.B. (2021). Yield and uptake of sweet corn (<i>Zeamays L. Saccharata</i>) as influenced by spacing and inm practices under south Gujarat condition. <i>International Journal of Chemical Studies</i> , 9 (1): 706-708.	5.31
21	Patel, M.M., Meena, L.K., Arvadiya, L.K., Patel, D.D. and Zinzala, M.J.(2021). Comparative study on improved organic practices of summer green gram (<i>Vigna radiata L.</i>) at Bharuch district of Gujarat. <i>International Journal of Chemical Studies</i> , 9 (1): 2368-2370.	5.31
22	Pradhan, S.K., Kumar, B., Banakara, K.B., Singh, R.R., Kharadi, V.B. and Chaudhary, S.S. (2021). Effect of boron supplementation on bone mineralization and antioxidant status in broiler Chicken. <i>Asian Journal of Dairy and Food Research</i> , 40 (3): 309-314.	5.75
23	Pradhan, S.K., Deshpande, S.B., Singh, R.R. and Dabas, V.S. (2021). Effect of active dry yeast supplementation on nutrient digestibility, rumen metabolites and performances of Surti goat kids. <i>Indian Journal of Animal Nutrition</i> , 38 (1): 23-30.	5.66
24	Raval, K.G., R.K. Patel, R.J. Panchal, K.G. Modha and G.D. Vadodariya (2021). Genetic diversity assessment in mango ginger (<i>Curcuma amadaRoxb.</i>) germplasm based on SSR and RAPD molecular markers. <i>The Pharma Innovation Journal</i> , 10 (11): 65-71.	5.23
25	Raval, K., R.K. Patel, R. Panchal and K.G. Modha (2021). Morpho-biochemical characterization to assess the genetic diversity, correlation and path analysis in mango ginger (<i>Curcuma amadaRoxb.</i>). <i>The Pharma Innovation Journal</i> , 11 (2): 1371-1376.	5.23
26	Raval, K., R.K. Patel, R. Panchal and K.G. Modha (2021). Genetic variability, correlation and path analysis in mango ginger (<i>Curcuma amadaRoxb.</i>). <i>Electronic Journal of Plant Breeding</i> , 13 (1):235-242.	5.14
27	Langhi, A.M., S.R. Patel, A.V. Narwade, R.K. Patel, K.N. Chaudhari and H.N. Chhatrola (2021). Studies on genotype x environment interactions of sunflower hybrids (<i>Helianthus annuus L.</i>). <i>Journal of Oilseeds Research</i> , 38 (2): 211-221.	4.59
28	Shruthi, K., D.H. Patel, Rajkumar, B.K., R.K. Patel and K.G. Modha (2021). Analysis of genetic diversity in cotton genotypes using DNA marker. <i>The Pharma Innovation Journal</i> , 10 (11): 30-34.	5.23
29	SupriyaKaldate, A. Patel, K. Modha, V. Parekh, Bhushan, K., G. Vadodariya and R. Patel (2021). Allelic characterization and protein structure analysis reveals the involvement of splice site mutation for growth habit differences in <i>Lablab purpureus</i> (L.) Sweet. <i>Journal of Genetic Engineering and Biotechnology</i> , 19 :34.	-
30	Arpit Bhuriya, V.Ramtekey, D.Borwal, K.Modha, V. Parekh, Bhushan, K., G.Vadodariya, R. Patel and D. Chauhan (2021). Tagging of Terminal Flowering Locus (<i>TFL</i>) homologue responsible for growth habit in Indian bean, <i>Lablab purpureus</i> (L.) Sweet]. <i>Indian Journal of Genetics and Plant Breeding</i> , 81 (3): 450-456.	6.55
31	Lakshay, G., C.G. Intwala, K.G. Modha and V.R. Acharya (2021). Association and diversity analysis for yield attributing traits in advance generation of green gram (<i>Vigna radiata</i> (L.) Wilczek). <i>International Journal of Chemical Studies</i> , 9 (1): 1934-1939.	5.31

32		5.31
33	Priya Patel, R.K. Patel, K.G. Modha, Thokchom, J.S. and M. Singh (2021). Path and correlation coefficient analysis for fourteen different morphological characters in Turmeric (<i>Curcuma longa</i> L.). <i>International Journal of Chemical Studies</i> , 9 (6): 52-57.	5.21
34	Priya Patel, R.K. Patel, K.G. Modha, Thokchom, J.S., M. Singh (2021). Genetic variability and molecular diversity analysis in turmeric (<i>Curcuma longa</i> L.). <i>Indian Journal of Agricultural Research</i> , 1-7 . DOI: 10.18805/IJARE.A-5800.	-
35	Vinita Ramtekey, S. Cherukuri, K.G. Modha, Ashutosh Kumar, U.B.Kethineni, G. Pal, A.N. Singh and Sanjay Kumar (2021). Extraction, characterization, quantification, and application of volatile aromatic compounds from Asian rice cultivars. <i>Reviews in Analytical Chemistry</i> , 40 : 272-292.	5.23
36	Patel, S.N., V.P. Patel, K.G. Modha and V.B. Parekh (2021). Rice hybrid purity testing at molecular level for development of F ₂ mapping population. <i>The Pharma Innovation Journal</i> , 10 (8): 1358-1362.	5.23
37	Patel, S.N., V.P. Patel, K.G. Modha, V.B. Parekh and R. Patel (2021). F ₂ variability study and phylogenetic analysis of <i>sd1</i> gene in Rice. <i>The Pharma Innovation Journal</i> , 10 (9): 2041-2046.	5.23
38	Stuti Krishna, M. Makwana, K.Modha and R. Patel (2021). Screening of Indian bean germplasm for photoperiod responsive flowering and growth habit under natural condition. <i>The Pharma Innovation Journal</i> , 10 (11): 964-967.	5.23
39	Ladumor, V.L., H.E. Patil and K.G. Modha (2021). Genetic diversity in finger millet [<i>Eleusinecoracana</i> (L.) Gaertn] using principal component analysis. <i>The Pharma Innovation Journal</i> , 10 (9): 1827-1831.	-
40	Stuti Krishna, K.Modha, V. Parekh, R. Patel and D. Chauhan (2022). Phylogenetic analysis of Phytochrome A gene from <i>Lablab purpureus</i> (L.) Sweet. <i>Journal of Genetic Engineering and Biotechnology</i> , 20 :9	5.14
41	Naghera, Y.V., Vadodariya, K.V., Patel, R.K., Modha, K.G., Vadodariya, G.D., Vavdiya, P.A., Mungra, K.S. and Patel, A.D. (2021). Genetic analysis of seed cotton yield and its contributing traits in interspecific crosses of diploid cotton (<i>G. herbaceum</i> x <i>G. arboreum</i>). <i>Electronic Journal of Plant Breeding</i> , 12 (2), 563-566.	5.31
42	Mungra, K.S., Chauhan, D.A., Vavdia, P.A., Naghera, Y.V. and Vadodariya, G.D. (2022). Genetic analysis for yield and its components in Cowpea (<i>Vigna unguiculata</i> (L.) Walp.). <i>The Pharma Innovation Journal</i> , 11 (2): 1469-1472.	5.23
43	Deepa B. Hiremathand J.J. Makadia (2021). Growth and instability of area under drip method of irrigation in South Gujarat:A district wise analysis. <i>International Journal of Agricultural Sciences</i> , 17 (1): 9-14.	4.73
44	Naima Shaikh, R. Sukla and J.J. Makadia (2021). Customer satisfaction and value creation through supply chain management in organized <i>vis-à-vis</i> unorganized retail for fruits and vegetables in South Gujarat. <i>International Journal of Global Science Research</i> , 8 (2):1544-1551.	2.77
45	Patel, D.A., Thumar, V.M. and Singh, N. (2021). Marketing channels, marketing cost, market margin and price spread in Small Millets in Dang and Valsad districts of South Gujarat. <i>International Journal of Agricultural Sciences</i> , 13 (5): 10756-10759.	4.73

46		4.73
47	Tandel, V.B. and Singh, N.(2021). Growth and its projection of Shrimp Farming in Gujarat. <i>International Journal of Agricultural Sciences</i> , 13 (9): 10821-10824	5.25
48	Davaria, P.J, Ghoghari, P.D. and Shukla, A. (2021). Reaction of rice varieties against sheath mite, <i>Stenotarsonemus spinki</i> Smiley. <i>J.Exp.Zool. India</i> , 24 (2): 1387-1390.	5.38
49	Desai, A.V., Siddhapara, M.R., Birari, V.V. and Hirapara, I.M. (2021). Comparative parasitic potential of <i>Goniozus nephantidis</i> (Muesbeck) on <i>Galleria mellonella</i> and <i>Khambhu, C.V., Pandya, H.V., Patel, K.G. and Patel, S.R. (2021). Biology of the stingless bee, <i>Corydora cephalonica</i>(Stainton). <i>International Journal of Current Microbiology and Applied Sciences</i> 10(1): 1068-1074.</i>	5.23
50		5.53
51	Mohapatra, B. and Shinde, C.U. (2021). Contact toxicity of different insecticides against egg parasitoid, <i>Trichogramma japonicum</i> Ashmead under laboratory condition. <i>Journal of Entomology and Zoology Studies</i> , 9 (1): 134-139.	5.23
52	Mohapatra, B. and Shinde, C.U. (2021). Relative toxicity of various insecticides against biological attributes of egg parasitoid, <i>Trichogramma japonicum</i> Ashmead. <i>The Pharma Innovation Journal</i> , 10 (8): 1049-1055.	5.53
53	Padhyar, D.H. and Patel, S.R. (2021). Floral biology of pollinator fauna in bottle gourd in South Gujarat. <i>Journal of Entomology and Zoology Studies</i> , 9 (2): 435-438.	4.67
54	Pandit, P., Sharma, V.K., Patel, S.R., Prajapati, J. and Chaudhari, S. (2021). Quality evaluation of bitter melon (<i>Momordica charantia</i>) treated with hot water treatment. <i>Frontiers in Crop Improvement</i> , 9 (5): 2331-2341.	-
55	Patel, T. and Shukla, A. (2021). Seasonal incidence and impact of some abiotic factors on thrips, <i>Scirtothrips dorsalis</i> Hood (Thysanoptera: Thripidae) infesting mango cv Amrapali. <i>Uttar Pradesh Journal of Zoology</i> , 42 (18): 48-51.	5.25
56	Patel, T. and Shukla, A. (2021). Seasonal incidence and impact of some abiotic factors on thrips, <i>Scirtothrips dorsalis</i> Hood (Thysanoptera: Thripidae) infesting mango cv Amrapali. <i>Uttar Pradesh Journal of Zoology</i> , 42 (18): 48-51.	4.21
57	Patel, T., Shukla, A. and Patel, S.R. (2021). Bio-efficacy of chemical and bio-rational insecticides against hopper, <i>Idioscopus uditulud</i> infesting mango. <i>Ann. Pl. Protec. Sci.</i> , 29 (2): 88-92.	4.11
58	Siddhapara, M.R., Patel, K.M. and Patel, A.G. (2021). Biology and morphometrics of fall army worm <i>Spodoptera frugiperda</i> (J. E. Smith) on maize. <i>Indian Journal of Entomology</i> , 83 (4): 627-629.	5.08
59	Birari, V.V. and Siddhapara, M.R. (2022). Role of silk gland and silk productivity of Eri silkworm. <i>The Pharma Innovation Journal</i> , 11 (9): 2361-2362.	5.23
60	Kavad, N.K., Patel, K.A., Radadiya, N.V., Patel, K.M. and Patil, V.A. (2022). Population dynamics of rice leaf folder, <i>Cnaphalocrocis medinalis</i> Guenee (Pylalidae: Lepidoptera) on rice in relation to weather parameters. <i>The Pharma Innovation Journal</i> , 11 (9): 628-633.	5.23

61		5.23
62	Kavad, N.K., Patel, K.A., Radadiya, N.V., Patel, K.M. and Ghoghari, P.D. (2022). Influence of different planting periods on damage of rice leaf folder, <i>Cnaphalocrocismedinalis</i> (Pyralidae: Lepidoptera) Guenee. <i>The Pharma Innovation Journal</i> , 11 (9): 1526-1531.	5.25
63	Kumbhani, M.B. and Shinde, C.U. (2022). Bio-efficacy of newer insecticides against niger aphid, <i>Uroleuconcompositae</i> (Theobald) (Hemiptera: Aphididae) on niger. <i>Journal of Experimental Zoology India</i> , 25 (1): 2495-2503.	5.23
64	Kumbhani, M.B. and Shinde, C.U. (2022). Population dynamics of Niger aphid, <i>Uroleuconcompositae</i> (Theobald) (Hemiptera: Aphididae). <i>The Pharma Innovation Journal</i> , 11 (8): 1160-1164.	5.25
65	Patel, K.M. (2022). Biodiversity of soil oribatid mite (Acari: Oribatidae) in different agro ecosystems. <i>Journal of Experimental Zoology India</i> , 25 (1):703-709.	5.23
66	Patel, K.M., Shukla, A., Patel, A.T. and Patel, S.R. (2022). Survey of Sapota fruit mite, <i>Tuckerellakumaonensis</i> Gupta (Tuckerellidae: Acari) and it's predatory mite, <i>Octobdellodes</i> sp. in South Gujarat. <i>The Pharma Innovation Journal</i> , 11 (8): 1160-	5.23
67	1164	7.10
68	Patel, K.M., Shukla, A., Patel, K.B. and Shinde, C.U. (2022). Population dynamics of sapota fruit mite, <i>Tuckerellakumaonensis</i> Gupta (Tuckerellidae: Acari) with relation to its predatory mite, <i>Octobdellodes</i> sp. in South Gujarat. <i>The Pharma Innovation Journal</i> , 11 (3): 1191-1192.	5.23
69	Jadav, J.K., Timbadia, C.K., Chaudhary, A.P. and Chaudhary, K.L. (2022). Knowledge level of package and practices of paddy among the FRAs beneficial tribal farmers of South Gujarat. <i>The Pharma Innovation Journal</i> , 11 (3): 1191-1192.	5.23
70	Chaudhary, M.V., Sharma, O.P. and Chaudhary, K.L. (2021). Socio-economic profile of cooperative society members and non- members in South Gujarat. <i>Int. J. Curr. Microbiol. App. Sci.</i> , 10 (02): 27-31.	5.38
71	Bana, J.K., J.S. Choudhary, Sushil Kumar, Ghoghari, P.D., Kalaria, G.B., Desai, H.R., Patil, S.J. and P. Patil (2021). Seasonal time series forewarning model for population dynamics of mango hopper (Hemiptera: Cicadellidae) in humid agro-climatic conditions. <i>Int. J. Pest Mangt.</i> , 67 (4):1-12.	7.91
72	Der, M.L., Patil, S.J., Patel, N.B. and Tandel, B.M. (2021). Effect of different month of ratooning with bunch spray of GA ₃ and BA on quality of banana (<i>Musa paradisiaca</i> L.) cv. Grand Nain. <i>The Pharma Inn. J.</i> , 10 (10): 960-962.	5.23
73	Jinalben, J Tandel, Patil, S.J., Sanjeev Kumar, Gaikwad, S.S. and Tandel, B.M. (2021). Effect of defoliation and storage of scion stick on growth of softwood graft of mango var. Sonpari. <i>Int. J. Chem. Studies</i> , 9 (4): 308-310.	5.31
74	Pawar, R.D., Chawla, S.L., Patil, S.J., Patil, S. and Gurjar, R.A. (2021). Physiological studies in chrysanthemum genotype. <i>J. Ornm. Hort.</i> , 24 (1): 22-27.	3.48

75		5.05
76	Bana, J. K., Ghoghari, P.D., Kalaria, G.B., Saxena, S.P., Sharma, H., Singh, P. and Patil, S.J. (2021). Survey and surveillance of pollinators in mango ecosystem. <i>Pest Management Horticultural Ecosystem</i> , 27 (1): 11-15.	5.38
77	Raghavendra, H.R., Desai, C., Mayani, J. and Patil, S. (2021). Standardization of banana fruit (<i>Musa paradisiaca</i> L.) pseudostem central core blended jam. <i>Int. J. Curr. Microbiol. App. Sci.</i> , 10(02): 1-15.	5.23
78	Sushitha, M.B., Desai, C., Mayani, J., Patil, S. and Raghavendra, H.R. (2021). Effect of blending proportion and storage on sensory parameters of blended juice using banana pseudostem sap with noni, <i>Aloe vera</i> and guava. <i>The Pharma Inn. J.</i> , 10(5): 568-573.	4.94
79	Tandel, Y.N., Mantri, A.S., Patel, D.P., Saravaiya, S.N., Bardhan, K., Jadhav, S. K. and Patel, N.M. (2022). Effect of saline water on mineral composition of <i>Manilkara hexandra</i> L. seedlings. <i>J. Soil Salinity and Water Quality</i> , 14(1): 70-75.	-
80	Patel, R., Suthar, H., Modi, K., Patel, P., and Khunt, M. (2022). Growth parameters of <i>Pleurotus ostreatus</i> (Jacq. Fr.) Kumm cultivation using Paddy Straw as a Substrate. <i>Plantae Scientia</i> , 5(1): 12-16.	4.57
81	Dholariya, H.P., S. Tripathi, N.M. Thesiya and Navneet Kumar (2021). Effect of solid and liquid organics on growth, yield and economics of finger millet [<i>Eleusine coracana</i> (L.) Gaertn.] grown under rainfed condition of south Gujarat. <i>Journal of Plant Development Sciences</i> , 13(8): 615.	4.57
82	Satdev, V.J., Verma, A., Kumar, R., Kumari, S. and Lata, S. (2021). Synthesized nano ZnO and its comparative effects with ZnO and heptahydrate ZnSO ₄ on sweet corn (<i>Zea mays</i> L. saccharata). <i>The Pharma Innovation Journal</i> , 10(10): 01-07.	5.23
83	Dholariya, H.P., S. Tripathi, Navneet Kumar and R.R. Pisal (2021). Impact of solid and liquid organic sources on content and uptake of nutrients by finger millet [<i>Eleusine coracana</i> (L.) Gaertn.] under rainfed condition of south Gujarat. <i>Journal of Plant Development Sciences</i> , 13(8): 695.	-
	Bhadrik, P., Karmakar, N., Faldut, P., Norwade, A., Desai, K., Patel, K., Debnath, M.K. and Tarafdar, J. (2022). Comparative study between nutritional compositions of processed white and yellow flesh sweet potato. <i>Journal of Culinary Science and Technology</i> , 1-22.	-

6 | College of Agriculture Bharuch

The Institute

The full-fledged College of Agriculture, Bharuch was started with multi-functional activities viz., Teaching, Research and Extension Education under Navsari Agricultural University, Navsari in 2012 with the financial support of Government of Gujarat. The mission of the college is to create and provide professionally competent Agricultural Graduates, and Post Graduates to the world of Agriculture. College also helps to provide ambience for interdisciplinary research and collaborative approaches for the development of cohesive intelligence at large having wide ranging applications. This college is offering B.Sc. (Hons) Agriculture and M.Sc.



Agriculture programme in the subjects of Agronomy, Genetics & Plant Breeding, Entomology, Plant Pathology, Extension Education, and Soil Science and Agril. Chemistry. There is shortfall of Agricultural graduates in the agro based industries and allied sectors viz., banks and other government and non-government organizations.

Faculty information

Sr. No.	Name of the Post	Sanctioned posts	Filled posts	Composition of filled posts							
				Educational qualification				Domicile state		Gender	
				Master		Doctoral		Gujarat	Out states	Male	Female
				Gujarat	Out states	Gujarat	Out states				
1	Principal	1	1	-	-	1	-	1	-	1	-
2	Professors	4	2	-	-	1	1	1	1	2	-
3	Associate Professors	11	11	2	-	8	1	10	1	11	-
4	Assistant Professors	16	16	3	1	6	6	9	7	10	6
Total		32	30	5	1	16	8	21	9	24	6

List of Departments

1	Agronomy & Agro-Meteorology	7	Agril. Statistics
2	Agril. Chemistry & Soil Science	8	Agril. Economics
3	Horticulture	9	Agril. Extension Education
4	Genetics & Plant Breeding	10	Agricultural Engineering
5	Agricultural Entomology	11	Animal Science
6	Plant Pathology	12	Physical Education

Academic Programmes offered

Degree Programme	Duration	Total Credits
B. Sc. (Hons.) Agriculture	8 Semesters	186
M.Sc. (Agri)	4 Semesters	60

Under Graduate Credit details (As per V Deans' committee recommendations)

Semesters	Number of Courses	Theory + Practical = Total Credits
First	11	14+08=22
Second	11	17+08=25
Third	10	15+09=24
Fourth	12	15+10=25
Fifth	11	14+10=24
Sixth	11	14+11=25
Seventh	02 (RAWE+ ET 7.1)	0+22=22
Eight	01 (ELP-HOT)	0+20=20
Total		89+97=186

Post Graduates Programmes offered

Sr. No.	Disciplines of PG Programme	Masters' Degree	Doctoral Degree
1	Agronomy	Yes	No
2	Soil Science and Agricultural Chemistry	Yes	No
3	Entomology	Yes	No
4	Plant Pathology	Yes	No
5	Genetics and Plant Breeding	Yes	No
6	Extension Education	Yes	No
Total		06	--

Students Information

Summary of Students Admitted during AY 2021-22

Degree	Gender	Intake capacity	Gujarat							ICAR	Foreign	Grand Total
			Gen	SEBC	SC	ST	EWS	CBSE	Total			
B.Sc. (Hons.) Agri.	Male	77	16	06	01	04	04	00	31	03	--	34
	Female		08	05	01	03	02	02	21	01	--	22
	Total		24	11	02	07	06	02	52	04	--	56
M.Sc. (Agri)	Male	22	06	01	00	00	01	-	08	-	-	08
	Female		05	04	01	03	00	-	13	-	-	13
	Total		11	05	01	03	01	-	21	-	-	21
Grand Total		99	35	16	3	10	07	02	73	04	00	77

Summary of Students Enrolled during AY 2021-22

Degree	Year	Gender	Gujarat							ICAR	Foreign	Total	
			Gen	SEBC	SC	ST	EWS	CBSE	Total				
B.Sc. (Hons.) Agri.	1 st	Male	16	06	01	04	04	00	31	03	--	34	
		Female	08	05	01	03	02	02	21	01	--	22	
	2 nd	Male	20	13	02	04	05	00	44	01	--	45	
		Female	13	03	01	04	02	00	23	03	--	26	
	3 rd	Male	26	11	02	05	05	00	49	05	--	54	
		Female	10	02	01	03	04	00	20	05	--	25	
	4 th	Male	23	14	03	02	01	00	43	05	--	48	
		Female	07	01	03	05	-	03	19	04	--	23	
	Sub total			123	55	14	30	23	05	250	27	0	277
	M.Sc. (Agri.)	1 st	Male	06	01	00	00	01	-	08	-	-	08
Female			05	04	01	03	00	-	13	-	-	13	
2 nd		Male	10	05	01	02	02	-	20	-	-	20	
		Female	05	01	00	02	00	-	08	-	-	08	
Sub total			26	11	02	07	03	-	49	-	-	49	
Grand Total			149	66	16	37	26	5	299	27	0	326	

Summary of passed out students during AY 2021-22

Gender	Distribution of students in different classes				
	First with Distinction	First class	Second class	Passed class	Total
Under Graduate level					
Male	15	34	--	--	49
Female	12	10	--	--	22
Total	27	44	--	--	71
Post Graduate level					
Male	14	06	--	--	20
Female	07	01	--	--	08
Total	21	07	--	--	28

Student's Fellowship during AY 2021-22

Name of Fellowship	Under-graduate		Masters		Doctorate		Total
	No. of Students		No. of Students		No. of Students		
	Male	Female	Male	Female	Male	Female	
NTS-UG	09	13	-	-	-	-	22
STUDENT READY	48	22	-	-	-	-	70
EBC fellowship	60	13	10	05	-	-	88
MYSY fellowship	-	-	-	-	-	-	--
NAU Girls meritorious fellowship	-	-	-	-	-	-	--
SC/ST/fellowship	18	20	01	05	-	-	44
SEBC fellowship	50	19	08	06	-	-	83
Total	185	87	19	16	-	-	307

Cut off marks for admission in the UG degree programme during AY 2021-22

Sr. No.	Categories	Minimum requirement of Marks (%) (PCB)	Cut of Marks (%)*
1	General	40	64.97
2	SC	35	58.73
3	ST	35	51.35
4	SEBC	40	64.92
5	Other Board	40	58.53
6	PH	40	-
7	Ex-Army	40	-
8	EWS	40	64.42

*Cumulative marks of PCB and GUJCET

Number of students qualified in ICAR JRF/SRF/NET examination or Deemed University during AY 2021-22

Name of examination	Number of students qualified	Number of students passed out students
ICAR JRF	08	71
NET	03	-

Details of students qualified in ICAR JRF examination

Sr. No.	Name of the students	Registration number	Subjects	Rank & Category
1	Aiswarya P.	3010717002	Social Science	128 (GEN)
2	Savaliya Denish R.	3010717049	Plant Science	37 (EWS)
3	Zalavadiya Laljibhai Gokalbhai	3010717059	ABM	133 (GEN)
4	Vasoya Raj Rameshbhai	3010717057	ABM	123 (GEN)
5	Dabhi Dharmesh Baldevbhai	3010717011	Plant Science	535 (OBC)
6	Sunder Nayak	3010717052	Plant Science	157 (SC)
7	Ranva Yashvant Valjibhai	3010717045	Agronomy	95(SC)
8	Goti Savan Vallabhbbhai	3010717020	ABM	390 (GEN)

NET Qualified students

Sr. No.	Name of the students	Registration number	Subjects
1	Gami Priyanka Sureshbhai	2010719005	Agril. Entomology
2	Pandya Pranavkumar Vinodbhai	2010719012	Genetics and Plant Breeding
3	Patel Hiralben Sureshbhai	2010719015	Agronomy

Placement Cell

Degree	Total passed out students	Higher studies		Govt. Job	NGOs	Abroad	Self-entrepreneurship	Unemployed	Total
		Gujarat	Other states						
B.Sc. (Agri)	70	35	02	00	10	02	07	14	70
Total	70	35	02	-	10	02	07	14	70

Activities of students and faculty members at the College



Independence Day on August 15, 2021 at College of Agriculture, Bharuch Campus with Polytechnic, NARP and Cotton Regional Research Centre Staff and Students



Workshop on Eco club and Environmental Laboratory in collaboration with G.C.E.R.T, DIET, Bharuch on August 25-26, 2021.



The 16th Parthenium Awareness Week was organized during August 16-22, 2021 by Dr. Z.P. Patel, Hon'ble Vice Chancellor, NAU; Dr.H.V. Pandya, Registrar, NAU and Dr. D.D. Patel, Principal, CoA, Bharuch along with students



A singing competition was organized on the occasion of 125th Birth Centenary of National Singer "Shree Zaverchand Meghani" on September 04, 2021



One day farmer training programme was organized by Department of Plant Pathology, College of Agriculture, NAU, Campus Bharuch on "Mushroom Cultivation" under RKVY project on September 16, 2021



Celebration of World Cotton Day on October 07, 2021 in the Campus with Cotton Research Centre, NAU, Bharuch



Agriculture Education Day on December 3, 2021 at College of Agriculture, Bharuch



A programme on “Nashabandhi Prachar Prasar Karyakram” was organized with collaboration of Director, Narcotics and Excise Department, Government of Gujarat with the students of College of Agriculture on December 8, 2021.



Pak Parisamvad on “Awareness programme of Banana Export in South Gujarat” on December 10, 2021



Republic Day on January 26, 2022 at College of Agriculture, Bharuch Campus



Training on “Peri-urban Horticulture” was organized in collaboration with State Horticulture Department, Bharuch on December 21, 2021. Total 80 members participated in the training.



College of Agriculture, NAU, Bharuch organized Inter-College Volleyball Tournament-2021-22 on December 12, 2021. Total 84 players from seven colleges of NAU were participated in this tournament. Team-CoA, Bharuch won the Volleyball (Men) match. Dr. R.M. Naik, Director of Student Welfare, NAU, Navsari; Dr. J.G. Patel, University Board Member; Dr. D.D. Patel, Principal, COA, Bharuch were present during prize distribution programme.



Won the first position in Kho-Kho (Men) (February 24, 2022)



Won the first position in Kabaddi (Men) (February 24, 2022)



Won the second position in Table Tennis (Men & Women) (March 06, 2022)





Won the first position in Cricket (Men) (March 7-9, 2022)



Won the first position in Chess (Women) tournament (March 15-16, 2022)

Team CoA, Bharuch performed with top positions in different games during intercollegiate sports activities organized at NAU, Navsari during March month, 2022

NSS activities during AY 2020-21

Sr. No.	Activities	Date/ period	No of Volunteers
1	International Yoga Day	June 21, 2022	58

Ongoing Educational/Research/ Extension projects funded by Govt. of Gujarat and External agencies

Sr. No.	Name of the projects	Budget Head	Funding agency	Name of department
1	Establishment of College of Agriculture,	B.H.12246	GoG	CoA, Bharuch
2	Strengthening of Agricultural Polytechnic Phase-2	B.H.12247	GoG	CoA, Bharuch
3	National Agricultural Research project	B.H.7081-C (Non-Plan)	GoG	CoA, Bharuch
4	Genetic enhancement of Niche crop	B.H.12946-A (Plan)	GoG	CoA, Bharuch
5	Establishment of Plug Nursery for Horticultural Crops under HRT-2	B.H.18188	NHM, GoG	Horticulture
6	Gramin Krishi Mausam Seva (GKMS)	B.H. 18925	IMD, GoI	Agronomy

Experiential Learning Unit

Title of ELU	:	Enriched vermicompost production
Year of establishment	:	2017
Name of Manager	:	Dr. Tushar U. Patel
Department	:	Agronomy
Activities	:	Final year students were engaged during respective phase.
Number of student's beneficiaries	:	71
Amount earned per student	:	Due to Covid-19 situation, physical engagement of students was not possible/inconsistence; however, technically involved whenever possible.

Experiential Learning Unit



Collection and Processing of Crop residue



Bedding materials



Collection and packaging of crop residue

ELP students engaged in preparation of vermi-compost by using crop residue of different crops, *Eudrilus eugeniae* is used for vermi-compost preparation

Research publications

Sr. No.	Details of Publication	NAAS rating
1.	Bambhaneeya, S.M., Garaniya, N.H., Patel, K.H. and Surve, V. (2021). Profile distribution of available nutrients in a <i>Vertisol</i> and <i>Inceptisol</i> as influenced by irrigated and rainfed cotton crops. <i>Environment Conservation Journal</i> , 22 (3): 187-196.	5.66
2.	Chitla, S.S., Patel, H.H., Lokesh, R., Madagoudra, Y.B. and Terin, P. (2021). The effect of irrigation and nitrogen levels on nutrient content and uptake in grain amaranth (<i>Amaranthus hypochondriacus</i> L.) and soil nutrient status after harvest. <i>The Pharma Innovation Journal</i> , 10 (9): 1907-1910.	5.23
3.	Chitla, S.S., Patel, H.H., Madagoudra, Y.B., Lokesh, R. and Terin, P (2021). The effect of irrigation and nitrogen levels on growth, yield and economics of grain amaranth (<i>Amaranthus hypochondriacus</i> L.). <i>The Pharma Innovation Journal</i> , 10 (9): 1146-1149.	5.23
4.	Katara, C.M., Surve, V., Italiya, A.P. and Thakor, B.K. (2022). Response of biofertilizer and fertility levels on growth and yield of summer cowpea [<i>Vigna unguiculata</i> (L.) Walp.] Under South Gujarat condition. <i>The Pharma Innovation Journal</i> , 11 (5): 561-563.	5.23
5.	Kumar, B., Kumar, D., Mahesh, M.S. and Sheel, R. (2021). Effect of oral dosing of live and autoclaved culture of <i>Ruminococcus flavefaciens</i> FD-1 on rumen bacterial and fungal population in Murrah buffaloes. <i>Indian J. Dairy Sci.</i> 74 (5): 458-461.	5.31
6.	Movaliya, J.K., Kumar, B., Rao, K.S., Patel, V.R. and Raval, A.P. (2021). Effect of Bypass Fat and Fibrolytic Enzymes on Milk Yield and Milk Composition of Surti Buffaloes. <i>The Indian Journal of Veterinary Sciences and Biotechnology</i> , 7 (4): 75.	5.58
7.	Parmar, P.V., Patel T.U. and Baldaniya, M.J. (2022). Growth and yield performance of cowpea as influenced by weed management practices in south Gujarat condition. <i>The Pharma Innovation Journal</i> , 11 (3): 1970-1974.	5.23

8.	Parmar, P.V., Patel T.U. and Baldaniya, M.J. and Chaudhary, C.S. (2022). Weed diversity and yield of cowpea as influenced by weed management practices. <i>The Pharma Innovation Journal</i> , 11(3): 2126-2129.	5.23
9.	Patel, H.S., Surve, V., Bambhaneeya, S.M., Deshmukh, S.P. and Rathva, R. S. (2022). Effect of time of sowing and row spacing on growth, yield and quality of soybean (<i>Glycine max</i> L.) under rainfed condition. <i>The Pharma Innovation Journal</i> , 11(1): 406-409.	5.23
10.	Patel, P.T., Raj, A.D. and Jinjala, V.R. (2022). Effect of row spacing, variety and foliar spray on quality, nutrient content and uptake of summer green gram (<i>vigna radiata</i> L.) under south Gujarat condition. <i>Journal of Soils and Crops</i> , 32(1): 37-44.	4.50
11.	Patel, U.J., Deshmukh, S.P., Desai, N.B., Surve, V. and Mori, M.B. (2021). Impact of soil and foliar nutrient management practices on soil fertility in sweet corn (<i>Zea mays</i> var. saccharata). <i>The Pharma Innovation Journal</i> , 10(12): 600-602.	5.23
12.	Pradhan, S.K., Kumar, B., Banakara K.B., Patel, V.R., Pandya, H.R. and Singh, R.R. (2021). Effect of boron supplementation on the performance and metabolism of minerals in broiler chicken. <i>Animal Nutrition and Feed Technology</i> , 20: 39-49.	6.31
13.	Pradhan, S.K., Kumar, B., Banakara, K.B., Singh, R.R., Kharadi, V.B. and Chaudhary, S.S. (2021). Effect of Boron Supplementation on Bone Mineralization and Antioxidant Status in Broiler Chicken. <i>Asian Journal of Dairy and Food Research</i> , DR-1646 [1-6].	5.75
14.	Pradhan, S.K., Kumar, B., Raval, A.P., Chaudhary, S.S. and Kharadi, V.B. (2020). Effect of dietary boron supplementation on serum biochemical and carcass characteristics in broiler chicken. <i>Journal of Pharmacognosy and Phytochemistry</i> , 9(2S): 367-371.	5.20
15.	Ram, K.V., Raj, A.D. and Sankhla, P.M. (2022). Effect of nitrogen, phosphorus and potassium on growth, yield and economics of hybrid maize (<i>zea mays</i> L.) under south Gujarat condition. <i>Journal of Soils and Crops</i> , 32(1): 80-86.	4.50
16.	Singh, N., Patel, R.R. and Patel, A.M. (2021). Ascertaining the sources of resistance against <i>Fusarium</i> wilt and sterility mosaic disease of pigeon pea. <i>Plant Disease Research</i> , 36(1): 74-79.	4.58
17.	Singh, N., Patel, R.R. and Patel, A.M. (2021). Evaluation of pigeon pea genotypes against <i>Fusarium</i> wilt and sterility mosaic disease in Gujarat. <i>Indian Journal of Agriculture Research</i> , 1: 1-4.	5.17

Extension publication

Sr. No.	Title and other publication details
1	Biological control of Parthenium. NAU Publication No. 27/2021-22 (Folder)
2	Gajarghas (Khofnak Pardeshi Nindan). NAU Publication No. 28/2021-22 (Folder)
3	Compost from Parthenium. NAU Publication No. 29/2021-22 (Folder)
4	Integrated Parthenium Management. NAU Publication No. 32/2021-22 (Folder)
5	16 th parthenium awareness week. NAU Publication No. 33/2021-22 (Poster)
6	16 mo Gajarghas Jagruti Saptah. NAU Publication No. 34/2021-22 (Poster)
7	Tuver paakni sudhaarel jaatonee maahiti NAU Publication No. 87/2021-22 (Folder)
8	Tuvern vaigyaanik kheti padhdhati NAU Publication No. 88/2021-22 (Folder)
9	Tuver paakmaa rog niyantran NAU Publication No. 90/2021-22 (Folder)
10	Tuver paakmaa kitak niyantran NAU Publication No. 89/2021-22 (Folder)

Participation in seminar /symposium

Sr. No.	Name of faculty	Details of seminar/ conference/ Symposium/Webinar	Place	Date/ Period
1.	Dr. K. H. Patel	“Leadership Development and Team Building Skills for Extension Functionaries”	College of agriculture, NAU Bharuch & EEI, AAU, Anand Gujarat	May 25-27, 2021
2.	Dr. N. H. Garaniya	“Leadership Development and Team Building Skills for Extension Functionaries”	College of agriculture, NAU Bharuch & EEI, AAU, Anand Gujarat	May 25-27, 2021
3.	Dr. S. M. Bambhaneeya	“Leadership Development and Team Building Skills for Extension Functionaries”	College of agriculture, NAU Bharuch & EEI, AAU, Anand Gujarat	May 25-27, 2021
4.	Mr. P. D. Akbari	National webinar on “Bee Engaged: Build Back Better for Bees”	Directorate of Research, MPUAT, Udaipur, Rajasthan	May 20, 2021
5.	Dr. Vaishali Surve	Soil management for Climate Smart Agriculture	CSAWM, MPKV, Rahuri	June 14 to July 4, 2021
6.	Dr. S. M. Bambhaneeya	"Recent Trends in Cultivation, Processing and Value Addition of Few Important Medicinal and Aromatic Plants (MAPs)"	NAHEP-CAAST sub project, Navsari Agricultural University, Navsari.	June 7-10, 2021
7.	Dr. S. M. Bambhaneeya	“Application of Remote Sensing & Geographic Information Systems (GIS) In Agricultural Development”	Extension Education Institute, Anand Agricultural University, ANAND (Gujarat)	August 02-05, 2021
8.	Dr. A. D. Raj	Mass Awareness Campaign on Organic Farming: Gujarat	CFR on IFS, SK Nagar	August 05, 2021
9.	Dr. S. M. Bambhaneeya	"Climate Smart Agriculture and Efficient Water Management"	Extension Education Institute, Anand Agricultural University, ANAND (Gujarat)	August 11-13, 2021
10.	Dr. A. D. Raj	Advances in Sustainable Management of Natural Resources for Food and Nutritional Security	N.M.C.A, NAU, Navsari	August 26-27, 2021
11.	Dr. N. H. Garaniya	Online 21 Days training on “Agricultural Research Methodologies Practices and their Management”	Samagra Vikas Welfare Society (SVWS) & College of Horticulture & Forestry, Central Agricultural University Pasighat, Arunachal Pradesh, India	October 04-24, 2021
12.	P. D. Akbari	National webinar on "Challenges and Opportunities in Protected Cultivation”	Department of Horticulture, Rajasthan College of Agriculture, MPUAT, Udaipur (Rajasthan)	October 4, 2021

13.	Dr. D.D. Patel	Fifth International Agronomy Congress On “Agri Innovations to Combat Food and Nutrition Challenges”	PJTSAU, Hyderabad	November 23-27, 2021
14.	Dr. Hiren Patel	Fifth International Agronomy Congress On “Agri Innovations to Combat Food and Nutrition Challenges”	PJTSAU, Hyderabad	November 23-27, 2021
15.	Dr. Tushar Patel	Fifth International Agronomy Congress On “Agri Innovations to Combat Food and Nutrition Challenges”	PJTSAU, Hyderabad	November 23-27, 2021
16.	Dr. H. S. Makwana	Refresher Course in Physical Education	UGC-Human Resource Development Centre University of Allahabad, Prayagraj	January 18-31, 2022

7 | College of Agriculture Waghai

The Institute

College of Agriculture, Waghai is one of the constituent colleges of Navsari Agricultural University, Navsari established under the Tribal Sub-Plan funded by the Government of Gujarat with the vision of creating a top class institution of learning dedicated to excellence in agricultural sciences, industrial technology, and allied fields, research and development, and extension and training for global competitiveness and cooperation in 2012. Students were admitted to the four-year B.Sc. (Hons.) Agriculture degree programme for the first time in July 2012-13, when the College of



Agriculture first opened its doors. So far 251 students have been graduated from the College of Agriculture, Waghai. This college is accredited by National Agricultural Education Accreditation Board of ICAR during 2018. The recommendations of the Fifth Dean's committee reports have already been adopted at the college.

The constructions of Polytechnic and Degree college buildings have been completed during 2014-15 and 2017-18, respectively. The college has state of art facilities which includes an ultra-modern auditorium with all necessary AV equipment, smart classrooms with digital projectors and CCTV cameras, a language lab, and well-equipped laboratories of Entomology, Plant Pathology, Soil Science & Agricultural Chemistry, Genetics & Plant Breeding, and Horticulture. To prepare students for global competition, the college provides a computer lab with high-speed internet access and a language lab to improve fluency in English. In the near future, there is a plan to open a tissue culture laboratory, Center of Excellence on Mushroom Research and Bio-Agent Production Unit at this college. The college strives to provide students with the best possible amenities. The total capacity of accommodation in *Dandakaranya* Boys hostel is 162 students and in Shabri Girls hostel, the capacity is 93 students. The College features a playground for various sporting activities, and also has a separate Gymnasium for boys and girls students. Generally, the students are participating in college, university, inter university and national level sports *viz.*, kabbaddi, kho-kho, badminton, volley ball, cricket and basketball and cultural competitions *viz.*, drama, folk dance, mono acting, mimicry, musical events, agriunifest, *etc.* and won number of prizes/medals.

The college is conducting Student Ready and RAWE programme for the final year students. The RAWE Programme covers a wide range of topics and it offers a direction to the students to develop their competence, capacity and ability to acquire an expertise. The college publishes "*Dandakaranya Magazine*" every year, which is a sign of extracurricular activities of students as well as faculties of College of Agriculture, Waghai. The faculties of college are working hard to fulfill the mission- "to train manpower needed for Agricultural development of the state of Gujarat". In addition to this paramount mission, research and extension education of agricultural sectors are also the priority areas of this college.

Faculty information

Sr. No.	Name of the Post	Sanctioned posts	Filled posts	Composition of filled posts							
				Educational qualification				Domicile state		Gender	
				Master		Doctoral		Gujarat	Out states	Male	Female
				Gujarat	Out states	Gujarat	Out states				
1	Principal	01	01	-	-	01	-	01	-	01	-
2	Professors	03	02	-	-	01	01	01	01	02	-
3	Associate Professors	08	08	01	-	03	04	04	04	08	-
4	Assistant Professors	16	11	05	-	02	04	07	04	09	02
Total		28	22	06	-	07	09	13	09	20	02

List of Departments

Sr. No.	Departments	Sr. No.	Departments
1	Agronomy	7	Agricultural Economics
2	Genetics and Plant Breeding	8	Horticulture
3	Soil Science and Agricultural Chemistry	9	Basic Sciences and Humanities
4	Entomology	10	Agricultural Engineering
5	Plant Pathology	11	Animal Production
6	Agricultural Extension & Communication	12	Statistics

Academic Programmes offered

Degree Programmes	Duration	Total Credits
B.Sc. (Hons.) Agriculture	8 Semesters	186

Under Graduate Credit details (As per V Deans' committee recommendations)

Sr. No.	Semesters	Number of Courses	Theory + Practical = Total Credits
1	First	11	14+08=22
2	Second	11	17+09=26
3	Third	10	15+09=24
4	Fourth	12	15+10=25
5	Fifth	11	14+10=24
6	Sixth	11	14+11=25
7	Seventh	01	0+20=20
8	Eight	01	0+20=20
		Total	89+97=186

Students Information

Summary of Students Admitted during AY 2021-22

Degree	Gender	Intake capacity	Gujarat						ICAR	Foreign	Grand Total
			Gen	SEBC	SC	ST	CBSE	Total			
B.Sc. (Hons.) Agri.	Male	70	19	17	03	04	01	44	03	-	47
	Female		07	04	00	02	-	13	-	-	13
	Total		26	21	03	06	01	57	03	-	60

Summary of Students Enrolled during AY 2021-22

Degree	Year	Gender	Gujarat						ICAR	Foreign	Total
			Gen	SEBC	SC	ST	CBSE	Total			
B.Sc. (Hons.) Agri.	1 st	Male	19	17	03	04	01	44	03	-	47
		Female	07	04	00	02	-	13	-	-	13
	2 nd	Male	19	10	02	05	02	38	-	-	38
		Female	12	03	01	03	00	19	04	-	23
	3 rd	Male	28	12	02	07	03	52	03	-	55
		Female	09	04	01	00	00	14	01	-	15
	4 th	Male	26	13	04	05	00	48	-	-	48
		Female	07	03	02	03	00	15	01	-	16
Sub-total			127	66	15	29	6	243	12	0	255

Summary of passed out students during AY 2021-22

Gender	Distribution of students in different classes				
	First with Distinction	First Class	Second class	Passed class	Total
Under Graduate level					
Male	22	25	-	-	47
Female	08	08	-	-	16
Total	30	33	-	-	63

Student's Fellowship during AY 2021-22

Name of fellowship	Under-graduate		Total
	No. of Students		
	Male	Female	
NTS-UG	03	07	10
SC/ST/fellowship	17	17	34
SEBC fellowship	59	07	66
NAU Girls fellowship	-	01	01
Total	79	32	111

Cut off marks for admission in the UG degree Programme during AY 2021-22

Sr. No.	Category	Minimum requirement of Marks (%) (PCB)	Cut of Marks (%)*
1	General	40	61.17
2	SC	35	56.40
3	ST	35	50.02
4	SEBC	40	61.77
5	Other Board	40	53.21
6	PH	35	-
7	Ex-Army	35	-
8	EWS	40	61.43

* Cumulative marks of PCB and GUJCET

Number of students qualified in ICAR JRF/SRF/NET examination or Deemed University during AY 2021-22

Name of examination	Number of students qualified	Number of students passed out students
ICAR JRF	01	63

Placement Cell

Degree	Total passed out students	Higher studies		Govt. Job	Private Job	Abroad	Self-entrepreneurship	Unemployed
		Gujarat	Other states					
B.Sc. (Agri)	63	27	-	-	04	01	-	-
Total	63	27	-	-	04	01	-	-

Activities of students and faculty members at the College



CoA, Waghai organized 7th International Day of YOGA on Jun. 21, 2021



CoA, Waghai organized a Seminar on “Legal subject under Protection of Women from Domestic Violence Act 2005” on Aug. 11, 2021



CoA, Waghai organized One day awareness workshop for job-oriented guidance on “Anubandham Web Portal” on Aug. 13, 2021



CoA, Waghai organized “Van Mahotsav Programme-2021” at College of Agriculture, Waghaion Aug. 23, 2021



CoA, Waghai organized a public awareness program on the "Possibility of mushroom cultivation in South Gujarat" on Aug. 11, 2021



Five days Orientation cum training programme on Entrepreneurship and Personality Development" was organised by CoA, Waghai during Aug. 23-27, 2021



CoA, Waghai organized three days virtual training on "Management of Honey bees" during Aug. 24-26, 2021



CoA, Waghai organized "Farmers - Students" Interaction programme on Sept. 4, 2021



International Year of Millets-2023, a campaign on nutri-garden and tree plantation was organized jointly by College of Agriculture, Krishi Vigyan Kendra and Hill Millet Research Station at CoA, Waghai on Aug.17, 2021



CoA, Waghai organized Tobacco training -"તમાકુના ઉપયોગથી થતા નુકશાન અંગે જનજાગૃતિ શિબિર" on Nov. 24, 2021



Webinar based programme “Sambhav”, a National Level Awareness Programme (NLAP) on Entrepreneurship was organized at College of Agriculture, NAU, Waghai on Aug. 25, 2021



College of Agriculture, Waghai organized a farmer training programme on Aug. 4, 2022 under project “Agricultural Waste Management through Vermicomposting” on the topic “Vermicomposting”



A Dental Check-up programme under National Oral Health Programme (NOHP) was organised at College of Agriculture, NAU, Waghai on Mar. 5, 2022



In view of National Voter Awareness Competition, a programme on “My vote is my future, the strength of One vote” was organized at CoA, Waghai on Mar. 7, 2022

Educational/Infrastructural Facilities

Education infrastructure like buildings, classrooms, laboratories, and equipments are crucial elements of learning environments in the college. There is strong evidence that high-quality infrastructure facilitates better instruction, improves student outcomes, and reduces dropout rates, among other benefits. Each lecture hall is made it as Digital Classrooms, which is equipped with comfortable sitting for all students. It is decorated with podium and the modern facilities for presentations. The College Library serves various purposes like serving the academic needs of students and faculties, acting as a center for collection of books, journals related to a various branches of education. College has the Departmental Laboratory facilities, where practical activities have great significance in the teaching learning process and help to develop important skills, and a broad understanding of scientific concepts. Departmental laboratories are richly equipped with all the equipment's necessary for performing the practical. College has computer laboratory with high speed internet facility to enable students for global competitiveness. Apart from these, Language lab is also established which is equipped with computers having internet connectivity to cater to audiovisual learning with a view to enhance communicative skills. It is enabled with “Oréll Talk” software for language learning. The Colleges has seminar hall with capacity of 140 seats, well equipped with latest facilities. It is useful to the students of the college to give their presentations and organize other activities. The college building consists of ultra-modern auditorium with all necessary AV

aids with capacity of 450. In the premises, necessary facilities for both indoor and outdoor games including separate Gymnasium for physical development of boys and girls have been created. In the sub campus, separate boys & girls hostels have been established with all modern amenities. The hostel also has a recreation room fitted television and indoor and outdoor sports facilities. The hostel kitchen provides excellent and hygienic food.

Title of ELU	:	Agriculture Waste Management through Vermicomposting
Year of establishment	:	2018
Name of Manager	:	Dr. Ajay Patel : appatel@nau.in & arya5122005@gmail.com Mob: 9979674748 & 9427155512
Department	:	Department of Agronomy : College of Agriculture, NAU, Waghai
Activities	:	Construction of ELP unit has been completed. Total 29 students trained for vermicompost production and students produced about 1000 kg vermicompost.
Number of students beneficiaries	:	29
Amount earned per student	:	Project is at initial stage



Entrepreneurs interaction with students



Training on Entrepreneurship and Personality development under ELU (ICAR)

Title of ELU	:	Quality Planting Material Production in Horticultural Crops
Year of establishment	:	2018
Name of Manager	:	Dr. Mangaldeep Sarkar : Email: msarkar@nau.in; Mob: 9933777603
Department	:	Department of Horticulture, : College of Agriculture, NAU, Waghai
Activities	:	Construction work has been completed. Production of planting materials in different horticultural crops is going on.
Number of students beneficiaries	:	28
Amount earned per student	:	Project is at initial stage



Students involvement in activities of Quality Planting Material Production in Horticultural Crops

Research publications

Sr. No.	Publications details	NAAS rating
1.	Anita C. Solanke, P.B. Patel, S.K. Jadav and Pooja K. Patel (2022). Genetic analysis for quality traits in aromatic rice. <i>Green farming</i> , 13 (1&2): 278-283.	4.0
2.	Anita C. Solanke, P.B. Patel, S.K. Jadav, R.D. Vekariya and Pooja K. Patel (2022). Heritability and genetic advance for yield and yield contributing traits in Aromatic rice, <i>Green farming</i> , 13 (1&2): 302-305.	4.0
3.	Bambharolia, R.P., Vyas Trupti K. and Deshmukh A.J. (2021). Isolation and Screening of Lignocellulolytic Microorganisms from different locations of Dang (Gujarat) India. <i>International Journal of Economic Plants</i> , 8 (4): 217-221.	4.37
4.	Bambharolia, R.P., Vyas Trupti K., Damasia D.M. and Deshmukh A.J. (2021). Effect of prepared bio-compost on plant growth promotion trait of Sorghum. <i>International Journal of Economic Plants</i> , 8 (3): 121-126.	4.37
5.	Damasia, D.M., Patel Z.P, Bambharolia, R.P. and Makwana, A.I. (2021). Screening, morphological and biochemical evaluation of cashew variety in relation to tea mosquito bug, <i>Helopeltis antoniisignoret</i> infestation, <i>Biological Forum - An International Journal</i> , 13 (3b): 84-88.	5.11
6.	Damasia, D.M., Patel Z.P. and Dobariya, J.B. (2021). Influence of abiotic factors on incidence of thrips, <i>Scirtothrips dorsalis</i> Hood of cashew in Gujarat, <i>International Journal of Plant Sciences</i> , 16 : 07-10.	4.15
7.	Damasia, D.M., Patel, Z.P., Dholariya, H.P. and Thesia, N.M. (2021). Impact of environmental factors on infestation of cashew leaves by leaf miner, <i>Acrocercopssyngramma</i> Meyrick in Gujarat, <i>International Journal of Plant Sciences</i> , 16 : 29-33.	4.15
8.	Dhara D. Lunagariya, K.G. Patel, Susheel Singh and V.M. Patel (2021). Effect of different herbicides on growth, yield and available N in pigeon pea growing soil. <i>The Pharma Innovation journal</i> , 10 (7): 1426-1429.	5.23
9.	Dholariya, H.P., Sonal Tripathi, N.M. Thesiya and Navneet Kumar (2021). Effect of solid and liquid organics on growth, yield and economics of finger millet [<i>Eleusine Coracana</i> (L.) Gaertn.] grown under rainfed condition of South Gujarat. <i>Journal of Plant Development Sciences</i> , 13 (8): 615-619	4.13

10.	Dholariya, H.P., Sonal Tripathi, Navneet Kumar and R. R. Pisal (2021). Impact of solid and liquid organic sources on content and uptake of nutrients by finger millet [<i>EleusineCoracana</i> (L.) Gaertn.] under rainfed condition of South Gujarat. <i>Journal of Plant Development Sciences</i> , 13 (8): 659-662	4.13
11.	Garde, Y.A., A.P., Chaudhary, P.C., Bhimani, K.G., Modha, Alok Shrivastava, Nitin Varshney (2022). Construction of selection indices by using different economic coefficients in Indian Bean [<i>Lablab purpureus</i> (L.) Sweet]. <i>Legume Research- An International Journal</i> , 45 (10), 1-7.	6.59
12.	Garde, Y.A., H. V. Gundaniya, V. S. Thorat, R. R. Pisal and Alok Shrivastava (2021). Forewarning of insect incidence based on weather variables for management of cropping practices in Sugarcane. <i>Environment Conservation Journal</i> , 23 (1&2): 211-216.	5.66
13.	Garde, Y.A., R. R. Chavda, V. S. Thorat and R. R. Pisal (2021). Forecasting of area, productivity and prices of mango in Navsari district, Gujarat. <i>Journal of Crop and Weed</i> , 17 (3): 17-28.	5.46
14.	Nitin Varshney, Tauqueer Ahmad, Anil Rai, Ankur Biswas and Prachi Misra Sahoo (2021). Prediction approach estimator using auxiliary information under two-phase sampling. <i>Int. J. Agricult. Stat. Sci.</i> , 17 (2), 733-739.	4.92
15.	Patel Divya H. and Pastagia J.J. (2022). Abundance of different flower visitors and their foraging behaviour in cucumber (<i>Cucumis sativus</i> L.) <i>The Pharma Innovation Journal</i> , 11 (2):1817-1820.	5.23
16.	Patel J.D. and Pastagia J.J. (2021). Insect pollinator's diversity in the Dangs district of Gujarat. <i>The Pharma Innovation Journal</i> , 10 (5): 603-606.	5.53
17.	Patel Jignesh D. and Pastagia J.J. (2021). Pollinator fauna of bitter gourd and their foraging behavior in natural pollination and augmentation of Apiscerana bees to natural pollination. <i>The Pharma Innovation Journal</i> , 10 (6):91-95.	5.53
18.	Prajapati, V.P., R.F. Chaudhary, A.J. Deshmukh and R.P. Bambharolia (2021) Evaluation of finger millet germplasm for resistance to blast disease on the basis of morpho-biochemical parameters. <i>Pl. Dis. Res.</i> , 36 (2): 143-148.	4.76
19.	Vaniya, R.G., Pushpendra Singh and A.J. Deshmukh (2022). Effect of different cultural media on growth of different isolates of <i>Sclerotium rolfsii</i> Sacc. causing stem rot of Indian bean. <i>The Pharma Innovation Journal</i> , 11 (04):14-19.	5.23
20.	Vaniya, R.G., Pushpendra Singh and A.J. Deshmukh (2022). Variability among the different isolates of <i>Sclerotium rolfsii</i> Sacc. causing stem rot of Indian Bean. <i>Biological Forum – An International Journal</i> , 14 (2): 757-765.	5.11

Book Chapter

Sr. No.	Details of Publication
1	<i>Dioscorea wallichii</i> Hook. f. (Dioscoreaceae): a tribal medico-food of India, YAM, Publisher: APRF, ISBN: 978-81-955847-5-8
2	Natural Farming: a sustainable way of cultivation, Medico-Bio wealth of India, Volume- VII, Publisher: APRF, ISBN: 978-81-955847-7-2
3	Effects of heavy metal toxicity from fish to humans, Book: Recent Trends of Innovations in Chemical and Biological Sciences Volume II, Publisher: Bhumi Publishing, ISBN: 978-93-91768-71-3

List of TV/ Radio talks

Sr. No.	Name of faculty	Topic/title	Date	Radio/ TV talk
1	Dr. J. J. Pastagia	Phone in Live programme on Honey bee keeping	26.05.2021	TV talk

HRD Programmes

Participation of Scientists in Conference/ Seminars/ Symposia/ Workshops/Trainings (2021-22)

Particulars	Participants
Seminar/Symposia/Conference	11
Winter/Summer Schools	00
Workshop/Short term training	03
Total	14

Staff attended Seminar/Symposia/Conferenceduring the year 2021-22

Sr. No.	Names	Details of seminar/ conference/ Symposium	Place	Date/ Period
1.	S.K. Jadav	Two Days National Seminar Cum Workshop on "Food for Thought: Applied Statistics and its Implication:	NAU, Navsari	2 days Jun. 29-30, 2022
2.	Dr. V. M. Patel	National Seminar on "Advances in Sustainable Management of Natural resources for food and Nutritional Security" organized by Dept. of Soil Sci. and Agril.Chem. and Dept. of Agronomy, NMCA, NAU, Navsari	NAU, Navsari	2 days Aug. 26-27, 2021
3.	Miss. Jyoti Kokani	Virtual National Seminar on "Advances in Sustainable Management of Natural Resources For Food and Nutritional Security"	NAU, Navsari	2 days Aug. 26-27, 2021
4.	H. P. Dholariya	National Seminar on "Advances in Sustainable Management of Natural Resources for Food and Nutritional Security"	Virtual	2 days Aug. 26-27, 2021
5.	Dr. D.M. Damasia	5 th International conference on Advances in Agriculture, Environmental and Biosciences for Sustainable Development	Rampur, U.P.,	3 days Aug. 5-7, 2021
6.	Dr. D.M. Damasia	Webinar on "Invasive pest and diseases problem in Indian Agriculture	NAU, Navsari	1 day Aug. 7, 2021
7.	Dr. Nitin Varshney	Participated and presented a paper entitled "Market Intelligence through Forecasting of Area, Productivity and Prices of Mango in Valsad District of Gujarat, in the regional seminar on Agricultural Market Intelligence: Prospects and Challenges	Centre for Agricultural Market Intelligence	2 days Oct. 28-29, 2021

8.	A. J. Deshmukh	(IPS Symposium) Achieving suitability in crop production through alimentionation and plant protection	College of Agriculture, Latur, MH	2 days Nov. 17-18, 2021.
9.	Dr. V. M. Patel	Fifth International Agronomy Congress on "Agri Innovations to Combat Food and Nutrition Challenges" Organized by the Indian Society of Agronomy	PJTSAU, Hyderabad	5 days Nov. 23-27, 2021
10.	Dr. A. P. Patel	Fifth International Agronomy Congress on "Agri Innovations to Combat Food and Nutrition Challenges" Organized by the Indian Society of Agronomy	PJTSAU, Hyderabad	5 days Nov. 23-27, 2021
11.	Dr. Nitin Varshney	Hindi Workshop on "Application of Sampling Techniques in Agriculture and Data Analysis	ICAR-Indian Agricultural Statistics Research Institute, Pusa, New Delhi	3 days Nov. 30- Dec. 2, 2021
12.	Dr. Nitin Varshney	Participated in International Web Conference on Global Research Initiatives for Sustainable Agriculture & Allied Sciences (GRISAAS-2021)	Astha Foundation	3 days Dec. 13-15, 2021
13.	Dr. Nitin Varshney	Participated and presented a paper entitled "An estimator based on Prediction Approach using Auxiliary information under Two-phase sampling", in an International conference on Recent Application of Statistical Techniques and Analysis (RASTA-2021)	Institute of Science, Banaras Hindu University	3 days Dec. 15-17, 2021
14.	Dr. D.M. Damasia	State level Seminar on Jivataneerogonaj aivikni yantr and varabagay atianekhadhy pakni gunvataane salamatini jalavani	NAU, Navsari	1 day Dec. 30, 2021

List of faculties participated in workshop/summer/winter/short course during the year 2021-22

Sr. No.	Names	Details of workshop/short term training	Place	Date/ Period
1	Dr. D.M. Damasia	Online training on Fruit fly Surveillance and management	NIPHM, Hyderabad	5 days Apr. 19-23, 2021
2	Dr. D.M. Damasia	Online training on production protocol for entomopathogenic nematode	NIPHM, Hyderabad	5 days May 31 to Jun. 4, 2021
3	Dr. D.M. Damasia	Online training on Management of Honeybees	College of Agriculture, NAU, Waghai	3 days Aug. 24-26, 2021

4	Dr. D.M. Damasia	On farm and mass production protocols of bio agents and microbial agents for fall armyworm management	IIMR, Hyderabad	3 days Oct. 6-8, 2021
5	Dr. Nitin Varshney	Online ICAR-sponsored short course on "Statistical Development for Data Analytics in Agricultural Experimentation"	ICAR-Indian Agricultural Statistics Research Institute, Pusa, New Delhi	10 days Jan. 27 to Feb. 5, 2022
6	H. P. Dholariya	Participated in ICAR sponsored Winter school Training Programme on "Innovations in Potato Improvement, Production and Utilization of Technologies for Doubling Farmer's Income"	Central Potato Research Institute, Shimla (H.P.)	21 Days Jan. 18 to Feb. 7, 2022
7	Sagar Jadhav	Winter School on Crop Residues utilization and management for Clean Energy and Environment	CIAE, Bhopal	21 Days Feb. 23 to Mar. 15, 2022
8	Dr. D.M. Damasia	Onlineworkshop on "Identification of phytophagous mites with special reference to Tetranychidae"	NAU, Navsari	2 days Mar. 4-5, 2022.

8 | ASPEE College of Horticulture Navsari

The Institute

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, College of Forestry and Horticulture was established in November, 1988 at Navsari (Gujarat) under the approval of *Krishi* and *Gram Vikas Vibhag* of the Government of Gujarat *vide* Resolution No. GKV-1087-3174 K-2, dated 4-11-1988. For starting this college, generous donation of Rs. 40



lakh 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.

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, Navsari Agricultural University, Navsari with multi-disciplinary approach to address education, research and extension. This college is offering bachelor degree in Horticulture, Post Graduate degrees in the disciplines of Fruit Science, Vegetable Science, Plantations, Spices, Medicinal and Aromatic Crops (PSMA), Floriculture and Landscape Architecture and Post Harvest Technology. To impart hands-on-training in horticultural field and develop entrepreneurship among UG students, 3 modules of Student READY & Experiential Learning Programme *viz.*, Protected Cultivation of High Valued Horticultural Crops, Commercial Production of Horticultural Materials, Post-Harvest Handling and Value Addition in Horticultural Crops and Floriculture and Landscape Architecture are running under the college. Apart from this, one plan project on "Practical Training Centre for students in Hi-tech Horticulture" is also functional for horticultural students. Apart from higher education, different certificate courses *viz.*, Turf Grass Management and Landscape, Gardening Training Programme, are undertaken in the college to train the human resources in the field of Floriculture and Landscaping. In Biotechnology discipline, students from other Universities are permitted to undertake dissertations works on the aspects of Plant molecular biology, biotechnology and tissue culture. Beside this, coaching classes are conducting for the students for better score in the JRF/SRF/NET exams as well as other state and national level 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.

This college is also associated with three different schemes namely- Strengthening activities of Fruit Crops, Research in Fruit crops, and AICRP on Palms for various aspects like fruit production, breeding and climate change, *etc.* The Department of Post-Harvest Technology undertakes basic and strategic research in cutting edge technologies for innovative breakthrough, development of post-harvest handling,

transportation, packaging and intelligent storage structure for horticultural crops, development, testing, popularization and commercialization of post-harvest protocols, establishment of infrastructure in terms of pilot plants (Mango, Tomato, Banana and Onion) for processing (primary /secondary /tertiary). All the extension activities are organized and coordinated by Directorate of Extension Education, NAU, Navsari in which faculty members are called to deliver lectures in various farmer training programmes. Horticulture scientists also provide their valuable inputs/suggestions to the farmers of Gujarat and adjoining states.

Faculty information

Sr. No.	Name of the Post	Sanctioned posts	Filled posts	Composition of filled posts							
				Educational qualification				Domicile state		Gender	
				Master		Doctoral		Gujarat	Out states	Male	Female
				Gujarat	Out states	Gujarat	Out states				
1	Principal	01	0	0	0	0	0	0	0	0	0
2	Professors	05	04	0	0	02	02	02	02	03	01
3	Associate Professors	19	15	0	0	12	03	12	03	14	01
4	Assistant Professors	47	44	11	03	25	05	34	10	31	13
Total		72	63	11	03	39	10	48	15	48	15

List of Departments

Sr. No.	Departments	Sr. No.	Departments
1	Department of Fruit Science	5	Department of Plant Protection
2	Department of Vegetable Science	6	Department of Basic Sciences
3	Department of Floriculture and Landscape Architecture	7	Department of Natural Resource Management
4	Department of Post Harvest Technology	8	Department of Social Sciences

Academic Programmes offered

SN	Degree Programmes	Duration	Total Credits
1	B. Sc. (Hons.) Horticulture	8 Semesters	180
2	M.Sc. (Horticulture)	4 Semesters	55
3	Ph.D. (Horticulture)	6 Semesters	75

Under Graduate Credit details (As per V Deans' Committee Recommendations)

SN	Semesters	Number of Courses	Theory +Practical = Total Credits
1	First	10	14+09=23
2	Second	11	23(13+10)+1*=24 (*Non-Credit)
3	Third	10	12+09=21
4	Fourth	10	24(15+09) +1*=25 (*Non-Credit)
5	Fifth	09	13+09=22
6	Sixth	10	15+10=25
7	Seventh	12	0+20
8	Eight	06	0+20
		Total	82+98 = 180

Post Graduates Programmes offered

SN	Disciplines of PG Programmes	Masters' Degree	Doctoral Degree
1	Fruit Science	Yes	Yes
2	Vegetable Science	Yes	Yes
3	Floriculture & Landscape Architecture	Yes	Yes
4	Post-Harvest Technology (PHT)	Yes	Yes
5	Plantation, Spice, Medicinal and Aromatic Plants (PSMA)	Yes	No
6	Horticultural Entomology	Yes	Yes
7	Horticultural Pathology	Yes	Yes
	Total	07	06

Students Information

Summary of Students Admitted during AY 2021-22

Degree	Gender	Intake capacity	Gujarat						Total	ICAR	Foreign	Grand Total
			Gen	SEBC	SC	ST	CBSE	EWS				
B.Sc. (Hons.) Horti	Male	77	07	10	01	00	01	05	24	04	-	28
	Female		19	04	02	07	02	02	36	05	-	41
	Total		26	14	03	07	03	07	60	09	-	69
M.Sc. (Horti)	Male	44	08	01	01	01	-	01	12	02	-	14
	Female		07	06	-	03	-	03	19	07	-	26
	Total		15	07	01	04	-	04	31	09	-	40
Ph.D.	Male	11+4*	04	05	-	01	-	-	10	-	-	10
	Female		02	03	02	-	-	-	07	02	-	9
	Total		06	08	02	01	-	-	17	02	-	19
Grand Total			47	29	06	12	03	11	108	20	-	128

* Sponsored

Summary of Students Enrolled during AY 2021-22

Degree	Year	Gender	Gujarat						Total	ICAR	Foreign	Total
			Gen	SEBC	SC	ST	CBSE	EWS				
B.Sc. (Hons.) Horti	1 st	Male	02	13	01	00	01	07	24	04	-	28
		Female	05	14	03	07	02	05	36	05	-	41
	2 nd	Male	02	16	02	03	02	12	37	04	-	41
		Female	02	13	01	06	00	01	23	02	-	25
	3 rd	Male	03	17	00	03	00	10	33	04	-	37
		Female	01	09	00	10	02	07	29	03	-	32
	4 th	Male	18	08	03	03	00	-	32	08	-	40
		Female	05	11	02	07	02	-	27	01	-	28
Sub-total			38	101	12	39	09	42	241	31	-	272

M. Sc. (Horti)	1 st	Male	08	01	01	01	-	01	12	02	-	14
		Female	07	06	-	03	-	03	19	07		26
	2 nd	Male	08	03	-	-	-	02	13	02		15
		Female	06	02	01	03	-	01	13	05		18
	Sub-total			29	12	02	07	-	07	57	16	
Ph.D.	1 st	Male	04	05	-	01	-	-	10	-	-	10
		Female	02	03	02	-	-	-	07	02	-	09
	2 nd	Male	01	01	-	-	-	01	03	01		04
		Female	04	01	-	04	-	-	09	-		09
	3 rd	Male	02	02	-	-	-	-	04	02		06
		Female	03	02	01	02	-	01	09	01		10
	Sub-total			16	14	03	07	-	02	42	06	
Grand Total			82	127	17	53	09	51	340	53		393

Summary of passed out students during AY 2021-22

Gender	Distribution of students in different classes				
	First with Distinction	First Class	Second class	Passed class	Total
Under Graduate level					
Male	11	23	06	-	40
Female	09	16	03	-	28
Total	20	39	09	-	68
Master's level					
Male	10	13	01	-	24
Female	19	04	-	-	23
Total	29	17	01		47
Doctoral level					
Male	04	07	02		13
Female	02	01	-	-	03
Total	06	08	02	-	16

Student's Fellowship during AY 2021-22

Name of Fellowships	Under-graduate		Master		Doctorate		Total
	No. of Students		No. of Students		No. of Students		
	Male	Female	Male	Female	Male	Female	
NTS-UG	13	09	-	-	-	-	22
NTS-PG	-	-	-	01	-	-	01
ICAR-JRF	-	-	04	10	-	-	14
ICAR-SRF	-	-	-	-	03	02	05
STUDENT READY	71	49	-	-	-	-	120
INSPIRE	-	-	-	-	-	-	-
NAU PG fellowship	-	-	02	03	-	-	05
NAU Girls meritorious fellowship	-	38	-	-	-	-	38
ASPEE JRF	-	-	-	-	-	-	-
SC fellowship	06	04	01	01	-	-	12
ST fellowship	15	13	02	05	-	-	35
SEBC fellowship	67	24	06	10	-	-	107
Total	172	137	15	30	03	02	359

Cut off marks for admission in the UG degree programme during AY 2020-21

Sr. No.	Categories	Minimum requirement of Marks (%) in PCB	Cut of Marks (%)*
1	General	40	-
2	SC	35	46.32
3	ST	35	41.63
4	SEBC	40	52.75
5	Other Board	40	42.83
6	PH	35	-
7	Ex-Army	35	-
8	EWS	40	-

* Cumulative marks of PCB and GUJCET

Number of students qualified in ICAR JRF/SRF/NET examination or Deemed University during AY 2021-22

Sr. No.	Name of examination	Number of students qualified	Number of students passed out students
1	ICAR JRF	09	68
2	ICAR SRF	06	47
3	Deemed University (NAME)	-	-
4	NET	28	-

Details of students qualified ICAR-PG Scholarship (Erstwhile JRF for M.Sc.)

Sr. No.	Name of the students	Registration number	Subjects	Rank & Category
1	Narola Ajay Rameshbhai	3020217027	Horticulture	21(EWS-4)
2	Kishor Varotariya	3020217019	Horticulture	13 (OBC-5)
3	Ms. Pooja	3020217024	Horticulture	7 (GEN)
4	VekariyaVrajShaileshbhai	3020217049	Horticulture	58 (EWS-8)
5	Gaudani Yash Shaileshbhai	3020217012	Horticulture	236 (EWS-38)
6	MungalparaRushikVitthalbhai	3020217026	Horticulture	226 (EWS-35)
7	Prajapati DhruviPrakashbhai	3020217041	Horticulture	800 (OBC-329)
8	Kanara KishanKetanbhai	3020217017	Horticulture	350 (OBC-80)
9	Savaj Chetan Mansukhbhai	3020217044	Horticulture	352(EWS-50)

Details of students qualified ICAR-JRF/SRF (ErstwhileSRF fort Ph.D.)

Sr. No.	Name of the students	Registration number	Subjects	Rank & Category
1	Jadhav Parth	2020219014	Fruit Science	7 (EWS-1)
2	Chandana Shivaswamy	2020219007	Floriculture and L. A.	14 (SC-1)
3	Sindha Mallikaben Ravjibhai	2020219040	Floriculture and L. A.	21(SC-2)
4	Brunda N B	2020129006	PHT	4 (OBC 2)
5	Desai YashkumarGamanbhai	2020218012	Fruit Science	67 (OBC-29)
6	Solanki Kaushikkumar Satyanarayan	2020219042	Floriculture and L. A.	52 (GEN)

Details of students qualified in ASRB-NET examination

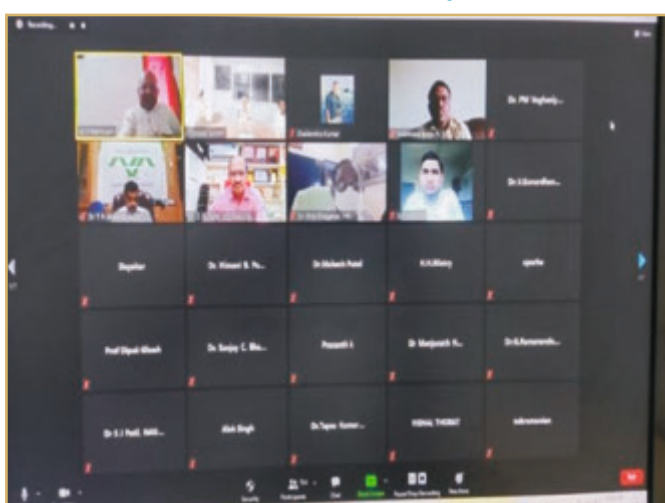
Sr. No.	Name of the students	Registration number	Subjects	Remarks
1	Lalitha K. R.	2020218017	Fruit Science	Qualified for ARS mains
2	Patel Arpita M.	1020220009	Fruit Science	-
3	Patel Jolly J.	1020220010	Fruit Science	-
4	Patel Nikita C.	2020219031	Fruit Science	-
5	Savaliya Ravi V.	2020219039	Fruit Science	-
6	Patel Yashkumar N.	2020219035	Fruit Science	-
7	Zala Vijaykumar R.	2020219049	Fruit Science	-
8	Bhumikaben Parmar	2020218026	Fruit Science	-
9	Jadhav Parth	2020219014	Fruit Science	Qualified for ARS mains
10	Gohil MehulbhaiMaganbhai	1020220006	Fruit Science	-
11	Monu Kumari	2020218020	Vegetable Science	-
12	SarvaiyaJaydipbhaiPrabhubhai	2020219038	Vegetable Science	-
13	UmmeFiza	2020219047	Vegetable Science	-
14	MadineniTejaswini	2020219017	Vegetable Science	-
15	Champaneri Dushyant Dipakkumar	1020220001	Vegetable Science	-
16	DudhatMitalArvindbhai	1020219006	Vegetable Science	-
17	GamitUpmakumariChunilal	1020219007	Vegetable Science	-
18	SakriyaShvetaGokalbhai	1020219016	Vegetable Science	-
19	Naik Pooja Rameshbhai	1020218008	Vegetable Science	-
20	Chandana Shivaswamy	2020219007	Floriculture and L. A.	Qualified for ARS mains
21	Mangroliya Ronak Mukeshbhai	1020220007	Floriculture and L. A.	Qualified for ARS mains
22	SindhaMallikabenRavjibhai	2020219040	Floriculture and L. A.	-
23	Trivedi SaryuJaldhibhai	1020220015	Floriculture and L. A.	-
24	Patel TejalbahrenPrakashbhai	2020219033	Floriculture and L. A.	-
25	Patel Jeminiben Dhansukhbhai	2020219027	Floriculture and L. A.	-
26	Solanki Kaushik	2020219042	Floriculture and L. A.	-
27	Vidyashree S.	2020218049	Floriculture and L. A.	Qualified for ARS mains
28	Dinesh Kumar	1020220004	Floriculture and L. A.	-

Placement Cell

Degree	Total passed out students	Higher studies		Govt. Job	Private/ NGOs	Abroad	Self entrepreneurship	Unemployed	Remarks
		Gujarat	Other states						
B.Sc. (Hons.) Horti	68	28	-	01	12	-	-	27	-
M.Sc. Horti	47	3	-	8	04	-	-	29	-
Ph.D. Horti	16*	-	-	07+02**	02	-	-	-	-
Total	131	31	-	16				56	

* 2 Inservice candidates; 1 International student; ** SRFs in the Research Project

Activities of students and faculty members at the College



ACoH organized one day National webinar on “Recent Advances in Production Technology and Value Addition of Coconut” on Aug. 09, 2021



ACoH organized webinar on “High Density Planting in Mango: A new approach on Aug. 31, 2021



ACoH celebrated WORLD COCONUT DAY by organizing one day training programme on 'Value addition and making of articles from coconut fibre' on Sept. 02, 2021



ACoH organized online workshop on “Intellectual Property Rights (IPR)- Patent and Designs Process” on Oct. 27, 2021



ACoH organized an Interactive workshop on Horti-Business Start-Ups on Oct. 29, 2021



ACoH organized an Indoor plant exhibition cum sale on Oct. 27, 2021



ACoH organized an Interactive meet on Entrepreneurial Skills for Floriculture on Dec. 31, 2021



ACoH organized Winter Flower Fest during Dec. 27-31, 2022



ACoH organized a skill development training on Flower Arrangement under Student Ready Program during Mar. 10-11, 2022



ACoH organized Flower Arrangement Show on Mar. 14, 2022

NSS activities during AY 2020-21



ACoH organized a Medical Camp on Jun. 19, 2021



ACoH organized an International Day of Yoga Celebration at Forestry College on Jun. 21, 2021



ACoH celebrated Fit INDIA run 2.0 rally on Aug. 28, 2021



ACoH organized an inter-collegiate Zaverchand Meghani Geet Competition on Sept. 22, 2021



ACoH organized cleanliness activity on Aug. 13, 2021



ACoH organized a Blood Donation Camp on Sept. 24, 2021



NSS volunteers (girls) during Dandi Marathon Run on Sept. 25, 2021



ACoH organized Thalassemia check-up camp on Dec. 14, 2021

NCC activities during AY 2021-22

Sr. No.	Activities	Date/ period	No of Cadets
1	Group Commander Visit	12.1.2021	8
2	Enrolment selection	16.12.2021	72

Ongoing Educational/Research/ Extension projects funded by Govt. of Gujarat and External agencies

Sr. No.	Name of the projects	Budget Head	Funding agency	Name of department
1	Strengthening of Horticulture College	12237	Plan, GoG	ACoH
2	Strengthening Research Activities of Fruit Crops	12025	Plan, GoG	Fruit Science
3	Project for Research in Fruit Crops	5014	Plan, GoG	Fruit Science
4	Establishment of Department of Horticulture	6503/03	Non Plan, GoG	Fruit Science
5	All India Coordinated Research Project on Palms	2044	ICAR	Fruit Science
6	Mission for Integrated Development of Horticulture	18930-1	NHB	Fruit Science
7	Evaluate the for Chlorfenuron 0.1 LIQ (CPPU) for fruit set, retention and post-harvest quality of mango	18208	Omega Fine Chemicals, Thane	Fruit Science
8	Development of DUS Test Guidelines for Sapota (<i>Achras zapota</i> L.)	329/18217	PPV& FRA	Fruit Science
9	Research in vegetable crops under protected conditions-Phase-II	12017	Plan, GoG	Vegetable Science
10	Research and Development in Vegetable Crops	12021	Plan, GoG	Vegetable Science
11	AICRP on Tuber Crops	2006-3	ICAR	Vegetable Science
12	AICRP on Vegetable Crops Voluntary Centre	2058	ICAR	Vegetable Science
13	Vegetable grafting to mitigate biotic and abiotic stresses in vegetable crops	14054	RKVY	Vegetable Science

14	Establishment of Research Project on Floriculture	12046 - 1	Plan, GoG	Floriculture & Landscape Architecture
15	Establishment of Practical Training Centre of Horticulture Students for the Hi-tech Horticulture	12970	Plan, GoG	Floriculture & Landscape Architecture
16	Advanced Technology Centre for Soilless System for Production of Various Crops	12041	Plan, GoG	Floriculture & Landscape Architecture
17	Landscaping and Gardening Training Programme (<i>Mali Talim</i>)	12508	Plan, GoG	Floriculture & Landscape Architecture
18	Model Nursery for Ornamental plants	9510N - 50	NHM	Floriculture & Landscape Architecture
19	ELP on Hi- Tech Protected Cultivation of Horticultural Crops	9510N- 60	ICAR	Floriculture & Landscape Architecture
20	Certificate Course in Turfgrass Management	9510N- 83	Self-financed	Floriculture & Landscape Architecture
21	AICRP on Floriculture	2100	ICAR	Floriculture & Landscape Architecture
22	Centre of Excellence on Post-Harvest Technology	12935	Plan, GoG	Post-Harvest Technology
23	Strengthening of P.G. Programme of Post-Harvest Technology & Process Engineering (Phase-II)	12244	Plan, GoG	Post-Harvest Technology
24	Establishment of Fruits and Vegetable Packaging Research Station Including Seeds	12940	State Govt.	Post-Harvest Technology
25	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	RKVY	Plant Protection
26	NHM on Establishment of Bio-agent (bio pesticide) production laboratory for major pests and diseases of horticultural crops	18198	NHM	Plant Protection
27	Research in tissue culture	12014-05	State Govt.	Basic Sciences
28	Strengthening of Department of Biotechnology	12097	State Govt.	Basic Sciences
29	Strengthening of organic farming cell	12022	State Govt.	Natural Resource Management

Educational/Infrastructural Facilities:

Practical Laboratory for PG students was developed in the department of Fruit Science and the facilities like working table, seed divider and illuminated purity work board were created in the department of Vegetable Science for practical learnings among students. Different laboratory as well as EL units of the college were strengthened by purchasing/installing few important equipments/instruments namely Plan Achromatic Trinocular Microscope with camera Module (Fruit Science), 5 HP submersible pump, portable power sprayer (4 stroke petrol), temperature and humidity data logger with USB interface (Floriculture), Variable speed motor with control panel, UPS 1 KVA (Post Harvest Technology) and Breeding kits (Vegetable Science).

Experiential Learning Units

Title of ELU	:	Protected Cultivation of High Valued Horticultural Crops
Year of establishment	:	2008
Name of Manager	:	Dr. H. P. Shah (FLA) and Dr. Sanjeev Kumar (Veg. Sci.)
Department	:	Department of Floriculture and Landscape Architecture, Department of Vegetable Science
Activities	:	Production of vegetables and cut flowers rose under protected cultivation Plug tray nursery raising of vegetables and annuals, Vegetable grafting Value addition of flowers by making different products Ornamental Potted plant production Marketing of flowers and pot plant Marketing of flowers, vegetables and pot plants
Number of students beneficiaries	:	46
Amount earned per student	:	Rs. 964 .00



Students involved in activities of protected cultivation of vegetable crops

Title of ELU	:	Commercial Production of Horticultural Crops Components
Year of establishment	:	2011
Name of Manager	:	Dr. N. K. Patel (Veg. Sci.) & Dr. Tulsi D. Gurjar (Fruit Sci.)
Department	:	Department of Vegetable Science Department of Fruit Science
Activities	:	Raising of seedlings of different fruit crops e.g. coconut, phalsa, aonla, custard apple, guava, black jamun, carambola, mango etc. <ul style="list-style-type: none"> • Clonal plants of fruit crops e.g cuttings of mulberry, fig, pomegranate, pineapple etc. • Air layering in different fruit crops e.g. Citrus, pomegranate, white jamun, cherry, red jamun etc. • Selling of different vegetable crops: Drum stick, brinjal, tomato, chilli, cabbage, cauliflower, palak, fenugreek, etc. • Marketing of planting materials.
Number of students beneficiaries	:	25
Amount earned per student	:	Rs. 1363.00



Students involved in various activities of Commercial Production in Horticultural Crops

Title of ELU	:	Post Harvest handling and Value Addition in Horticultural crops
Year of establishment	:	2011-12
Name of Manager	:	Er. A.K. Senapati, Dr. N.V. Patel & Er. F.M. Sahu , Dr, Dr. Parag Pandit
Department	:	Post Harvest Technology
Activities	:	<ul style="list-style-type: none"> • Procurement of raw materials for maintaining quality standards of processed products as per FSSAI act. • Processing and value addition of Fruits and Vegetables • Market survey for getting the idea of demand and supply of various processed products. • Experience for Grading, packing, pre-cooling, storage, ripening and transportation. • Building confidence level by working out benefit cost ratio of processed products for assessment of economic feasibility. • Developing skill of pre-treatments like sulphuring, sulphitation, lye-peeling etc. required prior to processing.
Number of students beneficiaries	:	25
Amount earned per student	:	Rs. 466.00



Students involved in various activities Post Harvest handling and Value Addition in Horticultural crops

Title of ELU	:	Floriculture and Landscape Architecture Components
Year of establishment	:	2020-21
Name of Manager	:	Dr. H. P. Shah , Mr. Ankit Bhandari, Dr. Dipal S. Bhatt
Department	:	Department of Floriculture and Landscape Architecture
Activities	:	After the lock down enforced by the Government due to COVID 19 pandemic, from April onwards the activities were carried on - e platform
Number of students beneficiaries	:	25
Amount earned per student	:	Nil

Research publications

Sr. No.	Details of publication	NAAS Score
1.	Ahir, T.R., Chawla, S.L., Bhatt, S.T., D.S. Bhatt, Patel, G.D. and Gurjar, R.A. (2021). Response of various planting dates and varieties on performance of China Aster under South Gujarat. <i>Int. J. Curr. Microbiol. App. Sci.</i> , 10 (02): 2025-2033.	5.38
2.	Bana, J.K., Ghoghari, P.D., Kalaria, G.B., Saxena, S.P., Sharma, H., Singh, P. and Patil, S.J. (2021). Survey and surveillance of pollinators in mango ecosystem. <i>Pest Management in Horticulture Ecosystem</i> , 27 (1): 11-15.	5.05
3.	Barman, P., Raj Kumar and A. K. Pandey (2021), Can canopy management increase quality fruit production in <i>Syzygiumcumini</i> (L.) Skeels.? <i>European Journal of Horticultural Science</i> , 86 (4): 371–383.	7.18
4.	Bhalerao, P.P., H.P. Maheswarappa and S. Sumitha (2021). Effect of integrated nutrient management on coconut (<i>Cocos nucifera</i>) based cropping systems in south Gujarat. <i>Current Horticulture</i> , 9 (2): 52-55.	4.53
5.	Bharai, R.B., Dev Raj, Mayani, J.M., Patel, N.V. and Naik, P.R. (2021). Effect of enzyme concentration and treatment time on sapota juice clarity, sedimentation and overall acceptability. <i>The Pharma Innovation Journal</i> , 10 (12): 1030-1034.	5.23
6.	Chalak, S.U., Patil, S.J. and Chawla, S.L. (2022). Phenologicalbehaviour of mango varieties under South Gujarat conditions. <i>The Pharma Innovation Journal</i> , 11 (4): 321-325.	5.23
7.	Chaudhari, D.J., Lathiya, A. and Chaudhary, A.P. (2021) Growth and variability in production of forest produce in Gujarat state. <i>The Pharma Innovation Journal</i> , 10 (9): 804-809.	5.23
8.	Chaudhari, S.D., SushilSaxena and Alka Singh (2021). Reaction of various rose varieties to major pests under greenhouse conditions. <i>J. Applied Zool. Res.</i> , 32 (1):67-70.	3.51

9.	Chaudhary, M.V., O.P. Sharma and K.L. Chaudhary (2021) Constraints as perceived by the members in availing services of cooperative societies in South Gujarat. <i>Int. J. Curr. Microbiol. App. Sci.</i> , 10 (1): 2376-2378.	5.38
10.	Chawla, S.L., Patel R.B., Dhaduk, B.K., PatilSudha and Bhatt Dipal(2021). Varietal assessment of chrysanthemum (<i>Dendranthemagrandidflora</i>) under south Gujarat agro-climatic conditions. <i>Current Horticulture</i> , 9 (2): 64–67.	4.53
11.	Christian, H.J., R.V. Tank, D.R.Bhanderi, K.N.Rathwa and M.V.Patel (2022). Response of foliar spray of nutrients on flowering and fruit set in sapota cv. Kalipatti. <i>The Pharma Innovation Journal</i> , 11 (1):194-197.	5.23
12.	Gurjar, R.A., Chawla S.L., Patel D.P., Pawar, R.D. and Ahir, T.R. (2021). Interaction effect of land configuration and nutrient management on growth, quality and yield of chrysanthemum (<i>Dendranthemagrandidflora</i> Tzvele var. Thai Chen Queen). <i>Int. J. Curr. Microbiol. App. Sci.</i> , 10 (1): 1429-1435.	5.38
13.	Hemant Sharma and J.K. Bana (2021). Cost effective management of post-harvest anthracnose of mango by pre-treatments. <i>Ann. Pl. Protec. Sci.</i> , 29 (3): 210-212.	4.11
14.	Himani B. Patel, Saravaiya, S.N. and Desai, K.D. (2021).Organic farming technologies in elephant footyam. <i>Guj. J. Ext. Edu.</i> , 32 (2): 169-171.	4.96
15.	Jayanth, S., D.R. Bhanderi, S.L. Chawla, A.I. Patel, S.N.Saravaiya and S.G.Sakriya (2021). Screening of okra genotypes across environments for resistance against shoot and fruit borer, yellow vein mosaic virus and enation leaf curl virus. <i>The Pharma Innovation Journal</i> , 10 (11): 407-413.	5.23
16.	Jesal R. Patel, Sanjeev Kumar and A.K. Pandey (2021). Studies on silicon and organic liquid nutrient spray on tomato under protected environment. <i>Progressive Horticulture</i> , 53 (1):63-69.	4.50
17.	Jesal R. Patel, Sanjeev Kumar, A.K. Pandey, N.B. Patel and J.M. Mayani (2021). Interactive effects of Silicic Acid and NOVEL on Tomato performance under protected conditions. <i>Current Journal of Applied Science and Technology</i> , 39 (46): 50-57.	4.68
18.	Nilpa P, Chintan K, Sayyed RZ, El Enshasy H, El Adawi H, Alhazmi A, et al. (2021) Formation of recombinant bifunctional fusion protein: A newer approach to combine the activities of two enzymes in a single protein.Plos One, 17 (4): e0265969.	9.24
19.	Vaidya H, Kapadia, C., Bhavini Borse, Trupti K. Vyas and Nafisa Patel (2021). diverse novel bacterial endosymbionts and their plant growth promoting traits in association with banana plant. <i>International Journal of Current Microbiology and Applied Sciences</i> , 10 (02):2047-2059	5.38
20.	Murthy, P. N., Patel, N., Kapadia, C., Desai, K., and Rao, G. K. (2021). Genetic diversity analysis of sweet potato [<i>Ipomoea batatas</i> (L.) Lam.] germplasms through RAPD and ISSR markers. <i>Bangladesh J. Bot.</i> , 50 (1): 119-129.	6.31
21.	Kapadia, C., R. Z. Sayyed, Hesham Ali El Enshasy, Harihar Vaidya, Deepshika Sharma, Nafisa Patel, Roslinda Abd Malek, Asad Syed, Abdallah M. Elgorban, Khurshid Ahmad, and Ali Tan Kee Zuan. (2021). Halotolerant microbial consortia for sustainable mitigation of salinity stress, growth promotion, and mineral uptake in tomato plants and soil nutrient enrichment. <i>Sustainability</i> , 13 : 8369	9.25

22.	Kapadia C, Alhazmi A, Patel N, Elesawy BH, Sayyed RZ, Lokhandwala F, Haque S, Datta R. (2021). Nanoparticles combined with cefixime as an effective synergistic strategy against <i>Salmonella enterica typhi</i> . <i>Saudi Journal of Biological Sciences</i> , 28 : 4164–4172.	10.22
23.	Kapadia, C., and Patel, N. (2021). Sequential sterilization of banana (<i>Musa spp.</i>) Sucker tip reducing microbial contamination with highest establishment percentage. <i>Bangladesh Journal of Botany</i> , 50 (4): 1151-115.	6.31
24.	Modi, S., Kumar, S. and Dubey, P.K. (2021). Dynamics of chitosan based NPK-nano-fertilizers in greenhouse cucumber production system. <i>J. Environ. Biol.</i> , 42 : 162-168.	6.56
25.	Nakarani, U.M., Diwakar Singh, K.P. Suthar, N.Karmakar, P.Faldu and H.E. Patil (2021). Nutritional and phytochemical profiling of nutraceutical finger millet (<i>Eleusinecoracana</i> L.) genotypes. <i>Food Chemistry</i> , 341 : (2021) 128271.	12.31
26.	Nilam V. Patel, J.M. Mayani, Dev Raj and T.R. Ahlawat (2021). Standardization of technology for preparation of candy from ripe papaya (<i>Carica papaya</i> Linn.) fruits. <i>Biological Forum- An International Journal</i> . 13 (3b): 139-143.	5.30
27.	Pandey, A.K., Khalasi Devang N., S. Kumar, T.R. Ahlawat and S.K. Dwivedi. (2021). Accumulation of essential nutrients by various cultivars of mango (<i>Mangifera indica</i> L.) during different growth stages. <i>Progressive Horticulture</i> , 53 (1): 36-40	4.50
28.	Pandya, A.M. and Sharma, O.P. (2022). Problems as avowed by Agri-preneurs and suggestions to overcome them in social entrepreneurship. <i>The Pharma Innovation Journal</i> , 11 (1S):04-06.	5.23
29.	Pandya, A.M. and Sharma, O.P. (2022). Relationship between the profile of farmers and agri-preneurs and their perception about social entrepreneurship in South Gujarat. <i>The Pharma Innovation Journal</i> , 11 (1S):715-716.	5.23
30.	ParvathiBennurmth, D.S. Bhatt, AnamikaGurung, Alka Singh. S.T. Bhatt (2021). Novel green approaches towards utilization of flower waste: A review. <i>Environment Conservation Journal</i> , 22 (3):225-230.	5.66
31.	ParvathiBennurmth, D.S. Bhatt, H.M. Patil and SudhaPatil (2021). Variability and correlation analysis for yield and related traits in chrysanthemum, <i>Agric. Res. J.</i> , 58 (5): 845-850.	5.44
32.	Patel, N.R., Y.N. Tandel and S.B. Patel (2021). Effect of seed scarification and priming treatments on seedling growth, survival and vigour index of sapota. <i>The Pharma Innovation Journal</i> , 10 (4): 1105-1109.	5.23
33.	Patel Niyati, Patel, S., Pandya, H.V., Saxena, S.P., Chawla, S.L. and Patil S. (2020) Field evaluation of botanical extracts against lily caterpillar (<i>Polytelagloriosae</i> Fabricius) infesting spider lily. <i>Journal of Entomology and Zoology Studies</i> , 8 (3): 1884-1887.	5.53
34.	Patel, D.V., Bhalerao, P.P. and Tandel, B.M. (2022). Effect of micronutrient application on growth, yield and quality of turmeric (<i>Curcuma longa</i> L.) cv. GNT-2. <i>International Journal of Agriculture Sciences</i> , 14 (1): 11043-11045.	4.58
35.	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. <i>Int. J. Curr. Microbiol. App. Sci.</i> , 10 (02): 3278-3282.	5.38

36.		3.48
37.	Pawar, R.D., Chawla S.L., Patil S.J., SudhaPatil and Gurjar, R.A. (2021). Physiological studies in chrysanthemum genotypes. <i>Journal of Ornamental Horticulture</i> , 24 (1): 22-27.	5.31
38.	Roma Tandel, Patel, S. and Pandya, H.V. (2020) Population dynamics of citrus psylla, <i>Diaphorinacitri</i> Kuwayama in relation to abiotic factor. <i>International Journal of Chemical Studies</i> , 8 (6): 2112-2116.	5.38
39.	Sarvaiya, J.P. Sarvaiya, S.N., Patel, H.S. and Tandel, Y.N. (2021). Response of vegetable cowpea [<i>Vigna unguiculata</i> (L.) Walp.] to foliar application of PGRs. <i>Int. J. Curr. Microbiol. App. Sci.</i> , 10 (7): 293-300.	5.38
40.	Sarvaiya, J.P., Sarvaiya, S.N., Patel, H.S. and Tandel, Y.N. (2021). Effect of PGRs on quality and yield traits of vegetable cowpea [<i>Vigna unguiculata</i> (L.) Walp.]. <i>Int. J. Curr. Microbiol. App. Sci.</i> , 10 (7): 283-292.	5.23
41.	Solanki, K.S., Patel, G.D., Bhatt, S.T. and Chaudhary, V.M. 2021. Turf establishment quality as affected by planting density and variety of Doobgrass (<i>Cynodon dactylon</i> L.). <i>The Pharma Innovation Journal</i> , 10 (12): 1110-1113.	-
42.	Tandel, Y.N., Ankita Mantri, S.N. Sarvaiya and Archana Mahida (2021). Growth performance and changes in physiological attributes of Khirni (<i>Manilkara hexandra</i> L.) seedlings under salinity stress. <i>Journal of Asian Agriculture</i> (Renamed as <i>Indian Journal of Agri. Vet. Research</i>), 1 (2): 66-75.	-
43.	Ugale H., Anka Singh, T.R. Ahlawat, Neelima Palagani and H.P. Shah (2021). Evaluation of different varieties and stages of harvest in rose (<i>Rosa</i> spp.) for dry flowers. <i>Agricaqua Science Research Journal</i> , 2 (2): 47-50.	5.46
44.	Vamaja, S.M., D.S. Bhatt, S.T. Bhatt, S.L. Chawla, M.A. Patel and S.M. Patel (2021). Effect of mulching on growth, flowering, and yield of chrysanthemum (<i>Chrysanthemum morifolium</i> Ramat, cv. Ratlam Selection). <i>J. Crop and Weed</i> , 17 (3): 233-236.	5.25
45.	Yinu Ahir and Hemant Sharma (2021). Diversity of seed borne Mycota associated with finger millet and their effects on seed germination and seedling vigour. <i>International Journal of Chemical Studies</i> , 9 (2): 603-606.	5.31

Books

Sr. No.	Details of publication
1	Pranava Pandey, Pandey, A.K and Sanjeev K umar S.(2022). Horticulture basic principles and recent approaches. New India Publishing Agency, New Delhi. P. 261. (ISBN-978-93-89130-00-0)
2	Sahu, F.M., A.K. Senapati, N.V. Patel and Dev Raj (2022). Book of research abstracts, Department of Post-Harvest Technology (2004-2021). ACHF, NAU, Navsari. P. 55. Uni. Pub. No. : 143/2021-22
3	Sanjeev Kumar, S.N. Sarvaiya and Pandey, A.K. (2021). <i>Precision Farming and Protected Cultivation: Concepts and Applications</i> . JAYA Publishing House, Delhi. P. 332. (ISBN: 978-93-90309-65-8)

Booklets

Sr. No.	Details of publication
1	Alka Singh and R.V. Tank. (2022) An overview experiential learning programme in Horticulture (2016-2020).University Publication No. 13/2021-22.
2	Alka Singh and R.V. Tank. 2021 -22. Compendium of PG Seminar Gists (Horticulture, Year 2016-2022). University Publication No. 14/2021-22.

Book Chapters

Sr. No.	Details of publication
1.	Chawla S.L., Pawar, R.D., SudhaPatil and Kavita (2021). Tuberose (<i>Polianthes tuberosa</i> L.). In: <i>Bulbous and Rhizomatous Plants</i> (Eds. Roy R.K and Banerji B.K.). Scientific Publishers, Jodhpur. Pp. 208-231.(ISBN-9789390495061)
2.	Chawla S.L., SudhaPatil, Pawar, R.D. and D.S. Bhatt (2021). Spider lily (<i>Hymenocallis littoralis</i> Jacq. Salib). In: <i>Bulbous and Rhizomatous Plants</i> (Roy R.K and Banerji B.K.) Scientific Publishers, Jodhpur. Pp. 198-207.(ISBN-9789390495061)
3.	Chawla, S.L. Kalkame Ch. Momin, Pawar, R.D., Kiran Kumari and Sudha Patil (2021). Traditional Bulbous Plants. In: <i>Handbooks of Crop Diversity: Conservation and Use of Plant Genetic Resources</i> (Eds. Datta S.K. and Gupta Y.C.). Springer Publication. Pp.4-39.
4.	Chawla, S.L., RoshniAgnihotri and Pawar, R.D. (2021). Turfgrass Management: Principles and Practices. In: <i>Flower Production and Gardening</i> ,(Eds. Yadav P.K. and Singh R.P.). NIPA, New Delhi. pp. 41-58 (ISBN-9789390591213)
5.	Chawla, S.L., SudhaPatil, RoshniAgnihotriand Pawar R.D. (2021).Heliconia. In: <i>Commercial Flowers</i> , (Eds. Bose T.K., Aswath C., Dutta K., Bhatia Reeta and Saha T.N.). Vol. 3. Daya Publishing House, New Delhi. Pp. 582-603. (ISBN-9789390435371)
6.	Kaswala, A.R. (2021). <i>Sherdi ni sendriya kheti padhatti</i> . In : <i>Sherdi ni adhuni kkhethi padhatti</i> . Pub. MSRC, NAU, Navsari.Pp. 49-52.Uni. Pub. No.70/2020-21
7.	Kumar, R., Dhuna, R.S., Pal, P. and Chawla, S.L. (2021). China aster. In: <i>Commercial Flowers</i> (Eds. Bose T.K., Aswath C., Dutta K., Bhatia Reeta and Saha T.N.). 4: Pp. 320-372,Daya Publishing House, New Delhi. (ISBN-9789390435456)
8.	Mahatma, L., Chawla, S.L. andSudhaPatil (2021). Important diseases of Gladiolus (<i>Gladiolus</i> spp.) and their management. In: <i>Diseases of Horticultural Crops: Diagnosis and Management</i> (Eds. Srivastava J.N. and Singh A.K.),3: Pp. 117-135, Ornamental plants and Spice Crops. CRCPress, Abingdon, Oxon, UK. (ISBN-9781003160465)
9.	Pandey, A.K.,Akash Gaurav Singh, A.R. Gadhiya, Sanjeev Kumar, Diwakar Singh and Reetu Mehta (2021). Current approaches in horticultural crops to mitigate waterlogging stress. In: <i>Stress Tolerance in Horticultural Crops Challenges and Mitigation Strategies</i> (Eds. Rai, A.C., Rai, A., Rai, K.K., Rai, V.P. and Kumar, A.). Woodhead Publishing, United Kingdom.Pp. 289-299. (ISBN-978-0-12-822849-4)
10.	Pandey, A.K., S.K. Dwivedi and T.R. Ahlawat (2021). Fig (<i>Ficus carica</i> L.). In: <i>Sub-Tropical Fruit Crops: Theory to Practical</i> , (Eds. Ghosh S. N. and Sharma R.R.). Jaya Publication House, New Delhi, pp 219-235. (ISBN-978-93-90611-01-0)
11.	Pandey, Himanshu, Diwakar Singh, A.K. Pandey, K.P. Suthar, R. Mehta and D. Pandey (2021). Current approaches in horticultural crops to mitigate the effect of cold stress. <i>Stress Tolerance in Horticultural Crops Challenges and Mitigation Strategies</i> (Eds. Rai, A.C., Rai, A., Rai, K.K., Rai, V.P. and Kumar, A.). Woodhead Publishing, United Kingdom.Pp. 241-257. (ISBN-978-0-12-822849-4)

12.	Pandya, J.R., Patel, N.M., Ramya R., Chawla S.L. and Mahatma, L. (2021). Important diseases of Rose (<i>Rosa</i> spp.) and their management. In: <i>Diseases of Horticultural Crops: Diagnosis and Management</i> (Eds. Srivastava J. N. and Singh A. K.). 3:149-168, Ornamental Plants and Spice Crops, CRC Press, Abingdon, Oxon, UK. Pp. (ISBN-9781003160465)
13.	Pareek, N., Swami, P. and Gupta, S. (2021). Agromet advisory services to minimize weather risk in agricultural planning. In: <i>Agroforestry Practices and Climate Change</i> , New Delhi. Pp. 37-44. (ISBN-978-81-950753-6-2)
14.	Patel, Nilam V. (2021). Recent development in preparation of IMF (Jam and Jelly) from fruits. NAHEP, CAAST, NAU, Navsari
15.	Patil, S.J., Kaswala, A.R. and Tandel, B.M. (2021). <i>Phalpako ma sendriya kheti</i> . In: <i>Phalpako</i> . Pub. DEE NAU, Navsari. Pp 46-55. (Uni. Pub. no.5: 42: 2021)
16.	Rathod Hetal, Pandey, A.K., M. Dudhat and Madineni Tejaswini (2021). Seed dormancy and germination. In: <i>Horticulture Basic Principles</i> (Eds. Pranava Pandey, Pandey, A.K. and Sanjeev Kumar S.). Nipa GENX Electronic Resources and Solutions P. LTD., New Delhi. Pp. 33-42. (ISBN-978-93-91383-96-1)
17.	Sarkar, M., K.D. Desai, B.K. Patel and H.B. Patel (2022). Integrated disease and insect management in Elephant Foot Yam [<i>Amorphophallus paeoniifolius</i> (Dennst.) Nicolson]. In: <i>Crop Protection-Driven Food Safety and Security</i> (Ed. Ghatak Abhiji). International Books & Periodical Supply Service, pp: 175-179. (ISBN-978-93-90425-60-0)
18.	Suthar, K.P., B.K. Rajkumar, Preeti R. Parmar, and Diwakar Singh (2020). Molecular mechanism underlying Chickpea - <i>Fusarium oxysporum</i> f. sp. <i>ciceri</i> Interaction. In: <i>Sustainable Agriculture Reviews- 51</i> (Eds. Guleria, P., Kumar, V. and Lichtfouse, E.), <i>Legume Agriculture and Biotechnology</i> , 2: 213-246. (ISBN-978-3-030-68827-1).

9 | College of Forestry Navsari

The Institute

The Faculty of Forestry came into existence in the year 1988 and started imparting education leading to B.Sc. (Forestry) degree. Thereafter, post graduate programmes leading to M.Sc. (Forestry) and Ph.D. (Forestry) degrees commenced from 1993-94 and 2006-07, respectively. On receipt of fund from ICFRE, Dehradun for construction of College and Hostel buildings, a separate College of Forestry was established. Further, Government of Gujarat sanctioned plan project on Strengthening of College of Forestry, Navsari Agricultural University, Navsari with 36 faculty positions including one Principal position. Meanwhile, 31



teaching staff members were recruited in the College of Forestry in 2010, as per the recommendations of IV Dean's committee of ICAR. Thus, College of Forestry started functioning independently from the year 2010. This college is accredited by ICAR, New Delhi for a period of five years up to 31 Mar. 2021. Further, this college is also accredited by ICFRE, Dehradun with A* ranking for a period of five years up to 21 June 2022. Total 486 B.Sc. (Forestry), 155 M.Sc. (Forestry) and 33 Ph.D. (Forestry) students passed out up to March, 2022.

Faculty information

Sr. No.	Name of the Post	Sanctioned posts	Filled posts	Composition of filled posts							
				Educational qualification				Domicile state		Gender	
				Master		Doctoral		Gujarat	Out states	Male	Female
				Gujarat	Out states	Gujarat	Out states				
1	Principal	1	1	0	1	0	1	0	1	1	0
2	Professors	4	3	2	1	2	1	2	1	3	0
3	Associate Professors	10	2	0	2	0	2	0	2	2	0
4	Assistant Professors	21	21	16	5	18	3	11	10	21	0
Total		36	27	18	9	19	8	13	14	27	0

List of Departments

1.	Silviculture and Agroforestry (SAF)	4.	Natural Resource Management (NRM)
2.	Forest Biology and Tree Improvement (FBT)	5.	Basic Science and Humanities (BSH)
3.	Forest Products and Utilization (FPU)	6.	Wildlife Sciences (WLS)

Academic Programmes offered

Degree Programmes	Duration	Total Credits
B.Sc. (Hons) Forestry	8 Semesters	87+98 = 185
M.Sc. (Forestry)	4 Semesters	40+20 = 60
Ph.D. (Forestry)	6 Semesters	30+45 =75

Under Graduate Credit details (As per V Deans' committee recommendations)

Semesters	Number of Courses	Total Credits (Theory +Practical)
First	08+2*	21 (13+8)
Second	10+2*	25 (16+9)
Third	08+1*	23 (14+9)
Fourth	08+2*	24 (14+10)
Fifth	06+1*+1**	23 (11+12)
Sixth	08+1*+1**	25 (12+13)
Seventh	07	23 (0+23)
Eighth	05+1*	21 (7+14)
Total		185 (87+98)

*Non credit courses; ** ELP courses

Under Graduate Credit details (As per V Deans' committee recommendations)

SN	Disciplines of PG Programmes	Masters' Degree	Doctoral Degree
1	Silviculture and Agroforestry	Yes	Yes
2	Forest Biology and Tree Improvement	Yes	Yes
3	Forest Products and Utilization	Yes	Yes
4	Natural Resource Management	Yes	Yes
Total		05	04

Students Information

Summary of Students Admitted during AY 2021-22

Degree	Gender	Intake capacity	Gujarat							ICAR	Foreign	Grand Total
			Gen	SEBC	SC	ST	CBSE	EWS	Total			
B.Sc. (Hons.) Forestry	Male	66	03	13	03	05	01	08	33	01	-	34
	Female		05	06	-	03	01	02	17	02	-	19
	Total		08	19	03	08	02	10	50	03	-	53
M. Sc. (Forestry)	Male	29	-	-	-	-	-	-	-	-	-	-
	Female		04	01	01	01	-	-	07	-	-	07
	Total		04	01	01	01	-	-	07	-	-	07
Ph. D. (Forestry)	Male	06	-	01	-	01	-	-	02	-	-	02
	Female		-	-	-	-	-	-	-	-	-	-
	Total		-	01	-	01	-	-	02	-	-	02
Grand Total		101	12	21	04	10	02	10	59	03	-	62

Summary of Students Enrolled during AY 2021-22

Degree	Year	Gender	Gujarat							ICAR	Foreign	Total
				SEBC	SC	ST	CBSE	EWS	Total			
B.Sc. (Hons.) Forestry	1 st	Male	03	10	02	04	01	07	27	02	-	29
		Female	05	06	-	02	01	02	16	01	-	17
	2 nd	Male	02	16	02	03	02	05	30	04	-	34
		Female	01	05	-	01	-	01	08	01	-	09
	3 rd	Male	05	07	02	03	01	02	20	04	-	24
		Female	-	04	01	02	-	02	09	04	-	13
	4 th	Male	05	12	-	01	-	-	18	03	-	21
		Female	02	04	01	03	03	-	13	03	-	16
Sub-total			23	64	08	19	08	19	141	22	-	163
M.Sc. (Forestry)	1 st	Male	-	-	-	-	-	-	-	-	-	-
		Female	04	01	01	01	-	-	07	-	-	07
	2 nd	Male	01	-	-	01	-	-	02	01	-	03
		Female	02	01	01	-	-	01	05	03	-	08
	Sub-total			07	02	02	02	-	01	14	04	-
Ph.D. (Forestry)	1 st	Male	-	01	-	01	-	-	02	-	-	02
		Female	-	-	-	-	-	-	-	-	-	-
	2 nd	Male	01	-	01	-	-	-	02	-	-	02
		Female	01	-	-	-	-	-	01	-	-	01
	3 rd	Male	01	-	01	-	-	-	02	01*	-	03
		Female	-	01	-	-	-	-	01	-	-	01
Sub-total			03	02	02	01	-	-	08	01	-	09
Grand Total			33	68	12	22	08	20	163	27	-	190

* Sponsored candidate

Summary of passed out students during AY 2021-22

Gender	Distribution of students in different classes				
	First with Distinction	First class	Second class	Passed class	Total
Under Graduate level					
Male	01	01	03	-	05
Female	-	02	07	-	09
Total	01	03	10	-	14
Master's level					
Male	04	03	01	-	08
Female	02	05	-	-	07
Total	06	08	01	-	15
Doctoral level					
Male	01	-	-	-	01
Female	-	-	-	-	-
Total	01	-	-	-	01

Student's Fellowship during AY 2021-22

Name of fellowships	Under-graduate		Masters		Doctorate		Total
	No. of Students		No. of Students		No. of Students		
	Male	Female	Male	Female	Male	Female	
NTS-UG	11	07	-	-	-	-	18
NTS-PG	-	-	-	01	-	-	01
ICAR-JRF	-	-	02	01	-	-	03
STUDENT READY	37	43	-	-	-	-	80
NAU PG fellowship	-	-	-	04	01	01	06
NAU Girls meritorious fellowship	-	15	-	-	-	-	15
SC fellowship	04	02	-	01	-	-	07
ST fellowship	08	06	-	01	-	-	15
SEBC fellowship	-	-	-	-	-	-	-
Total	60	73	02	08	01	01	145

Cut off marks for admission in the UG degree Programme during AY 2021-22

SN	Categories	Minimum requirement of Marks (%) (PCB)	Cut of Marks (%)*
1	General	40	46.72
2	SC	35	48.17
3	ST	35	46.03
4	SEBC	40	54.57
5	Other Board	40	55.67
6	PH	35	-
7	Ex-Army	35	-
8	EWS	40	52.98

*Cumulative marks of PCB and GUJCET

Number of students qualified in ICAR JRF/SRF/NET examination or Deemed University during AY 2021-22

Name of examination	Number of students qualified	Number of students passed out
ICAR JRF	10*	14
ICAR SRF	03	15
ICAR NET	08	09

Details of students qualified in ICAR JRF examination

SN	Name of the students	Registration number	Subjects	Rank & Category
1	Rakesh Panday	3030317013	Forestry/Agroforestry & Silviculture	172-Gen 2-PWD
2	Vaghasiya Sanjana	3030317018	Forestry/Agroforestry & Silviculture	220-Gen 14-EWS
3	Chauhan Jahanvi Dilipbhai	3030317004	Forestry/Agroforestry & Silviculture	250-Gen 33-SC
4	Suruchi Kumari	3030318045	Forestry/Agroforestry & Silviculture	94-Gen 9-SC
5	Prajapati Maheshkumar	3030318034	Forestry/Agroforestry & Silviculture	132-Gen 17-SC

6	Sujith PP	3030318044	Forestry/Agroforestry & Silviculture	183-Gen 26-SC
7	Ananya Prasad	3030318005	Forestry/Agroforestry & Silviculture	242-Gen
8	Arathi Chandran	3030318007	Forestry/Agroforestry & Silviculture	262-Gen 36-SC
9	Akhila CK	3030318004	Forestry/Agroforestry & Silviculture	266-Gen 37-SC
10	Agravat Shivaniben	3030318001	Forestry/Agroforestry & Silviculture	321-Gen 100-OBC

Details of students qualified in ICAR SRF examination

SN	Name of the students	Registration number	Subjects	Rank & Category
1	Manojkumar S	2030319003	Forestry/ Agroforestry	19-Gen 2-EWS
2	SunandaniChandel	2030319009	Forest Products and Utilization	25-Gen
3	Haripriya S	2030319001	Natural Resource Management	49-Gen 12-OBC

Details of students qualified in ICAR NET examination

SN	Name of the students	Registration number	Subjects
1	Manojkumar S	2030319003	Agroforestry
2	Yogesh Kumar	2030319011	Agroforestry
3	SunandaniChandel	2030319009	Agroforestry
4	Malek SoufilSharifmiya	1030319003	Agroforestry
5	Govind	1030319002	Agroforestry
6	Patel Yogeshkumar Dahyabhai	2030317004	Agroforestry
7	Varun Saini	2030317005	Agroforestry
8	Chauhan Punamkumari Chandrajit	2030318002	Agroforestry

Placement Cell

Degree	Total passed out students	Higher studies		Govt. Job	NGOs	Abroad	Self-entrepreneurship	Private Job	Unemployed	Total
		Gujarat	Other states							
B.Sc.	14	11	-	-	-	01	01	01	-	14
M.Sc.	15	02	-	07 [#]	-	-	-	02	04 [*]	11
Ph.D.	01 [*]	-	-	-	-	-	-	-	-	01 [*]
Total	30	13	-	07	-	01	01	03	-	25

*In-service candidate; #ad-hoc research position; *Preparing for competitive exams

Activities of students and faculty members at the College



Inauguration of Department of Wildlife Sciences at College of Forestry by Dr. Z.P. Patel, Hon'ble Vice-Chancellor, NAU, Navsari on Jun. 18, 2021.



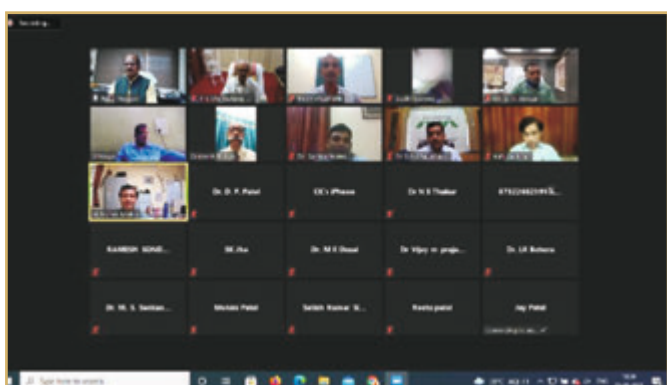
ASPEE College of Horticulture and Forestry organized "International Yoga Day" on Jun. 21, 2021 in Examination Hall of College of Forestry. Participants also joined the event through online. total 64 members including students, faculty and family members were participated.



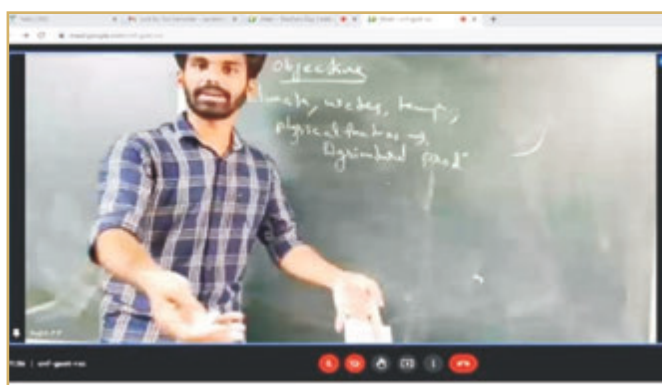
CoF celebrated Vanmahotsav-2021 week in the university campus. A special drive on Vanmahotsav was also organized at Kalthan Primary School on Aug. 13, 2021 in the presence of Dr. Z.P. Patel, Hon'ble Vice-Chancellor, NAU and other officers. Total 150 seedlings including ornamental, medicinal and economically important trees species, were planted in the school campus.



Faculty members and research staff of CoF actively participated in the "Swachhta Abhiyan" સ્વચ્છતા અભિયાન on Aug. 13, 2021.



CoF celebrated Azadi ka Amrut Mahotsav-India @ 75 by organizing a webinar on "Forest Nursery: Importance and its Management" on Aug. 23, 2021 through RKVY project. Total 50 farmers, nurserymen and students were present in the event.



CoF organized Teacher's day on 5 September 2021 on online mode and students were participated in the event.



College of Forestry organized a workshop on bamboo farming and its management in eve of World Bamboo Day on Sept. 18th, 2021 in the gracious presence of Dr. Z.P. Patel, Hon'ble, Vice-Chancellor, NAU, Navsari with other guests and faculty members



Inauguration of NAHEP sponsored "NTFPs and MAPs Museum" at College of Forestry by Dr. Z.P. Patel, Hon'ble Vice-Chancellor, NAU, Navsari along with University officers on 27 November 2021.

NSS activities during AY 2021-22

Sr. No.	Activities	Date/ Period	No of Volunteers
1	Pariksha pe Charcha	Apr. 7, 2021	20
2	Medical Camp	Jun. 19, 2021	06
3	World Yoga Day Celebration	Jun. 21, 2021	64
4	Maru gam corona mukt gam online webinar	Jul. 20, 2021	10
5	SwachhataPakhvadiyu Celebration	Aug. 13, 2021	23
6	Fit India Run 2.0	Aug. 28, 2021	76
7	Oath for Angdan	Sept. 17, 2021	62
8	Blood Donation Awareness Camp	Sept. 18, 2021	70
9	Blood Donation Camp	Sept. 24, 2021	35
10	Dandi Marathon Run	Sept. 25, 2021	40
11	Nutritional Garden Plantation	Oct. 08, 2021	80
12	Oath for Rashtriya Ekta Diwas	Oct. 27, 2021	37
13	Thalessamia Check-up Camp	Dec. 14, 2021	108

NCC activities during AY 2021-22

Sr. No.	Activities	Date/ Period	No of Volunteers
1	Independence Day Celebration	Aug. 15, 2020	57
2	Combining Annual Training Camp	Sept. 27, 2021 to Oct. 02, 2021	49
3	Combining Annual Training Camp	Nov. 19, 2021 to Nov.25, 2021	60

Ongoing Educational/Research/ Extension projects funded by Govt. of Gujarat and External agencies

Sr. No.	Name of the projects	Budget Head	Funding agency	Name of the Department
1	Strengthening of College of Forestry	12952	Plan-GoG	College of Forestry
2	Research in Agroforestry System	12130	Plan-GoG	Silviculture and Agroforestry
3	Strategies to Mitigate the Impact of Climate Change	12019	Plan-GoG	Natural Resource Management
4	Development of Bamboo Resource Center	12029	Plan-GoG	Silviculture and Agroforestry
5	A pilot project for Development of Aqua-Agroforestry model for coastal area of South Gujarat- Dandi	12030	Plan-GoG	Silviculture and Agroforestry
6	Determination of Carbon Sequestration Potential of Forest Tree Species of South Gujarat	12036	Plan-GoG	Forest Products and Utilization
7	Establishment of Forest Biodiversity Conservation Center	12053	Plan-GoG	Forest Biology & Tree Improvement
8	Popularizing <i>Melia composita</i> based Agroforestry System in Gujarat through production of quality planting material	12054	Plan-GoG	Silviculture and Agroforestry
9	Genetic enhancement of niche crops of South Gujarat through conventional and bio technological approach	12946	Plan-GoG	Basic Science & Humanities
10	Regeneration Technique for Lesser known and Threatened Tree Species of South Gujarat	12065	Plan-GoG	Silviculture and Agroforestry
11	Development of Industrial Agroforestry Models for South Gujarat region	12066	Plan-GoG	Silviculture and Agroforestry
12	Survey, selection, phytochemical evaluation, molecular, cytogenetical characterization and multilocation testing of Harar in India	18218	NMPB, New Delhi	Forest Products and Utilization
13	Demonstration of site-specific water conservation technologies for improving soil and water quality in coastal South Gujarat	18179	SSTP DST	Natural Resource Management
14	Establishment of secondary agriculture unit for skill development in students and farmers at NAU (Unit-2: Scientific Utilization of NTFPs and MAPs)	02108	ICAR-NAHEP-CAAST (World Bank Funded)	Directorate of Research, NAU Unit - 2 at Forest Products & Utilization; Forest Biology & Tree Improvement

15	Development of descriptors and DUS testing guidelines for <i>Eucalyptus urophylla</i> , <i>E. globulus</i> and <i>E. grandis</i>	18206	PPVFRA, New Delhi	Forest Biology & Tree Improvement
16	Establishment of Department of Wildlife Sciences	12071	Plan-GoG	Department of Wildlife Sciences
17	Ecological status and socio-economic efficacy of Mahua resources in Valsad district	18226	GFRE, Gandhinagar	Forest Products and Utilization
18	Wood and morphological characterization of Valsad teak for potentiality of GI tagging	18227	GFRE, Gandhinagar	Forest Biology & Tree Improvement

Educational/Infrastructural Facilities

During the reporting period, infrastructure facilities such as NTFPs & MAP CAAST museum was inaugurated on the second floor of College of Forestry. New UG laboratory on the second floor of college was created. New instruments/equipments were purchased in the Forest Products and Utilization and Silviculture and Agroforestry laboratory such as Charcoal Making Machine, Digital Refractrometer and Criterion Dendrometer. ELP units *viz.*, Development of quality planting materials in Forestry and Commercial Apiculture have been strengthened using Plan projects of GoG and other University resources.

Experiential Learning Units

Title of ELU	:	Development of Quality Planting Material in Forestry
Year of establishment	:	2016-17
Name of Manager	:	Dr. N. S. Thakur
Department	:	Silviculture and Agroforestry
Activities	:	Nursery preparatory activities; Procurement of seed, wildling and propagules <i>etc.</i> ; Procurement of material (soil, sand and FYM/vermicompost/compost), implements, polybags, containers, instruments and chemicals for treatment of soil, cuttings <i>etc.</i> ; : Preparation of soil working and bag filling; Raising seedlings and after care; Seed/cutting/propagules treatment (Physical or chemical if required); Sowing/planting in polybags/seedbeds; Intercultural operation (weeding, singling, fertilizer application <i>etc.</i>) and plant protection
Number of student's beneficiaries	:	37
Amount earned per student	:	Rs. 3593per student, 50% profit share



Students involved in planting of *Aloe vera* (left) and *Cymbopogon flexuosus* (right) in the ELP nursery for baby plant & mature leaf production and slips and herbage production, respectively.

Title of ELU	:	Commercial Apiculture
Year of establishment	:	2011-12
Name of Manager	:	Dr. A. A. Mehta
Department	:	Forest Products and Utilization
Activities	:	Various activities such as- Study of important bee species <i>i.e.</i> , <i>Apis cerana indica</i> , <i>A. mellifera</i> , <i>A. florea</i> , <i>A. dorsata</i> and Non- <i>Apis</i> species; Study of bee flora available in different months during the year; Bee floral park and growing potential bee plants; Study of morphology, anatomy, colony organization, life cycle and Social behavior of honey bee; Insect pest and diseases in honey bee; Study of different bee boxes; Study of bee equipments and their uses; Pollen identification; Seasonal management of bee colonies; Survey for identifying the natural bee hives (<i>Apis cerana</i> and <i>Trigona</i> spp.); Artificial feeding; Bee migration; Study of swarming and capturing colonies or bee swarm from nature; Queen production and rearing technique; Separation of Bee colonies and multiplication of colonies; Market study of Honey bee products; Visit to commercial apiary; Wax extraction; Study of honey extraction, processing, marketing and selling; Study of quality standards for honey; Skill and Entrepreneurship development in Beekeeping, Ethics in business; Study of Economics of Bee rearing (cost benefit analysis) were carried out and also student submitted the project Report.
Number of student's beneficiaries	:	37
Amount earned per student	:	Rs. 3026 per student, 50% profit share



On field training to trainee students on honey extraction at commercial Apiary by ELP students

Research publications

Sr. No.	Details of Publications	NAAS rating
1	Bhardan, K., York, L.M., Hasanuzzaman, M., Parekh,V., Jena, S. and Pandya, M.N. (2021). Can smart nutrient applications optimize the plant's hidden half to improve drought resistance? <i>Physiologia Plantarum</i> , 172 (2):1-9.	10.15

2	Dhaka, R.K., Sankanur, M.S., Gunaga, R.P., Thakur, N.S. and Chaudhari, C.K. (2021). Standardization of fast, efficient and improved genomic DNA extraction protocol for <i>Melia dubia</i> Cav. Using RAPD and ISSR marker assay. <i>Indian Journal of Ecology</i> , 48 (5): 1353-1357.	5.79
3	Dwivedi, D.K. and Shrivastava, P.K. (2021). Assessment of roof water harvesting potential of Navsari city of Gujarat State, India by Remote sensing and Geographic information system. <i>Journal of Applied and Natural Sciences</i> , 13 (3): 1143-1150.	4.28
4	Gunaga, R.P., Hanumantha, M., Thakur, N.S., Hegde, H.T., Sankanur, M.S. and Sondarva, R.L. (2021). Reproductive phenology and natural regeneration of Indian sandalwood: An ecological implication. <i>Wood is Good</i> , July-September issue, 2 (2):67-68.	--
5	Hasanuzzaman, M., Parvin, K., Bardhan, K., Nahar, K., Anee, T.I., Chowdhury Masud, A.A. and Fotopoulos, V. (2021). Biostimulants for the regulation of reactive oxygen species metabolism in plants under abiotic stress. <i>Cells</i> , 10 (2537):1-29.	12.60
6	Hegde, H.T., Gunaga, R.P., Sinha, S.K., Sankanur, M.S., Mehta, A.A. and Ahlawat, T.R. (2021). Mahua trading scenario: challenges and chances. <i>Indian Farmer</i> , 8 (2): 184-190.	--
7	Joglekar, A., Tadwalkar, M., Ghate, P., Gunaga, R.P. and Patwardhan, A. (2021). Seed traits and germination in <i>Syzygium cryophyllum</i> (L.) Alston: An endangered species of the Western Ghats. <i>Indian Journal of Ecology</i> , 48 (6):1760-1765.	5.79
8	Kaldate, S., Patel, A., Modha, K., Parekh, V., Kale, B., Vadodariya, G. and Patel, R. (2021). Allelic characterization and protein structure analysis reveals the involvement of splice site mutation for growth habit differences in <i>Lablabpurpureus</i> (L.) Sweet. <i>Journal of Genetic Engineering and Biotechnology</i> , 19 (34): 1-12.	--
9	Malek, S.S., Prajapati, V.M. and Desai, B.S. (2021). Enumeration of the host plants of <i>Dendrophthoe falcata</i> (L.f.) Ettingsh Var. Falcate at Navsari Agricultural University campus, Gujarat. <i>Journal of Tropical Forestry</i> , 37 (I-II): 54-62.	--
10	Mevada, R.J., Nayak, D., Patel D.P. and Tandel, M.B. (2021). Potential of tasar silkworm (<i>Antheraea mylitta</i>) excreta as fertilizer on growth, yield and quality of rice. <i>Journal of Environmental Biology</i> , 42 : 1070-1077.	6.78
11	Mevada, R.J., Tandel, M.B., Prajapati, V.M., Patel, D.P., Patel, N.K., Pathak, J. and Prajapati, D.R. (2021). Impact of INM and intercrop on soil properties under Teak (<i>Tectonagrandis</i> L.f.) based agroforestry system. <i>International Journal of Chemical Studies</i> , 9 (1):902-906	--
12	Parmar, M.R., Arunachalam, A., Jha, S.K., Tandel, M.B., Patel, D.P. and Behera, L.K. (2021). Estimation of carbon sequestration potential of horticulture-based agroforestry systems in South Gujarat. <i>Indian Journal of Agroforestry</i> , 23 (2): 99-106.	5.19
13	Parmar, M.R., Arunachalam, A., Jha, S.K., Tandel, M.B., Patel, D.P. and Patel, S.M. (2021). Variations in soil texture of different horticulture-based agroforestry systems in South Gujarat. <i>The Pharma Innovation Journal</i> , 10 (5): 87-90.	5.23
14	Patel, D.S., Bardhan, K., Patel, D.P., Parekh, V., Jena S., Narwade, A.V. and Chhatrola, H.N. (2021). Does plant root architecture respond to potassium under water stress? A case from rice seedling root responses. <i>CurrentScience</i> , 120 (6): 1050-1056.	6.73

15	Patel, M.H., Patel, A.I., Desai, B.S., Jha, S.K., Patel, D.P. and Tandel, M.B. (2020). Growth and physiological responses of vegetable crops to water deficit stress. <i>Journal of Experimental Agriculture International</i> , 42 (5): 91-101	4.89
16	Patel, N.K., Desai, D.T., Champaneri, D.D. and Tandel, M.B. (2021). Nutrient management in underutilized vegetable crop Ivy gourd [<i>Cocciniagrandsis</i> (L.) Voigt]. <i>International Journal of Environment and Climate Change</i> , 11 (8): 114-119.	5.13
17	Patel, S.N., Patel, V.P., Modha, K.G., Parekh, V.B. (2021). Rice hybrid purity testing at molecular level for development of F ₂ mapping population. <i>The Pharma Innovation Journal</i> , 10 (8): 1358-1362.	5.23
18	Patel, S.N., Patel, V.P., Modha, K.G., Parekh, V.B. and Patel, R. (2021). F ₂ variability study and phylogenetic analysis of sd1 gene in rice. <i>The Pharma Innovation Journal</i> , 10 (9): 2041-2046.	5.23
19	Sinha, S.K. (2021) Indian varsity develops wood identification AI models. <i>Wood News</i> , Sept-Oct issue, pp. 100-101.	--
20	Sinha, S.K., Arun Kumar, A.N. and Rao, R.V. (2021) Wood structure of Indian sandalwood: Its adulterants and key to identification. <i>Wood is Good</i> , 2 (2): 97-100.	--
21	Thakur, N.S., Gunaga, R.P., Hegde, H.T., Chauhan, R.S., Bhuvra, D.C. and Bhusara, J.B. (2021). Development of biomass and volume models of <i>Melia dubia</i> Cav. for early establishment. <i>Indian Journal of Ecology</i> , 48 (3): 698-701.	5.79
22	Thakur, N.S., Hegde, H.T., Chauhan, R.S., Gunaga R.P. and Bhuvra, D.C. (2021). Root sucker technique for successful clonal multiplication of <i>Melia dubia</i> Cav. without sacrifice of mother tree. <i>Current Science</i> , 121(9): 1235-1237.	6.73

For UNIVERSITY EVENTS CHAPTER
Celebration of World Bamboo Day



On the auspicious occasion of World Bamboo Day on Sept. 18th, 2021, a workshop on bamboo farming and its management was organized in the College of Forestry under the gracious presence of the president of function, Dr. Z.P. Patel, Hon'ble, Vice-Chancellor, NAU, Navsari; Chief Guest- Shri Maniswara Raja, IFS, CCF Valsad Circle and Guest of Honour- Dr. K. Sasikumar, IFS, CF, Bharuch Circle along with Shri Dhananjay Sadhu, DCF, Navsari and Shri Yuvrajsinh Jhala, DCF, South Valsad. Dr. P.K. Shrivastava, Dean ACHF, Dr Jayesh Pathak, Organizing Secretary and faculty members were present in the function

10 | ASPEE Agribusiness Management Institute, Navsari

The Institute

The ASPEE Agribusiness Management Institute, Navsari Agricultural University, Navsari is a response to the changing scenario of Indian Agriculture Sector. Considering the glut of opportunities available for competent agribusiness professionals, Navsari Agricultural University (NAU), Navsari responded to the need of the hour by establishing the ASPEE Agribusiness Management Institute (AABMI) in 2007. The Institute is well equipped to provide high standard education with well-qualified teachers



supported by highly sophisticated infrastructure facilities of Navsari Agricultural University for experiential learning. Institute is successfully running full-time two-years MBA (Agribusiness Management) programme specially designed to prepare students for careers in management related to agriculture, food, agri-business, rural and allied sectors of the economy.

The main objective of MBA (Agribusiness Management) programme is to prepare managers, business leaders and entrepreneurs in food and agribusiness sector to respond to the challenges faced by these sectors. The MBA (ABM) is a full time 2 years PG Programme. In 2017, another feather was added in the cap by initiation of Doctoral Degree Programme – Ph. D. (Agribusiness Management). The core philosophy of AABMI is to build and sustain the relationship between farming community and professional agencies involved in agribusiness. MBA (ABM) programme at ASPEE Agribusiness Management Institute is duly accredited by the Indian Council of Agricultural Research (ICAR), New Delhi. Ph.D. (Agribusiness Management) aims at preparing students that add to the collective knowledge base of agribusiness field in terms of production, processing, marketing, financing and technical assistance, preparation of products for exports, overseas marketing and government policies, *etc.* The minimum duration of the full time Ph.D. (ABM) programme is three years (six semesters).

Faculty information

Sr. No.	Name of the Post	Sanctioned posts	Filled posts	Composition of filled posts							
				Educational qualification				Domicile state		Gender	
				Master		Doctoral		Gujarat	Out states	Male	Female
				Gujarat	Out states	Gujarat	Out states				
1	Professors	1	1	-	1	-	1	-	1	-	1
2	Associate Professors	2	2	1	1	1	1	1	1	2	-
3	Assistant Professors	4	4	2	2	2	2	2	2	3	1
Total		7	7	3	4	3	4	3	4	5	2

Academic Programmes offered

Sr. No.	Degree Programmes	Duration	Total Credits
1	MBA (ABM)	4 Semesters	51+16= 67
2	Ph.D. (ABM)	6 Semesters	24+53= 77

Post Graduates Programmes offered

Sr. No.	Disciplines of PG Programmes	MBA	Doctoral Degree
1	Agribusiness Management (ABM)	Yes	Yes
	Total	01	01

Students Information

Summary of Students Admitted during AY 2021-22

Degree	Gender	Intake capacity	Gujarat							ICAR	Foreign	Grand Total
			Gen	SEBC	SC	ST	CBSE	EWS	Total			
MBA (ABM)	Male	37+4	07	05	0	0	0	06	18	03	0	21
	Female		0	01	01	01	0	01	04	05	0	09
	Total		07	06	01	01	0	07	22	08	0	30
Ph.D.	Male	03	-	-	-	01	-	-	01	-	-	01
	Female		-	-	-	-	-	-	-	-	-	0
	Total		-	-	-	01	-	-	01	-	-	01
Grand Total		44	07	06	01	02	0	07	23	08	0	31

Summary of Students Enrolled during AY 2021-22

Degree	Year	Gender	Gujarat							ICAR	Foreign	Total
			Gen	SEBC	SC	ST	CBSE	Total				
MBA (ABM)	1 st	Male	7	5	0	0	6	18	3	-	21	
		Female	0	1	1	1	1	4	5	-	09	
	2 nd	Male	4	9	0	2	9	24	6	-	30	
		Female	3	1	1	1	1	7	1	-	08	
	Sub-total		14	16	02	04	17	53	15	-	68	
Ph.D.	1 st	Male	-	-	-	1	-	1	-	-	01	
		Female	-	-	-	-	-	-	-	-	0	
	2 nd	Male	-	-	-	-	-	-	-	-	-	
		Female	-	-	-	-	-	-	-	-	-	
	3 rd	Male	0	2	-	-	-	2	-	-	02	
		Female	1	0	-	-	-	1	-	-	01	
	Sub-total		01	02	0	1	0	04	0	-	04	
Grand Total		15	18	02	05	17	57	15	-	72		

Summary of passed out students during AY 2021-22

Gender	Distribution of students in different classes				
	First with Distinction	First class	Second class	Passed class	Total
MBA					
Male	2	21	4	-	27
Female	2	6	0	-	8
Total	4	27	4	-	35

Student's Fellowship during AY 2021-22

Sr. No.	Name of fellowship	Masters		Doctorate		Total
		No. of Students		No. of Students		
		Male	Female	Male	Female	
1	NAU PG Fellowship	3	1	0	0	04
2	SC/ST/SEBC Fellowship	8	5	0	0	13
3	NTS-PG	5	4	0	0	09
4	ICAR-JRF	2	0	0	0	02
5	Others	0	0	1	1	02
	Total	18	10	1	1	30

Placement Cell

Degree	Total passed out students	Higher studies		Govt. Job	NGOs	Abroad	Self-entrepreneurship	Private Job	Unemployed
		Gujarat	Other states						
M.B.A.	35	-	-	-	-	-	-	34	1
Total	35	-	-	-	-	-	-	34	1

Activities of students and faculty members at the College



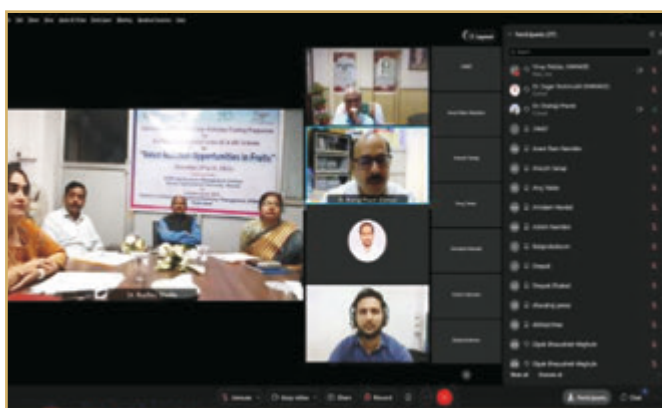
AABMI organized An Online Orientation Programme on “Developing Collaborative Entrepreneurial and Start-up Culture at NAU, Navsari” by University Student Startup Cell, NAU on April 8, 2021. The programme was graced by Hon'ble Vice Chancellor, NAU, Dr. Z.P. Patel; Dr. Ramesh Mittal, Director CCS, NIAM as Chief Guest; Dr. S.R. Chaudhary, Director of Research and Dean PG Studies as Guest of honour; Dr. H.V. Pandya, Registrar as Guest of honour along with Dr. Ruchira A. Shukla, Dr. Swati Sharma and other faculty members.



AABMI also organized Online Sensitization Workshop on “Opportunities for Innovation and Entrepreneurship in Agriculture” on July 13, 2021. This programme was graced by Hon'ble Vice Chancellor, Dr. Z. P. Patel in the presence of University officers and faculty members of AABMI and NAHEP CAAST project staff. Total 350 participants benefited from the workshop.



AABMI, Navsari organized a National Level Webinar on “Role of Farmer Producer Organizations (FPO's) in Linking Farmers to Markets” on August 12, 2021. Hon'ble Vice Chancellor was President of the webinar. Many university officers graced the occasion. Total 280 participants including faculties, students, industry practitioners, professionals from various FPO's, farmers and government officials from 24 states of the country benefited from the Webinar.



AABMI, Navsari organized Online Three days Refresher Training Program on “Value Addition Opportunities in Fruits” under Agriclincs & Agribusiness Centre Scheme during December 29-31, 2021 in collaboration with MANAGE, Hyderabad



ASPEE Agribusiness Management Institute organized one day Pre-Placement Preparatory Training on “Campus to Corporate – C₂C” for MBA (ABM) and Ph.D. (ABM) students by the University Placement & Counselling Cell, DSW Office of NAU on November 27, 2021.

Ongoing Educational/Research/ Extension projects funded by Govt. of Gujarat and External agencies

Sr. No.	Name of the projects	Budget Head	Funding agency	Name of department
1	Strengthening Institute of Agribusiness Management, Navsari Phase-II	12245	Plan Project Government of Gujarat	AABMI
2	Establishment of Research Centre on Agricultural Marketing	12951	Plan Project Government of Gujarat	AABMI

Educational/Infrastructural Facilities

State-of-the-art infrastructure matching with global standards of quality education has been established at AABMI with distant vision. Infrastructure facilities includes ergonomically designed class rooms and conference hall well equipped with LCD, Interactive board, Multimedia facilities, projector, computer and TV. The Institute has its own reading room facility. A separate Information Technology Centre is created in the Institute with one student - one computer facility. AABMI has a well-equipped Seminar Hall with the seating capacity of around 80 persons. The institute also have well facilitated P.G. Boys Hostel with 44 room of 88 students capacity.

Research publications

Sr. No.	Details of Publication	NAAS rating
1	Dhimar, Pand Swati Sharma (2022). An analysis of consumer buying behaviour and preference for Mango pulp in Bardoli City of South Gujarat. <i>Frontiers in Crop Improvement</i> , 10 (II):924-928.	-
2	Choudhary, K., Shukla, R. A. and Makadia, J.J. (2021). Problems faced by entrepreneurs during establishment of agriventures under AC and ABC scheme in Gujarat. <i>International Journal of Global Science and Research</i> , 8 (2): 1531-1536.	2.77
3	Thakkar, M.G., Vashi, H.G., Motiyani, R.J. and Patel, B.G. (2021). Training need identification of contract employees of ESSAR Ports Limited. <i>Pacific Business Review International</i> , 14 (5): 88-95.	-
4	Uikey, A.A. and Thakkar, M.G. (2021). Impact of COVID-19 on Consumers' buying behaviour and consumption pattern towards milk in Nagpur City of Maharashtra. <i>Asian Journal of Agricultural Extension, Economics & Sociology</i> , 39 (8): 40-47.	4.86
5	Thorat, V.S., Garde, Y. and Patil, K. (2022). Factors governing food security among rural households in tribal district of south Gujarat. <i>Gujarat Journal of Extension Education</i> , 33 (1), 84-88.	4.96
6	Chaudhary, U. and Thorat, V. (2021). Dairying as vehicle to raise incomes of small farmers in Haryana. <i>The Haryana Veterinarian</i> , 60 (1): 51-56.	5.58
7	Garde, Y.A., Chavada, R.R., Thorat, V.S. and Pisal, R.R. (2021). Forecasting of area, productivity and prices of mango in Navsari district, Gujarat. <i>Journal of Crop and Weed</i> , 17 (3), 17-28.	5.46
8	Thorat, V.S. and Chaudhary, U. (2021). Role of dairy farming as a stimulant to enhance livelihood of rural farm households in Gujarat. <i>International Journal of Livestock Research</i> , 11 (4): 88-94.	5.36
9	Garde, Y.A., Gundaniya, H.V., Thorat, V.S., Pisal, R.R. and Shrivastava, A. (2022). Forewarning of insect incidence based on weather variables for management of cropping practices in Sugarcane. <i>Environment Conservation Journal</i> , 23 (1&2): 211-216.	5.66

Book Chapters

1	Thakkar, M.G. (2021). Employability Issues. New Education Policy 2020 & Quality Concerns in Higher Education, pp. 305-306. ISBN 978-81-949060-5-5
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Popular article

1	Thakkar, M.G. (2021). Management v/s Professional Management. <i>Sangarsh Smruti Granth</i> , 49. – Silver Jubilee Souvenir of The Texco Co -operative Bank Ltd., Surat (Gujarat).
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11 | ASPEE SHAKILAM BIOTECHNOLOGY INSTITUTE SURAT

The Institute

The ASPEE SHAKILAM Biotechnology Institute (ASBI), Surat (formerly known as ASPEE SHAKILAM Agricultural Biotechnology Institute) is one of the constituent colleges of Navsari Agricultural University, Navsari and it has been established with the financial aid of Department of Agriculture and Co-operation, Government of Gujarat in April, 2012. As per the ICAR guidelines and approval of University (Notification No. 613/2017), the institute has accepted the 5th Dean committee's recommendation and offering B.Tech (Biotechnology) degree in the place of B.Sc. (Agril. Biotechnology) from 2017-18 onwards, accordingly, the institution name has been changed as ASPEE SHAKILAM Biotechnology Institute. The institute provides various facilities including state of art instruments, modern laboratories with well-equipped instruments, library, e-Lab and also women plant tissue culture training centre with qualified academic staff. The institute is achieving the significant recognition for its high quality of teaching and research. Besides these, in the view of women empowerment mission, institute is offering exclusive women plant tissue culture training for catering the skill development in women to become entrepreneur.



Faculty information

Sr. No.	Name of the Post	Sanctioned posts	Filled posts	Composition of filled posts							
				Educational qualification				Domicile state		Gender	
				Master		Doctoral		Gujarat	Out states	Male	Female
				Gujarat	Out states	Gujarat	Out states				
1.	Professors	3	3	3	0	3	0	3	0	3	0
2.	Associate Professors	5	4	0	0	3	1	2	2	4	0
3.	Assistant Professors	10	8	0	0	7	2	7	1	5	3
Total		18	15	3	0	13	2	12	3	12	3

List of Division/Section

1.	Plant Biotechnology	3.	Microbial and Environmental Biotechnology
2.	Animal Biotechnology	4.	Bioinformatics

Academic Programme offered

Degree Programme	Duration	Total Credit
B. Tech. (Biotechnology)	8 Semesters	102+76= 184

Under Graduate Credit details (As per V Deans' committee recommendations)

Semesters	Number of Courses	Theory + Practical = Total Credit
First	10	15+7+1 NC =23
Second	9	15+7+1 NC =23
Third	9	15+8+1 NC =24
Fourth	9	15+8+1 NC =24
Fifth	9	20+4 =24
Sixth	8	22+4 =24
Seventh	02 (Student READY)	0+20+2 NC=22
Eight	02 (Student READY)	0+20 =20
Total		102+76=184

Students Information

Summary of Students Admitted during AY 2021-22

Degree	Gender	Intake capacity	Gujarat							ICAR	Foreign	Grand Total
			Gen	SEBC	SC	ST	CBSE	EWS	Total			
B. Tech. (Biotech.)	Male	66	13	03	01	03	02	02	24	04	00	28
	Female		04	00	01	04	01	02	12	02	00	14
	Total	66	17	03	02	07	03	04	36	06	00	42

Summary of Students Enrolled during AY 2021-22

Degree	Year	Gender	Gujarat							ICAR	Foreign	Total
			Gen	SEBC	SC	ST	CBSE	EWS	Total			
B. Tech. (Biotech.)	1 st	Male	13	03	01	03	02	02	24	04	0	28
		Female	04	00	01	04	01	02	12	02	0	14
	2 nd	Male	10	03	01	02	00	04	20	03	0	23
		Female	02	01	00	00	01	00	04	02	0	06
	3 rd	Male	10	03	00	03	00	05	21	03	0	24
		Female	09	03	00	01	01	01	15	02	0	17
	4 th	Male	16	06	01	03	02	00	28	01	0	29
		Female	04	03	02	01	01	00	11	04	0	15
Total		68	22	06	17	08	14	135	21	0	156	

Summary of passed out students during AY 2021-22

Gender	Distribution of students in different classes				
	First with Distinction	First class	Second class	Passed class	Total
Under Graduate level					
Male	0	8	7	0	15
Female	1	6	4	0	11
Total	1	14	11	0	26

Student's Fellowship during AY 2021-22

Name of fellowship	Under-graduate		Total
	No. of Students		
	Male	Female	
NTS-UG	08	08	16
STUDENT READY	30	14	44
NAU Girls meritorious fellowship	-	16	16
SC/ST/fellowship	07	08	15
SEBC fellowship	17	11	28
SHAKILAM foundation	04	06	10
EWS	17	02	19
Total	83	65	148

Cut off marks for admission in the UG degree Programme during AY 2021-22

Sr. No.	Category	Minimum requirement of Marks (%) (PCB)	Cut of Marks (%)*
1	General	40	52.27
2	ST	35	34.25
3	SC	35	45.35
4	OBC/SEBC	40	51.72
5	EWS	40	51.72

*The cut of marks is the cumulative of 60% marks of main subjects (Physics, Chemistry and Biology) and 40% marks of GUJCET for the admission.

Number of students qualified in ICAR JRF/SRF/NET Examination or Deemed University during AY 2021-22

Name of examination	Number of students qualified	Number of students passed out students
ICAR JRF	09	26
GATE-2022	05	26

Details of students qualified in ICAR JRF examination

Sr. No.	Name of the students	Registration number	Subjects	Rank & Category
1.	Treesa Thomas	3120817032	Plant Biotechnology	70-Gen
2.	Mitinkumar V. Balar	3120817003	Plant Biotechnology	290-Gen/ 33-EWS
3.	Divyeshaben D. Savaliya	3120817029	Plant Biotechnology	341-Gen
4.	Jigneshbhai B. Kaklotar	3120817013	Plant Biotechnology	419-Gen/176-OBC
5.	Maulik R. Patel	3120817022	Plant Biotechnology	583-Gen/53-EWS
6.	Priyankaben K. Sabhadiya	3120817028	Plant Biotechnology	610-Gen/250-OBC
7.	Nisha G. Savaliya	3120817030	Plant Biotechnology	621-Gen
8.	Ashishbhai H. Bavliya	3120817006	Plant Biotechnology	646-Gen/260-OBC
9.	Apurnakumari H. Patel	3120817020	Plant Biotechnology	649-Gen/31-ST

Details of students qualified GATE-2022 examination

Sr. No.	Name of the students	Registration number	Subjects	All India Rank
1.	Ritu Kumari	3120818038	Biotechnology	510
2.	Priti Kumari	3120818035	Life science	2505
3.	Ghanshyam Saini	3120818018	Life science	4349
4.	Shrimali Dolly V.	3120818040	Life science	14633
5.	Der Rajviben R.	3120818014	Life science	4499

Placement Cell

Degree	Total passed out students	Higher studies		Private Jobs	Govt. Job	NGOs	Abroad	Self - entrepreneur	ship unemployed	Total
		Gujarat	Other states							
B. Tech. (Bio Technology)	26	06	02	06	00	00	00	00	12	26
Total	26	06	02	06	00	00	00	00	12	26



ASBI, Surat celebrated the International Day of Yoga on Jun. 21, 2021 through virtual mode



ASBI, Surat celebrated Van Mahotsav on Jul. 16, 2021



ASBI, Surat celebrated Vigilance Awareness Program during Aug. 1-15, 2021



ASBI, Surat celebrated the 125th Birth Anniversary of Shri Zaverchand Meghani on Sept. 3, 2021



Students and faculty of ASBI, Surat taking Pledge on the occasion of Organ Donation on Sept. 17, 2021



ASBI, Surat organized Campus to Corporate Training Programme for student's career development on Oct. 22, 2021



ASBI, Surat celebrated National Unity Day on Oct. 31, 2021



ASBI, Surat celebrated Constitution Day on Nov. 26, 2021



ASBI, Surat celebrated Agriculture Education Day on Dec. 3, 2021



ASBI, Surat organized Orientation Programme for first semester students on Feb. 28, 2022



ASBI, Surat organized the Inter-Collegiate Cultural Programme (Gunjan 2021-22) during Mar. 25-26, 2022



Student's participation in various events of Gunjan 2021-22 organized by ASBI, NAU, Surat during Mar. 25-26, 2022

NSS/Other activities during AY 2021-22

Sr. No.	Activity	Date/ period	No of Volunteers
1.	International Yoga day celebration (Virtual)	Jun. 21, 2021	56
2.	Van Mahotsav Celebration	Jul. 16, 2021	30
3.	SwachhtaPakhwara	Aug. 1-15, 2021	50
4.	125 th Birth Anniversary of Shri ZaverchandMeghani	Sept. 3, 2021	65
5.	Pledge taking ceremony on Organ Donation	Sept. 17, 2021	24
6.	5 th Campus to Corporate Training Programme	Oct. 22, 2021	85
7.	National Unity Day	Oct. 31, 2021	20
8.	Constitution Day Celebration	Nov. 26, 2021	32
9.	Agriculture Education Day	Dec. 3, 2021	24
10.	Surya Namaskar Programme (Virtual)	Jan. 14, 2022	42
11.	National Voter's Day	Jan. 25, 2022	18

Ongoing Educational/Research/ Extension projects funded by Govt. of Gujarat and External agencies

Sr. No.	Name of the projects	Budget Head	Funding agency	Name of department
1.	Establishment of ASPEE SHAKILAM Biotechnology Institute	12248	Govt. of Gujarat (Plan Project)	ASPEE SHAKILAM Biotechnology Institute

Educational/Infrastructural Facilities

The institute has well-furnished four lecture halls, two examination halls, faculty rooms, auditorium, AC tissue culture laboratory and conference room with LCD facilities for proper teaching and learning process at UG degree programme. All departments possess modern laboratories, which are well equipped with highly sophisticated equipments. The Institute has a Central Instrumentation Laboratory having state of art instruments like Thermal Cycler, Gel Documentation System, Electrophoresis, Real Time PCR, Lyophilizer, Freezer (-80), Freezer (-20), Vortex, Laminar Air Flow, Stereo Zoom Microscopes, Nanodrop, Fermenter, UV Trans illuminator, UHPLC, Hi-glass Belder, Digital Dry Block Heater, Sonicator, Incubator Shakers, Atomic Absorption Spectrophotometer, Steriozoom Microscope with camera, Highly Pressurized Reactor, Muffle Furnace, Fluorescence Spectrophotometer, Vacuum Rotary Evaporator, Distillation Unit, Gel Electrophoresis system and others.

The institute is also equipped with bioinformatics computer laboratory with 60 computers which help to provide trainings among the students. The institute possesses two well managed hostels both for boys and girls with capacity of accommodating 104 boy and 90 girl students. The institute is also having internet facility, locally networked and connected through Wi-Fi to the central server and which is available for students to access e-books, study materials, previous question papers, daily circulars for their project work and seminar presentations and exam preparations.

Research publications

Sr. No.	Details of Publication	NAAS rating
1.	Jajda, H.M. and Thakkar, V.R. (2022). Palmitic acid induced NADPH oxidase-dependent hypersensitive cell death in <i>Cercosporapersonata</i> (Berkeley & Curtis) Ellis infected groundnut (<i>Arachis hypogaea</i> L.). <i>Current Agriculture</i> , 39 (1&2): 9-15.	-
2.	Liu, H., Prajapati, V., Prajapati, S., Bais, H. and Lu, J. (2021). Comparative genome analysis of <i>Bacillus amyloliquefaciens</i> focusing on phylogenomics, functional traits, and prevalence of antimicrobial and virulence genes. <i>Frontiers in Genetics</i> , 12 : DOI : 10.3389/fgene.2021.724217.	10.60

3.	Mehta, V.N., Desai, M.L., Basu, H., Singhal, R.K. and Kailasa, S.K. (2021). Recent developments on fluorescent hybrid nanomaterials for metal ions sensing and bioimaging applications: A review. <i>Journal of Molecular Liquids</i> , 333 :DOI: 10.1016/j.molliq.2021.115950.	12.17
4.	Modi, K. and Jha, S. (2022). <i>Bacillus consortia</i> as a sustainable approach for plant growth promotion in Rice (<i>Oryza sativa</i> L.), <i>Current Agriculture</i> , 39 (1&2):28-49.	-
5.	Modi, K., Jha, S., Patel, P. and Suthar, H. (2022). Isolation and characterization of <i>Bacillus consortia</i> for plant growth promotion in Rice (<i>Oryza sativa</i> L.). <i>Plantae Scientia</i> , 5 (1): 17-28.	-
6.	Patel, A. and Vaghasiya, H. (2021). Vancomycin Resistant Enterococci (VRE): A challenge to researchers and clinicians. <i>Journal of Cell and Tissue Research</i> , 21 (1): 7063-7067.	4.39
7.	Patel, P., Naik, A., Patel, P. and Modi, K. (2022). Plant growth promoting flower microbiota—A slow shift in Phyllosphere Research. <i>Current Agriculture</i> , 39 (1&2):25-27.	-
8.	Patel, P., Patel, R. K., Modha, K.G., Singh, T.J. and Singh, M. (2021). Genetic variability and molecular diversity analysis in Turmeric (<i>Curcuma longa</i> L.). <i>Indian Journal of Agricultural Research</i> . (DOI: 10.18805/IJARE.A-5800).	5.20
9.	Patel, S., Parekh, V., Patel, K. and Jha, S. (2021). Plant growth-promoting activities of <i>Penicillium sp.</i> NAUSF2 ameliorate <i>Vigna radiata</i> salinity stress in phosphate-deficient saline soil. <i>Applied Biochemistry and Microbiology</i> , 57 (4): 500-507.	6.89
10.	Prajapati, A., Patel, P., Trivedi, N., Bhimani, H. and Kanetiya, H. (2022). Chemigation versus foliar application for management of pest complex of cowpea (<i>Vigna unguiculata</i> L. Walp) under South Gujarat conditions. <i>The Pharma Innovation Journal</i> , 11 (1): 306-309.	5.23
11.	Sevugapperumal, N., Prajapati, V. S., Murugavel, V. and Perumal, R. (2021). Draft genome sequence of <i>Bacillus amyloliquefaciens</i> strain CB-A biological control agent and plant growth-promoting bacterium isolated from Cotton (<i>Gossypium</i> L.) rhizosphere in Coimbatore, Tamil Nadu, India. <i>Frontiers in Genetics</i> : 1388 . DOI: 10.3389/fgene.2021.704165.	10.60
12.	Suthar, H., Patel, R., Modi, K., Patel, P. and Khunt, M. (2022). Growth parameters of <i>Pleurotus ostreatus</i> (Jacq. Fr.) Kumm cultivation using Paddy straw as a substrate. <i>Plantae Scientia</i> , 5 (1): 12-16.	-

Book Chapters in Edited book

Sr. No.	Details of publication
1.	Chauhan, Y.B., Sharma, H. and Patel, C.J. (2021). Halka Dhanya Pakoma Pak Samrakshan. Pak Samrakshan (Ed. Director of Extension Education, AAU, Anand). P. 50-52.
2.	Jha, A., Daxini, N., Markande, A. and Jha, S. (2022). Targeting vital dimorphic fungal infections in women by phytochemical-assisted herbal Nano-system. In: Engineered Nanomaterials for Innovative Therapies and Biomedicine. Springer publication, Pp. 143-160. DOI: 10.1007/978-3-030-82918-6_6.
3.	Kailasa, S.K., Mehta, V.N. and Rohit, J.V. (2022). Miniaturized capillary electrophoresis for the separation and identification of Biomolecules. Miniaturized Analytical Devices: Materials and Technology, Pp. 1-19.

4.	Mehta, V.N., Prajapati, V.S. and Rohit, J.V. (2022). Miniaturized analytical technology in agriculture. <i>Miniaturized Analytical Devices: Materials and Technology</i> , Pp. 49-70.
5.	Modi, K., Jha, S. and Patel, S. (2021). Isolation and characterization of <i>Bacillus consortia</i> for plant growth promotion in Rice (<i>Oryza sativa</i> L.). Pp. 1-130. 1 st Edition (ISBN: 9789390660766), Satish Serial Publishing House.
6.	Patel H.K., Vasava D.K., Bhalani H.N. and Kalaria R.K. (2022). Proteomics: A tool for studying environmental microbial communities in Bacterial community structure of activated processes, Nova publication house. Pp. 78-89.
7.	Patel, C.J., Radadiya Nirav and Patel Akash (2021). Dhanya Pakoni Jivato nu Jaivik Niyantaran. In Sovenier on "Jivato ane Rogona Jaivik Niyantaran dwara Bagayati ane Khadya Pakoni Gunavatta ane Salamatini Jalavani" (Eds. L.V. Ghetiya, K.B. Rakholiya, Sushil Singh and T.R. Ahlawat). A state level seminar organised by NAHEP- CAAST & PPAG, Navsari on December 30, 2021. p.115
8.	Patel, H.K., Jokhakar, P.H., Kalaria, R.K., Vasava, D.K. and Kachhadiya, R.R. (2022) Phytoremediation: A novel and promising approach for the clean-up of heavy metal-contaminated soils associated with Microbes. In: <i>Microbial Remediation of Azo Dyes with Prokaryotes</i> , CRC Press, Pp. 233-258.
9.	Patel, H.K., Joshi, M.P. and Kalaria, R.K. (2021). Biochar: a futuristic tool to remove heavy metals from contaminated soils. In: <i>Biochar and its Application in Bioremediation</i> . Springer publication, Singapore, Pp. 231-258.
10.	Patel, H.K., Kalaria, R.K. and Vasava, D.K. (2021). Prospects for exploiting microbes and plants for bioremediation of heavy metals. In: <i>Removal of Refractory Pollutants from Wastewater Treatment Plants</i> . CRC Press, Pp. 33-60.
11.	Patel, H.K., Kalaria, R.K., Jokhakar, P.H., Mehta, A.A. and Patel, H.V. (2022). An application of Bio-nanotechnology in removal of emerging contaminants from pharmaceutical waste. In: <i>Development in Wastewater Treatment Research and Processes</i> . Elsevier publication, Pp. 371-384.
12.	Patel, H.K., Kalaria, R.K., Kahimani, M.R., Shah, G.S. and Dholakiya, B.Z. (2021). Prevention and control of mycotoxins for food safety and security of human and animal feed. In: <i>Fungi bio-prospects in sustainable agriculture, environment and Nano-technology</i> . Academic Press, Pp. 315-345.
13.	Patel, H.K., Kalaria, R.K., Patel, B.Y. and Shah, G.S. (2021). Application of molecular biological tools to monitor process efficiency. In: <i>The Future of Effluent Treatment Plants</i> , Elsevier publication, Pp. 475-498.
14.	Patel, H.K., Kalaria, R.K., Vasava, D.K. and Bhalani, H.N. (2022). Ligninolytic enzymes: a promising tool for bioremediation of waste water. In: <i>Development in Wastewater Treatment Research and Processes</i> . Elsevier publication, Pp. 221-242.
15.	Patel, H.K., Khimani, M.K., Kalaria, R.K. and Vekariya, R.L. (2021). Degradation of organic dyes using novel photocatalytic techniques. In: <i>Photocatalytic Degradation of Dyes</i> . Elsevier publication, Pp. 745-763.
16.	Patel, R.K., Patel, C.J., Gajjar, S.M. and Chauhan H.R. (2021). Chanani Jivatonu Jaivik Niyantaran. In Sovenier on "Jivatoane Rogo na Jaivik Niyantaran dwara Bagayatiane Khadya Pakoni Gunavatta ane Salamati ni Jalavani" (Eds. L.V. Ghetiya, K.B. Rakholiya, Sushil Singh and T.R. Ahlawat). A state level seminar organised by NAHEP- CAAST & PPAG, Navsari on December 30, 2021. p.112.
17.	Patel, S. and Patel, P. (2022). Isolation and identification of Phytin mineralizing microbes. In: <i>Practical Handbook on Agricultural Microbiology, Humana, New York</i> , Pp. 231-235.
18.	Patel, S., Prajapati, V. and Patel, P. (2022). Isolation and screening of mineral phosphate solubilizing microorganisms. In: <i>Practical Handbook on Agricultural Microbiology</i> (pp. 187-192). Humana, New York, NY.

19.	Prajapati, V., Patel, S., Patel, R. and Mehta, V. (2022). Isolation and identification of sulfur-oxidizing bacteria. In: Practical Handbook on Agricultural Microbiology. <i>Humana, New York</i> , Pp. 197-202.
20.	Prajapati, V., Patel, S., Ray, S., & Patel, K. C. (2022). Identification of Protease Enzymes Involved in Biocontrol Activity. In: Practical Handbook on Agricultural Microbiology. <i>Humana, New York</i> , Pp. 323-329.
21.	Ray, S., Amin, D., Prajapati, V. and Patel, H. (2022). Metabolic engineering approach for advanced microbial fuel production using <i>Escherichia coli</i> . In: Status and Future Challenges for Non-conventional Energy Sources, Springer, Singapore, 2: 139-156.
22.	Rohit, J. V., & Mehta, V. N. (2022). Microvolume UV-visible spectrometry for assaying of pesticides. Miniaturized Analytical Devices: Materials and Technology, Pp. 197-217.
23.	Saxena, S.P., Patel, K.B. and Patel, H.V. (2021). KelanePapayaniJivato. Pak Samrakshan (Ed. Director of Extension Education, AAU, Anand). Pp. 228-234.

12 | COLLEGE OF AGRICULTURAL ENGINEERING & TECHNOLOGY, DEDIAPADA

The Institute

To meet the ever-increasing demand of qualified manpower in the field of emerging areas of Agricultural Engineering and Technology, Navsari Agricultural University (NAU), Navsari has established College of Agricultural Engineering and Technology, Dediapada in the academic year 2013-14. The College has the mandate for conducting educational activities and strategic research on design and development of technologies/equipments in the various departments of the college viz., Farm Machinery and Power Engineering,



Processing and Food Engineering, Soil and Water Conservation Engineering, Irrigation and Drainage Engineering Renewable Energy Engineering & Basic Engineering and Applied Science along with extension of developed technologies to farmers processors and agricultural entrepreneurs. The college is located at Parsi Tekra, Dediapada, Narmada district, 72 km East from Ankleshwar railway station and 45 km South from Rajpipala.

Faculty information

Sr. No.	Name of the Post	Sanctioned posts	Filled posts	Composition of filled posts							
				Educational qualification				Domicile state		Gender	
				Master		Doctoral		Gujarat	Out states	Male	Female
				Gujarat	Out states	Gujarat	Out states				
1.	Principal	00	00	-	-	-	-	-	-	-	-
2.	Professors	02	00	-	-	-	-	-	-	-	00
3.	Associate Professors	06	01	-	-	-	-	-	01	01	-
4.	Assistant Professors	10	09	05	02	01	01	06	03	06	03
Total		18	10	05	02	01	01	06	03	07	03

List of Departments

1	Farm Machinery and Power Engineering (FMPE)	4	Renewable Energy Engineering (REE)
2	Soil and Water Conservation Engineering (SWCE)	5	Irrigation and Drainage Engineering (IDE)
3	Processing and Food Engineering (PFE)	6	Basic Engineering and Applied Sciences (BEAS)

Academic Programmes offered

Degree Programmes	Duration	Total Credit
B. Tech. (Agril. Engg.)	8 Semesters	182
M. Tech. (Agril. Engg.)	4 Semesters	55
Ph. D. (Agril. Engg.)	6 Semesters	75

Under Graduate Credit details (As per V Deans' committee recommendations)

Semesters	Number of Courses	Total Credit (Theory + Practical)
First	9	22 (13+9)
Second	9	21 (13+8)
Third	9	22 (14+8)
Fourth	9	22 (13+9)
Fifth	9	27 (14+13)
Sixth	8	22 (22+10)
Seventh	4	27 (0+27)
Eight	4	19 (6+13)
Total		182 (85+97)

Post Graduates Programmes offered

Sr.	Disciplines of PG Programmes	M. Tech Degree	Doctoral Degree
1.	Farm Machinery and Power Engineering	Yes	Yes
2.	Soil and Water Conservation Engineering	Yes	Yes
3.	Processing and Food Engineering	Yes	Yes
4.	Renewable Energy Engineering	Yes	Yes
Total		04	04

Students Information

Summary of Students Admitted during AY 2021-22

Degree	Gender	Intake capacity	Gujarat						ICAR	Foreign	Grand Total
			Gen	SEBC	SC	ST	CBSE	Total			
B. Tech. (Agril. Engg.)	Male	30	4	9	0	4	0	17	00	00	17
	Female		0	1	0	1	01	03	00	00	03
	Total		4	10	0	5	01	20	00	00	20
M. Tech. (Agril. Engg.)	Male	11	-	-	-	-	-	-	-	-	-
	Female		-	-	-	-	-	-	-	-	-
	Total		-	-	-	-	-	-	-	-	-
Grand Total			4	10	0	5	01	20	00	00	20

Summary of Students Enrolled during AY 2021-22

Degree	Year	Gender	Gujarat						ICAR	Foreign	Total
			Gen	SEBC	SC	ST	CBSE	Total			
B. Tech. (Agril. Engg.)	1 st	Male	4	9	0	4	0	17	00	00	17
		Female	0	1	0	1	1	03	00	00	03
	2 nd	Male	4	2	0	2	1	09	00	00	09
		Female	0	1	1	2	0	04	00	00	04
	3 rd	Male	7	9	1	1	0	18	00	00	18
		Female	0	1	0	2	0	03	00	00	03
	4 th	Male	8	14	0	3	0	25	00	00	25
		Female	0	0	0	1	0	01	00	00	01
Sub-total			23	37	2	16	2	80	00	00	80
M. Tech. (Agril. Engg.)	1 st	Male	-	-	-	-	-	-	-	-	-
		Female	-	-	-	-	-	-	-	-	-
	2 nd	Male	-	-	-	-	-	-	-	-	-
		Female	-	-	-	-	-	-	-	-	-
	Sub-total			00	00	00	00	00	00	00	00
Ph. D. (Agril. Engg.)*	1 st	Male	-	-	-	-	-	-	-	-	-
		Female	-	-	-	-	-	-	-	-	-
	2 nd	Male	-	-	-	-	-	-	-	-	-
		Female	-	-	-	-	-	-	-	-	-
	3 rd	Male	03	-	-	-	-	-	-	-	03
		Female	-	-	-	-	-	-	-	-	-
	4 th	Male	04	-	-	-	-	-	-	-	04
		Female	-	-	-	-	-	-	-	-	-
Sub-total			07	00	00	00	00	00	00	00	07
Grand Total			30	37	02	16	02	80	00	00	87

*For In-service candidate

Summary of passed out students during AY 2021-22

Gender	Distribution of students in different classes				
	First with Distinction	First class	Second class	Passed class	Total
Under Graduate level					
Male	02	10	10	00	22
Female	00	00	00	00	00
Total	02	10	10	00	22

Student's Fellowship during AY 2021-22

Name of Fellowship	Under-graduate		Masters		Doctorate		Total
	No. of Students		No. of Students		No. of Students		
	Male	Female	Male	Female	Male	Female	
NAU PG fellowship	00	00	00	00	00	00	00
NAU Girls meritorious fellowship	00	00	00	00	00	00	00
SC/ST/fellowship	06	04	00	00	00	00	10
SEBC fellowship	33	02	00	00	00	00	35
General fellowship	26	00	00	00	00	00	26
Total	65	06	00	00	00	00	71

Cut off marks for admission in the B. Tech Programme during AY 2021-22

Sr.	Category	Minimum requirement of Marks (%) (PCB)	Cut of Marks (%)
1	General	40	50.80
2	ST	35	36.20
3	SC	35	00.00
4	OBC/SEBC	40	49.73
5	EWS	40	42.28
6	Other Board	40	53.31

Number of students qualified in ICAR JRF/SRF/NET examination during AY 2021-22

Name of examination	Number of students qualified	Number of students passed out students
ICAR JRF	1	22

Details of students qualified in ICAR JRF examination

Sr.	Name of the students	Registration number	Subject	Rank & Category
1.	Mr. Jadhav Kaushik	3050917008	M. Tech (Agril. Engg.) specialization in Soil and water conservation Engineering	2 nd rank

Placement Cell

Degree	Total passed out students	Higher studies		Govt. Job	NGOs	Abroad	Self-entrepreneurship	Unemployed	Private Job	Total
		Gujarat	Other states							
B.Tech. (Agril. Engg.)	28	2	1	-	-	-	8	4	13	28
Total	28	2	1	-	-	-	8	4	13	28

Activities of students and faculty members at the College



CAET, Dediapada celebrated World "No Tobacco Day" on May 31, 2021



CAET, Dediapada celebrated *Yoga Shivir* on the occasion of International Day of Yoga on Jun 21, 2021.



CAET, Dediapada organized tree plantation on Jul. 16, 2021 on the eve of 93rd ICAR foundation Day



CAET, Dediapada celebrated 75th Independence Day on Aug. 15, 2021



CAET, Dediapada organized Swachhta Pakhwada during August 1-15, 2021



CAET, Dediapada celebrated 125th Birth Anniversary of National Poet Shri Zaverchand Meghani on September 1, 2021



CAET, Dediapada organized “Poshan Vatika” awareness program on September 17, 2021



CAET, Dediapada organized “Angdan pratigna” awareness programme September 17, 2021



Studnets and staff of CAET, Dediapada involved in Fit India Freedom Run on Sept. 17, 2021.



CAET, Dediapada celebrated the “Swachhta Plog Run” on Oct. 2, 2021



Studnets and staff of CAET, Dediapada taking “Single use Plastic Pladge” on October 7, 2021



CAET, Dediapada organized “Voter Awareness Programme” on October 08, 2021

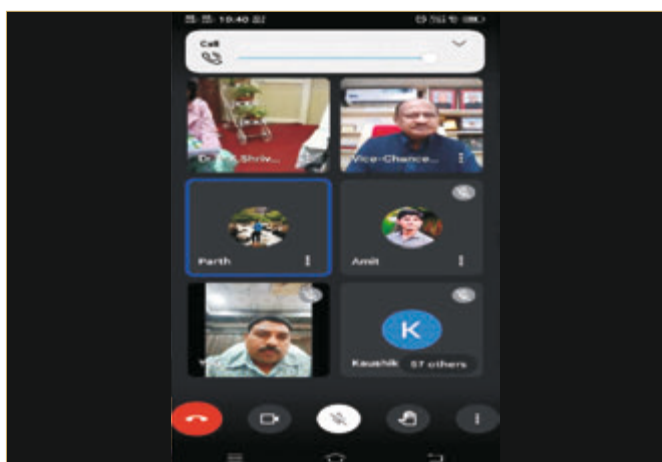


Hon'ble Vice Chancellor, Dr. Z. P. Patel visited CAET, Dediapada along with Dr. D. D. Patel, Principal, CoA, Bharuch and Dr. J.J. Pastagia, Principal, CoA, Waghai on October 21, 2021 and discussed about activities of College



CAET, Dediapada organized Sardar Vallabhbhai Patel's Birth Anniversary as "Rashtriya Ekta Diwas (National Unity Day)" on October 31, 2021

CAET, Dediapada celebrated Agricultural Educational Day on December 3, 2021



CAET, Dediapada organized interaction session for JRF qualified students through online on December 12, 2021. Dr. Z.P. Patel, Hon'ble Vice Chancellor, NAU Navsari interacted with qualified students and faculty members



CAET, Dediapada organized Essay Writing Competition on theme "Good Governance" on December 31, 2021



CAET, Dediapada organized various activities viz., National Voter Day on January 25, 2022, 73rd Republic Day on January 26, 2022 “National Voter Awareness Quiz Contest” on March 2, 2022



Activities such as “Thalassemia Awareness cum Screening Test & Blood Donation Camp (March 3, 2022)” and “Voter Awareness Poster Design & Slogan writing contest” (March 14, 2022) organized in the Campus



College organized NSS special camp at Nighat Village, near Dediapada from March 07-13, 2022
NSS activities during AY 2021-22

Sr.	Activity	Date/ period	No of Volunteers
Regular activities			
1.	World “No Tobacco Day” Celebration	May 31, 2021	40
2.	International Day of Yoga, <i>Yoga Shivir</i>	June 21, 2021	40
3.	Tree plantation drive on the eve of 93 rd ICAR foundation Day	July 16, 2021	36
4.	75 th Independence Day Celebration	August 15, 2021	40
5.	Swachhta Pakhwada	August 1-15, 2021	40
6.	Celebration of 125 th Birth Anniversary of National Poet Shri Zaverchand Meghani	September 1, 2021	40
7.	“ <i>Poshan Vatika</i> ” awareness program	September 17, 2021	32
8.	“ <i>Angdan pratigna</i> ” awareness programme	September 17, 2021	36
9.	Fit India Freedom Run <i>Celebration</i>	September 17, 2021	36

10.	Celebration of “Swachhta Plog Run” Programme	October 02, 2021	35
11.	Celebration of “Single use Plastic Pladge” Programme	October 7, 2021	40
12.	“Voter Awareness Programme”	October 08, 2021	40
13.	Hon’ble Vice Chancellor Dr. Z. P. Patel along with Dr. D. D. Patel, Principal, CoA, Bharuch and Dr. J. J. Pastagia, Principal, CoA, Waghai visited College of Agricultural Engineering and Technology, Dediapada	October 21, 2021	40
14.	Sardar Vallabhbhai Patel's Birth Anniversary is observed as “ <i>Rashtriya Ekta Diwas</i> ” or “National Unity Day”	October 31, 2022	38
15.	Agricultural Educational Day Celebration	December 3, 2021	32
16.	Hon’ble Vice Chancellor, NAU Navsari along with Dr. S. H. Sengar, Principal & Dean, CAET and Dr. Arun Lakkad, Principal, PAE, Dediapada had interacted with the JRF qualified students	December 8, 2021	40
17.	Essay Writing Competition on theme “Good Governance”	December 31, 2021	38
18.	Programme on “Youth Day Celebration ”	January 12, 2022	40
19.	National Voter Day	January 25, 2022	38
20.	73 rd Republic Day Celebration	January 26, 2022	40
21.	Martyrs Day or <i>Shaheed Diwas</i>	January 30, 2022	40
22.	National Voter Awareness Quiz Contest	March 2, 2022	38
23.	Thalassemia Awareness cum Screening Test & Blood Donation Camp	March 3, 2022	38
24.	Voter Awareness Poster Design & Slogan writing Contest	March 14, 2022	40
25.	NSS Special camp	March 07-13, 2022	40

Educational/Infrastructural Facilities

The college of Agricultural Engineering and Technology, NAU, Dediapada is one of the preeminent colleges of Navsari Agricultural University in the state matching with recommendations of V Deans' committee standards. The College takes pride in being an administrative building which is powered by clean and green energy campus and it provides an eco-friendly environment to its all the staff and students having anti-ragging cell, training and placement cell, NSS program cell and Students representative council to run various activities through a year. CAET also upgraded its classrooms to facilitate teaching through modern tools and techniques such as the classrooms with Wi-Fi and LCD projectors, tutorial rooms, college central library, well equipped laboratories of all the departments, engineering workshop, computer lab with CAD/CAM facilities, reading hall, examination hall and a state-of-the-art seminar cum conference hall with seating capacity of over 80 persons. The College is endowed with renovated boys' and girls' hostels, gymnasium, parking facility and playground to run various indoor and outdoor games. The College has taken measures to address the need for vigilance and security with CCTV-enabled to cater to the safety requirements of a well endowed and the equipped campus.

Research publications

Sr. No.	Details of Publication	NAAS rating
4.	Jayswal, P.S., Gontia, N.K., Sondarva, K.N. (2021), Morphometric study of Dhatarwadi River Basin using RS and GIS techniques. <i>Current Journal of Applied Science and Technology</i> , 40 (10): 1-11.	4.71
1.	Sanchavat, H., Lakkad A.P., Patel, B.S., Jena, S., Chavda, T.V. and Singh, A. (2021). Development and evaluation of Ergonomically suitable manual fodder harvesting scythe for women. <i>Indian Journal of Hill Farming</i> , 34 :255-259.	5.04
2.	Sengar, S.H., T.V. Chavda, Alo k Singh and R.G. Burbade (2022). Solar drying of <i>Butea monosperma</i> (keshuda) flowers for herbal colour. <i>Indian Journal of Agroforestry</i> , 24 (1):72-77.	5.19
3.	Singh, S.N., S.K. Vekariya, P.S. Pandit, F.M. Sahu, R.G. Burbade (2022). Design of rotary disc type garlic clove peeling machine. <i>Agric. Eng. Int.</i> , 24 (1): 228-238.	IF 0.632

Books/Book Chapters

1.	Alok Singh and T.V. Chavda (2021) . Decentralized solar photovoltaic system design for future energy needs (Chapter-64). <i>In: Agriculture Innovation: A way forward for nation development</i> (Eds. Kalbande, S.R. and V.M. Bhale), Published by Himanshu Publications, Udaipur, Pp. 328-333. [ISBN-978-81-7906-934-9].
2.	Chavda, T.V., Alok Singh, Sandip H. Sengar and Hitesh Sanchavat (2021). Hydropower (Chapter – 11). <i>In: Advances in Renewable Energy Engineering</i> (Eds. M.S. Seveda, P.D. Narale and S.N. Kharpude), Published by Narendra Publishing House, Delhi, Pp. 227-258. [ISBN-978-93-91063-93-1].
3.	Lakkad, A.P., Shrivastava, P.K. and Sondarva, K.N. (2022). Application of RUSLE and MUSLE Models to assess erosion sensitivity of a sub-watershed using ArcSWAT interface. In soil health and environmental sustainability. Springer, Pp. 193-238.
4.	Monpara Milan and S.N. Singh (2021). Effect of blanching treatment on tray load on drying characteristics of Fenugreek (<i>Trigonella foenum Graecum</i> L.). <i>In: Agriculture Innovation: A way forward for nation development</i> (Eds. Kalbande, S.R. and V.M. Bhale), Published by Himanshu Publications, Udaipur, Pp. 318-326. [ISBN-978-81-7906-934-9].
5.	Sanchavat, H., Vinit Modi, Tilak V. Chavda, Alok Singh and Sandip H. Sengar (2021) . Present status and advancements in biomass gasification (Chapter – 5). <i>In: Advances in Bioenergy Engineering</i> (Eds. M.S. Seveda, P.D. Narale and S.N. Kharpude), Published by Narendra Publishing House, Delhi, Pp. 77 – 111. [ISBN-978-81-94726-97-5].
6.	Sanchavat, H.B. and Chavda, T.V. (2021) . Performance evaluation of women friendly ergonomically suitable harvesting tool (Chapter-45). <i>In: Agriculture Innovation: A way forward for nation development</i> (Eds. Kalbande, S.R. and V.M. Bhale), Published by Himanshu Publications, Udaipur, Pp.208-211. [ISBN-978-81-7906-934-9].
7.	Singh, A., Tilak V. Chavda, Sandip H. Sengar and Hitesh Sanchavat (2021.) Design of Solar Photovoltaic System for Rooftop (Chapter-4). <i>In: Advances in Renewable Energy Engineering</i> (Eds. M.S. Seveda, P.D. Narale and S.N. Kharpude), Published by Narendra Publishing House, Delhi, Pp. 67-92. [ISBN-978-93-91063-93-1].

PART-II

1. Mega events organized by respective Colleges: NIL

**Seminar/Symposium/conference/winter school/10 days training/Farmer's training/
Celebration of state/national/international days at University level:**



College of Agricultural Engineering and Technology, Dediapada organized Inter-collegiate Literary Competition-2022 including Debate, Elocution and Extempore competition at university level in the campus on March 14, 2022.



Er. Dharmil Bhaveshkumar Doshi, a student of CAET, Dediapada received the Vice-Chancellor's Gold Medal award for his Academic and extracurricular performance for the degree of B. Tech (Agricultural Engineering) in the 16th Annual Convocation held at NAU, Navsari on February 8, 2022.

13 | UNIVERSITY LIBRARY AND KNOWLEDGE CENTRE, NAVSARI

Library is the heart of the institution and it is the knowledge paradise for the students, teachers, researchers and other users to acquire right knowledge at right time to the right user. This library was college library of N.M. College of Agriculture during the year 1965, It was renamed as Campus library by Gujarat Agricultural University in the year 1972. Again it renamed as Campus Central Library in the year 1988 with inclusion of new faculty of Horticulture and Forestry. When the Navsari Agricultural



University came into existence on May 1, 2004, it was converted into University Central Library. At present it is working as the University Library and Knowledge Centre. Library is located in the centre of Navsari Campus at approachable walking distance from various colleges and hostels. Library is having good infrastructure facilities spread over an area of 5600 Square meter (60256 Sq feet').

The main mandatory function of the library is to provide all kinds of scientific and technical database information especially in the fields of Agriculture, Horticulture, Forestry, Veterinary, Biotechnology, Agribusiness Management, Agri-Engineering, Fisheries, Information Communication Technology as well as other Basic and allied Sciences to the students, scientists, teachers, researchers, extension workers and all type of readers.

Library Timing

The University library timing is scheduled as following to meet the objective of the library such as satisfies thirst for knowledge and developing reading habit of library users as well as availing reading resources for maximum hours to the library users.

1. Monday to Saturday: 07:30 hrs to 22:00 hrs.

University Library Staff position

Sr. No.	Designation	No.
1	University Librarian	01
2	Assistant Librarian	01
2	Library Assistant	01
3	Junior Clerk	01
4	Lab Attendant	01
5	Library Attendant	02
Total		07

Collections (as on 31/03/2022)

Books	:	85098
Gratis Books	:	2112
E-Books	:	946
Bound volumes of periodicals	:	11327
M.Sc. Theses	:	2937
Ph.D. Theses	:	602
Reports	:	6712
Total Collection	:	109734

Journal / Periodicals Subscription (as on 31/03/2022)

Indian	:	28
Through CeRA	:	2923
Gratis	:	65

E-Resources

1. CDs / DVDs	:	672
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Online Database

A. Indian Nipaers Database

Library Membership

Type of Members	No. of Members
Faculty	712
Diploma Students	60
UG Students	725
PG students	580
Ph.D Students	142
Total	2219

Book Purchased (During 2021-22 financial year)

Particulars	Numbers
Books	1127
Subscribed Journals (Indian)	28

Library User Statistics (During 2021-22 financial year)

Library Users	Numbers
Students	37282
Faculty	649
Issue-Return of Books	10211
Reprography Services	729
CeRA and KrishiKosh users	12486

Services Provided at University Library

A.	Circulation Services	M.	Internet lab facilities
B.	(CAS) Current awareness services	N.	Separate Reading Room for boys and girls
C.	(SDI) Selective Dissemination Information Services	O.	Reading Room facility / Night Reading Room facility
D.	Classification Services	P.	Book Display Services
E.	Cataloguing Services /OPAC (Online Public Access Catalogue)	Q.	Discuss Room Services
F.	Document Delivery Services	R.	CCTV Camera facilities
G.	Indexing Services	S.	CeRA (Consortium for e-Resources in Agriculture) through ICAR
H.	Reference Services	T.	KrishiKosh through NAIP Project (ICAR)
I.	Reprography Services	U.	e-library
J.	Online Database : Nipaers Database Services.	V.	Property Counter services
K.	Inter Library loan services	W.	Wi-Fi facilities
L.	Referral Services	X.	Internet Base Services

Library Committee:

Library Committee of the University constituted under Section-20 (4) of the Common Statutes for Agricultural Universities of Gujarat, 2011. Followings are the member of Library Committee.

Members of Library Committee:-

Sr. No.	Name	Office Name & Address	Designation
1.	Dr. Z. P. Patel	Vice- Chancellor, Navsari Agricultural University, Navsari	Chairman
2.	Dr. S. R. Chaudhary / Dr. T. R. Ahlawat	Directorate of Research, Navsari Agricultural University, Navsari	Member
3.	Dr. C. K. Timbadia	Directorate of Extension Education, Navsari Agricultural University, Navsari	Member
4.	Dr. P. K. Shrivastav	Principal & Dean, ASPEE College of Horticulture & Forestry, Navsari Agricultural University, Navsari	Member
5.	Dr. R. D. Pandya	Principal & Dean, N. M. College of Agriculture, Navsari Agricultural University, Navsari	Member
6.	Dr. Ruchira Shukla	Principal & Dean, ASPEE Agribusiness Management Institute, Navsari Agricultural University, Navsari	Member
7.	Dr. R. M. Patel	Principal & Dean, ASPEE Shakilam Bio-Technology Institute, Navsari Agricultural University, Navsari	Member
8.	Dr. S. H. Sengar	Principal, College of Agricultural Engineering, Dediapada, Narmada	Member
9.	Dr. R. M. Naik	Director of Student Welfare, Navsari Agricultural University, Navsari	Member

10.	Dr. H. V. Pandya	Registrar, Navsari Agricultural University, Navsari	Member
11.	Mr. Chirag B. Naik	Comptroller, Navsari Agricultural University, Navsari	Member
12.	Dr. V. P. Usadadia	Professor, N. M. College of Agriculture, Navsari Agricultural University, Navsari	Member
13.	Dr. Mehul G.Thakkar	Associate Professor, ASPEE Agribusiness Management Institute, Navsari Agricultural University, Navsari	Member
14.	Kum. Khushbu Bhati	Student Representative, N. M. College of Agriculture, Navsari Agricultural University, Navsari	Member (Student's Representative)
15.	Kum. Arpita M. Patel	Student Representative, ASPEE College of Horticulture & Forestry, Navsari Agricultural University, Navsari	Member (Student's Representative)
16.	Kum. Shivani P. Dudhatra	Student Representative, ASPEE Agribusiness Management Institute, Navsari Agricultural University, Navsari	Member (Student's Representative)
17.	Dr. Alka Singh	Professor, ASPEE College of Horticulture & Forestry, Navsari Agricultural University, Navsari	Member
18.	Dr. K. D. Tandel	Assistant Librarian, University Library, Navsari Agricultural University, Navsari	Invited Member
19.	Dr. K. G. Patel Dr. Divyesh D. Patel	Principal Agricultural College, Navsari Agricultural University, Bharuch	Invited Member
20.	Dr. J. J. Pastagiya	Principal, Agricultural College, Navsari Agricultural University, Waghai	Invited Member
21.	Dr. K. G. Patel	I/C University Librarian, University Library, Navsari Agricultural University, Navsari	Member Secretary

1. During the period under report 20th meeting of Library Committee was held on October 26, 2021

- Resolved to purchase necessary books for University Library and Departmental Library of various college of NAU, Navsari.
- Resolved to subscription journals, periodicals, bulletin, magazines and news papers of vernacular language as well as in English for University Library and Departmental Library of various college of NAU, Navsari.

2. Consortium for E-Resources in Agriculture and *Krishiprabha* Indian Agriculture Doctoral Dissertation Repositories:

- University Library, NAU, Navsari is linked with consortium for e-Resources in Agriculture for online journals (CeRA) and *Krishikosh* Indian Agriculture Doctoral dissertation (Theses) repositories for encouragement of better reading environment. Efforts have been made to provide online journal services and online thesis database for scientist and student community of NAU, Navsari. Use of the CeRA in the NAU Library in the academic year 2021-22, Total number is 12486 hits by university library users, Total 183 requests are received from other agricultural university libraries users for available full text research articles in the NAU library and 39 full text request articles were provided by the document delivery services. Similarly 342 users have collected full length thesis information of his interest from University Library, NAU, Navsari through *Krishikosh* database.

3. Significant Achievements:

1. Improvement of Infrastructure like implementation of digital and ICT technology, CCTV, fire proof server room, up-gradation of server, desktops etc.
2. E-Theses submitted by students of NAU under Ph.D. and Master Degree programme are managed through digital repository. Library has also provided all India Agricultural University Ph.D. theses through *Krishikosh*
3. University library Provide with full-fledged AC reading room facilities of the library users
4. Total 12486 Library users are used the CeRA and *Krishikosh*.
5. Bibliographic records of library have been updated with KOHA Library Management Software.
6. Library has been providing Wi-Fi Internet facility for the users.
7. Library provided the separate reading section for library users of late night usage purpose and also extended library timing (*i.e.* 10-00 P.M.)for maximum use of late night library
8. Library membership has been automated and circulation of books and other publications were also done through KOHA Library Management Software
9. Succeed in increasing the membership of library users and made them for maximum use of the library.
10. Succeed in collection development by arranging book exhibition in University Library.
11. e-Library has been made more dynamic.
12. Bibliographic records of library have been updated with KOHA Library Management Software.



Stack Room



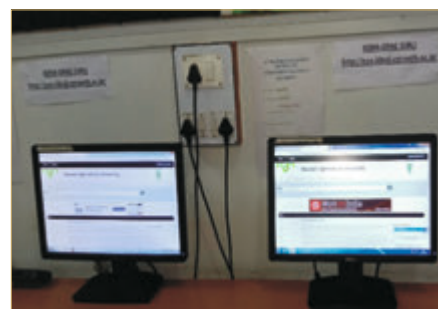
Books Exhibition 2021-22



Reading room



e-Library



e-Library

14 | Directorate of Research Navsari

The Navsari Agricultural University, Navsari has a strong research base to cater the needs of the farmers of South Gujarat. The primary goal of research in the university is to generate technologies for augmenting agricultural productivity and farm returns synchronizing with the state's objectives, socio-economic and cultural needs of the farming community on a sustainable basis. The University mainly undertakes research on the crops grown in South Gujarat viz., cotton, paddy, sugarcane, pulses sorghum, hill millets, niger, soybean, castor, wheat, groundnut and horticultural crops like, mango, banana, sapota, papaya, cashew nut, mushroom, vegetable and floriculture crops. Apart from this, University also undertakes research on soil and water management, organic farming, bio-fertilizers and bio-pesticides, post-harvest technology, value addition, agro-forestry, fisheries, animal husbandry, protected cultivation, climate change and agriculture, soil health, forage crops, food quality and food testing, residual analysis, nutritional security, bee-keeping, sericulture etc.

South Gujarat is considered as the horticultural bowl of the state. This region is blessed with eleven rivers including the Narmada river which traverses through the South Gujarat. Cultivated area of South Gujarat is 13,32,900 ha with 5,99,400 ha irrigated area (44.96%). NAU jurisdiction area includes around 300 km of coastal line.

District-Wise Major Cultivated Crops

Various grains, pulses, oilseeds, fruits and vegetables are grown in different districts of South Gujarat. Important crops like cotton is cultivated in Bharuch and Narmada districts, amongst grains, paddy is largely grown in Navsari, Surat, Bharuch, Valsad, Tapi and Dang districts. Sugarcane is grown in entire South Gujarat area except Dang district and grain of poor people sorghum is grown in five out of seven districts. Pulses are cultivated mainly in Narmada, Tapi and Valsad districts and finger millets, vari and niger are largely grown in tribal dominated Valsad and Dang districts of South Gujarat. Main fruit crops of this region are mango, banana and sapota but other fruits like papaya, cashew, ber, guava and custard-apples are also grown. Major vegetable crops of South Gujarat are brinjal, okra, chilli, tomato, cucurbits, Indian bean and tuber crops.

Historical Background

The NAU, Navsari has its presence at 15 different locations in South Gujarat, possesses 897.26 ha land including 710.99 ha cultivable land. The foundation of agricultural research has been laid down way back during the year 1896 by establishing Main Cotton Research Station at Surat, Regional Cotton Research Station (1913) at Bharuch, Regional Rice Station (1934) at Vyara and Fruit Research Station (1935) at Gandevi by British Government before independence of India. Further, after independence, Hill Millet Research Station (1954) at Waghai, Agricultural Research Station (1959) at Tanchha, Main Sorghum Research Station (1962) at Surat, Cotton Wilt Breeding Station (1964) at Hansot, Cotton Sub-Research Station (1964) at Achhalia, Horticulture Farm (1965) at Navsari, Soil & Water Management Research Unit (1965) at Navsari, Soil Salinity Research Station (1966) at Danti, Ubharat, and Sugarcane Research Station (1968) at Navsari were established by Department of Agriculture, Government of Gujarat. These nine research stations were then transferred to newly established Gujarat Agricultural University (GAU) during the year 1972 and research activities were also started at Navsari center. Later on, Agricultural Experimental Station (1972) at Paria, Livestock Research Station (1978) at Navsari, Wheat Research Station (1980) at Bardoli, Niger Research Station (1990) at Vanarasiwere established by GAU and all research centers were transferred to NAU, Navsari during the year 2004. Then, NAU has established research stations viz., Floriculture Farm (2004) at Navsari, Agricultural Research Station (2008) at Mangrol and Agricultural Research Station (2009) at Dediapada.

Research Stations of the University

SN	Location	Year of Establish.	Area (ha)	Cultivated area(ha)	Details of Farms
1	Navsari	1964	400.62	288.15	Main Rice Research Station Main Sugarcane Research Station Soil & Water Management Research Unit Livestock Research Station, Regional Horticultural Research Station Pulse Research Station Floriculture Farm Vegetable Farm Organic Farm
2	Bharuch	1913	39.19	31.00	Regional Cotton Research Station Pulse Research Station
3	Surat	1896	87.58	81.21	Main Cotton Research Station Main Sorghum Research Station
4	Paria	1972	142.73	127.73	Agriculture Experiment Station (Horticulture)
5	Vyara	1934	40.33	29.87	Regional Rice Research Station
6	Waghai	1954	28.59	19.81	Hill Millet Research Station
7	Gandevi	1935	12.23	10.18	Fruit Research Station
8	Bardoli	1980	8.90	7.94	Wheat Research Station
9	Achhalia	1964	45.89	40.81	Regional Cotton Research Station
10	Tanchha	1959	19.42	14.89	Agriculture Research Station
11	Hansot	1964	16.30	14.10	Cotton Wilt Breeding Station
12	Danti-Umbharat	1966	14.47	12.00	Coastal Soil Salinity Research Station
13	Vanarasi	1989-90	9.11	8.70	Niger Research Station
14	Mangrol	2008-09	10.10	8.80	Agriculture Research Station
15	Dediyapada	2009-10	21.80	15.80	Agriculture Research Station
		Total	897.26	710.99	

NAU, Navsari receives funds from Government of Gujarat, ICAR, New Delhi, Government of India and other private organizations for undertaking research for fulfilling the needs of farmers of South Gujarat. During the year 2021-22, a total of 274 schemes were operational, which includes 192 schemes funded by Government of Gujarat, 32 schemes funded by ICAR and GoI and 50 schemes financed by private companies and other agencies.

The University has successfully developed synthetic leather, cellulose powder, high quality paper and fibres from waste banana pseudostem. The University got success in developing edibles like candy, pickle, chips and RTS from central core of Banana Pseudostem. The University has patented two technologies viz., "Preparation of candy from central core of banana pseudostem" and "Preparation of Novel Organic fertilizer from banana pseudostem".

Department of Plant Pathology produced more than 23,323 litres of bio-fertilizer of various strains like PSB, Rhizobium, *Azotobactor*, *Acetobactor* and *Azospirillum* in liquid form and distributed/sold to farmers of South Gujarat. Navsari has developed NAUROJI- Stonehouse trap: a saga of triumph over fruit flies and produced at large scale for the benefit of farmers growing fruits and vegetables in South Gujarat.

NAU, Navsari has very well developed research facilities like Bio-fertilizer and Bio-pesticide Unit, Banana Pseudostem Value Addition Unit, Soil and Water Management Unit, Food Quality Testing Laboratory, Central Instrumentation Laboratory, Post Harvest Technology Laboratory, Tissue Culture Laboratory, Organic Farm, Horticultural Farm, Protected Cultivation of Vegetables and Flowers, Nurseries for horticultural and medicinal plants, Biotechnology Laboratory and latest Diagnostic and treatment facilities for animals and diagnosis of diseases of aquaculture. These facilities provide an opportunity to undertake quality research in agricultural and allied sciences. Moreover, NAU, Navsari also imparts farm skill development trainings to farm women for inculcating entrepreneurship and thereby to strengthen women empowerment.

About the technologies

After attaining the status of an independent University in the year 2004, NAU has developed a total of 736 technologies for the benefit of farming community. Technologies have been developed in the field of crop improvement (99), natural resource management (266), horticulture and agro-forestry (184), forestry (18), plant protection (94), agriculture engineering (50), animal health (36), basic sciences (8) and social sciences (1). Over the last 19 years, NAU has developed Good Agricultural Practices and technologies related to INM, IPM, IDM, IWM, Organic farming practices and IFS of various crops under cultivation in South Gujarat for benefitting farmers.

During the year 2021-22, NAU has released 06 new varieties of 05 crops including 2 varieties of rice (GR-23 and GR-24) and 1 each from Cowpea (Cowpea 9), Sunhemp (GSUN 1), Finger millet (CFMV3) and Sorghum (GNJ-1).

The scientists of NAU have been working for evolving and optimizing technologies in relation to MIS with and without mulching, nutrient management based on soil health cards, schedule of nutrient supplement to enhance productivity of various crops grown in South Gujarat. Thus, NAU has recommended as many as 282 package of practices for Integrated Nutrient Management, soil and water. Some of the important technologies like land configuration, drip irrigation and nutrient management for fruit crops, grain crops and vegetables; drip irrigation, mulching and fertigation technology for banana and other crops, drainage technologies for prevention of soil erosion and water logging have been recommended by NAU. Other technologies for the benefit of farmers have been developed viz., Integrated nutrient management in brinjal and rabi vegetable, irrigation management in sweet corn and sunnhemp. Suitability of various turmeric varieties under organic farming.

Apart from these, scientists of NAU also developed several technologies for minimizing losses caused by various diseases and pest in various crops. Based on feedback of farmers, specific IPM technologies have been developed and propagated for control of various crop diseases as well pest incidence to enhance productivity. NAU has recommended 97 technologies of IPM since 2004. Some important technologies like Methyl Uginol and sex pheromone traps for control of fruit flies in mango, sapota and vegetable crops; black *Tulsi* extract baited trap for chicku bud borer; effective control of white fly in okra, brinjal and cotton; sucking pest and bollworm in cotton, leaf blight and stem borer in paddy, stem borer, other borers, red rot and wilt in sugarcane; culture of mulberry worm in castor crop have been developed for the benefit of farmers of South Gujarat.

Besides, 201 technologies for improvement in the field of vegetables, fruits, flowers, medicinal and aromatic plants, and forest and plantation trees have also been developed for the benefit of farmers of South Gujarat. Technologies worth mentioning are high density planting in mango, precision farming of banana, papaya and brinjal; organic farming of fruits, vegetables and tuber crops; paired row planting in banana, nutrient management of banana, papaya and other vegetables; early flowering of mango, canopy management in mango, de-sucking of banana, post shooting management of banana, pitcher method of irrigation in mango and rejuvenation of mango. NAU also developed technologies of bee keeping for additional income of farmers. Further, technologies of value addition for enhancing the income of farmers like value addition of banana pseudostem, preservation of fresh mango pulp, value addition of fruits like banana, sapota, guava and flower crops and enhancement of shelf life of banana and mango have been developed.

Moreover, this university also produces quality seeds for farmers of South Gujarat. During last sixteen years, the University has produced 66617.8 quintals of quality seeds including nucleus, breeder, foundation, certified and truthfully labelled seeds and 69090.5 quintals of sugarcane *setts*. University also produced 10.37 lakh of saplings and 25.43 lakh of tissue culture plants of banana and sugarcane during last sixteen years under Mega Seed Project.

Research Council is the apex body of the University for taking policy decision related to research. It has discipline wise 9 research sub committees, wherein, results of research schemes/experiments of previous year are discussed, new programmes as well as recommendations for farmers and scientific communities are being finalized. The same has been finally approved in Joint AGRESCO of SAUs of Gujarat.

Planning and Monitoring of Research

NAU has a mission to develop and disseminate modern agricultural technologies which are location specific, cost effective and suitable for wide acceptance by the farming community. To achieve holistic goal in proper manner, the Agricultural Research Council acts as apex body for planning and implementing long, medium and short term schedules and guidelines. The Director of Research and Dean P.G. Studies under the guidance of Vice-Chancellor co-ordinates, monitors, evaluates and lays future plans in consultation with experts and scientists of the University for research to be implemented at main stations and sub centres.

Research Sub-Committees

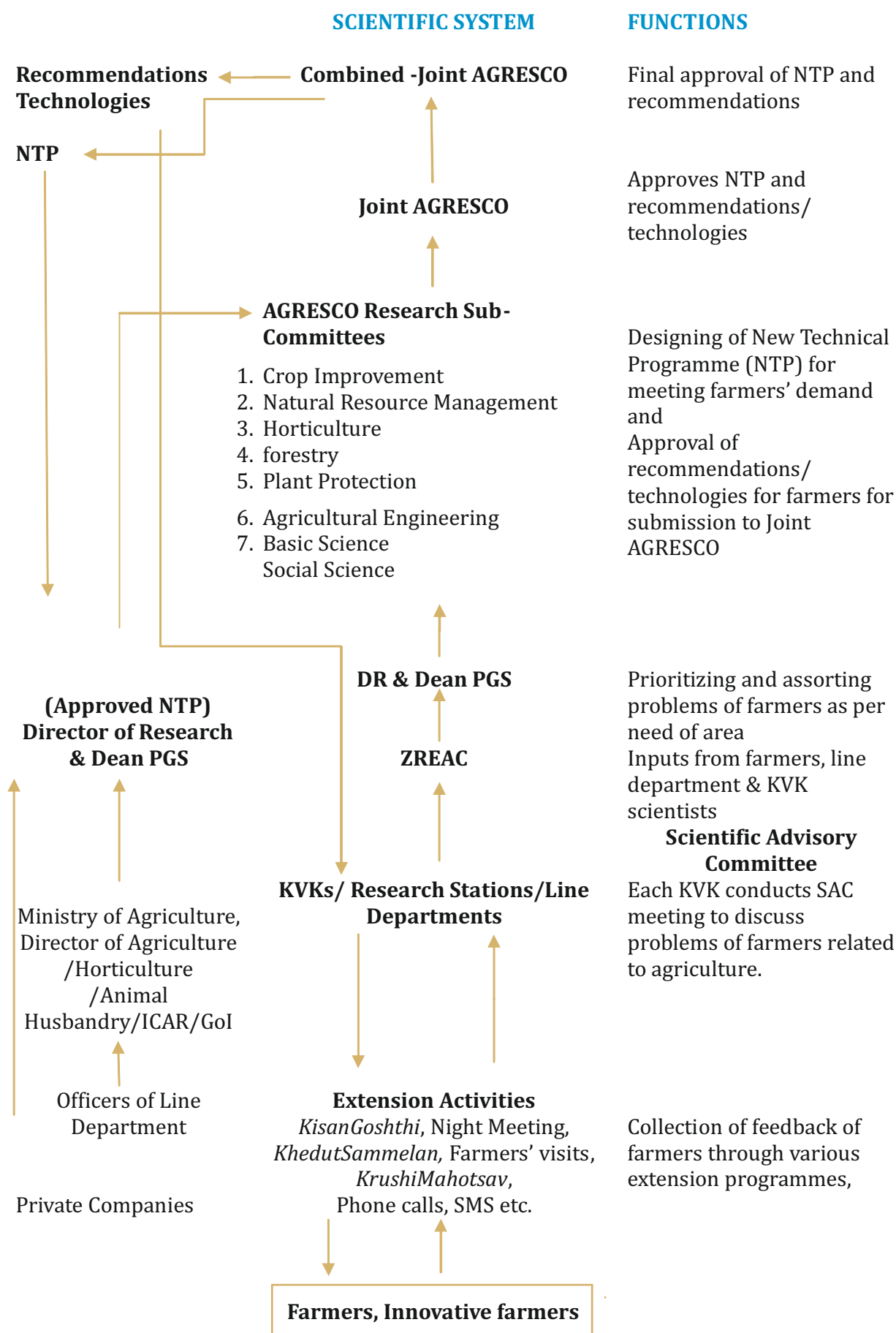
NAU gives priority to undertake the research based on challenges faced by the farmers of South Gujarat. The feedback of farmers is received through KVKs and Line departments during the biannual meeting of Zonal Research and Extension Action Committee. Thereafter, new technical programmes are framed and proposed to respective Research Sub-committees for further discussion, deliberations and approval as a New Technical programme.

The detailed discussion and deliberations are held in various sub-committee meetings regarding new research proposals, research results and recommendations. Post Graduate research works which are valuable and high standard are also discussed to take this for further research by the respective department. The proposed research work is implemented only after approval of respective research sub-committee. There are nine different sub committees to look after research proposal, progress of research work and submission of final reports to various funding agencies. The meeting of sub-committee is conducted under the chairmanship of Director of Research and under the supervision of Vice Chancellor of the University.

Research recommendations for farming community 2021-22

SN	Name of the Sub-Committees	No. of Recommendations		NTP
		Farmers	Scientific community	
1	Crop Improvement	06	00	00
2	Natural Resource Management	16	02	22
3	Plant Protection	04	08	09
4	Horticulture	13	01	28
5	Forestry	04	03	21
6	Agril. Engineering	02	00	07
7	Basic Science	00	05	08
8	Social Science	00	05	20
9	Animal Science	05	10	00
	Total	50	34	115

Flowchart of Prioritizing/Decision making in Research at NAU, Navsari



Recommendations for Farmers (2021-22)

1. Crop Improvement

1.1 COWPEA VARIETY: Gujarat Vegetable Cowpea 9 (Shakambhari)

The farmers of Gujarat cultivating *kharif* and summer vegetable cowpea are recommended to grow Gujarat vegetable Cowpea 9 (Shakambhari) variety. The average green pod yield of this variety in *kharif* season was 6020 kg/ha with overall yield advantage of 31.4, 10.2 and 11.7 % over the checks Pusa Phalguni, GDVC-2 and AVCP-1, respectively. In summer, this variety recorded 5431 kg/ha green pod yield with overall yield advantage of 49.3, 22.5 and 37.8 % over the checks Pusa Phalguni, GDVC-2 and AVCP-1, respectively. It matures within 80-90 days (seed to seed). This variety possesses high protein content in greenpods (25.4 %) as compared to checks. The green pods are thin with medium size and white seeds. Days for first green pod picking is 55-60 days and it is highly resistant to YMV disease.



1.2 RICE VARIETY: GR 23 (Navsari Paushtik)

The farmers of Gujarat state are recommended to grow biofortified rice variety GR 23 (Navsari Paushtik) in transplanted condition during *kharif* season. The proposed variety recorded average grain yield of 5631 kg/ha in Gujarat, which was 25.3, 37.6, 10.9 and 12.9 % higher over the check varieties GNR-2, GR-11, GAR-13 and GNR-7, respectively. It has medium slender grain, long panicle, more productive tillers and more number of grains per panicle. It has high protein content (12.18 %), intermediate amount of zinc content (20.40 ppm) and amylose content (24.80 %) with high head rice recovery (60.80%). The variety is moderately resistant against bacterial leaf blight, grain discoloration and leaf blast diseases whereas tolerant reaction against brown plant hopper and leaf folder pests.



1.3 RICE VARIETY: GR 24 (Navsari Parimal)

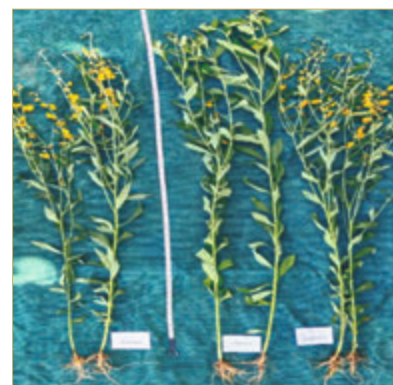
The farmers of Gujarat state are recommended to grow early maturing, non-lodging rice variety GR 24 (Navsari Parimal) in transplanted condition during *kharif* season. The proposed variety recorded average grain yield of 5038 kg/ha in Gujarat, which was 21.8 and 9.0% higher over the check varieties GR 7 and GAR 3, respectively. Long



slender grain rice variety, GR 24 contains intermediate amylose (24.8%) and high head rice recovery (58.2%). The proposed variety showed moderately resistance against leaf blast disease, brown plant hopper and white backed plant hopper pests.

1.4 SUNNHEMP VARIETY: GNSUN 1 (Vijay)

The farmers of Gujarat are recommended to grow sunnhemp variety GNSUN 1 (Vijay) for green manuring. It has recorded 30.75 t/ha average green biomass yield in Gujarat. It exhibited overall 38.20 and 44.37 % green biomass yield superiority over check varieties K-12 (B) and Swastik, respectively. It possesses higher initial vegetative growth, fresh weight of plant, plant height, primary branches per plant, leaf length, leaf width, leaves per plant along with medium late in days to 50% flowering, which are highly beneficial for green manuring. It also possesses longer root length coupled with higher number of root nodules per plant as well as fresh weight of root nodules, which helps to fix higher amount of atmospheric nitrogen into soil. It adds higher organic C, available N, available P₂O₅ and available K₂O into soil after green biomass soil incorporation. The lower C : N ratio of the variety favours faster decomposition of green biomass into soil. The proposed variety is moderately resistant to damping off.



1.5 FINGER MILLET VARIETY: CFMV 3 (Ekvijay)

Finger millet variety CFMV 3 (Ekvijay) is recommended for endorsement in finger millet growing regions of Gujarat. This finger millet variety produced average grain yield of 3429 kg/ha which was 12.45 % higher over local check GNN-6 and 30.88 % higher over national check VL-352. The variety has attractive reddish brown colour with bold grain, uniform maturity and having non-lodging plant type. It is moderately resistant to foot rot as well as leaf, neck and finger blast diseases. It is also tolerant to stem borer and aphids under field condition.



1.6 SORGHUM VARIETY: GNJ 1

Farmers of Gujarat state are recommended for endorsement of sorghum variety GNJ 1 in irrigated condition during *Rabi* season. The variety GNJ-1 produced average 2920 kg/ha grain yield and 7355kg/ha dry fodder yield with grain yield increment of 33.7, 20.8, 14.7, 31.8 and 21.6% over check varieties Nizer Goti, BP-53, Phule Revati, CSV 216R and CSV 29R,



respectively. It contains starch 63.7%, protein 10.1% in grain and Crude Protein 4.76%, Neutral Detergent Fiber 56.37% in dry fodder. The proposed variety showed moderately resistant reaction to grain mold, anthracnose, leaf blight and sugary disease. This variety showed low infestations of stem borer

2. Natural Resource Management

2.1 Fertigation study in cauliflower grown on claysoils of South Gujarat

The farmers of South Gujarat zone growing cauliflower under drip irrigation system are recommended to apply 5 t/ha biocompost and recommended dose of fertilizer (100-50-50 kg N-P₂O₅-K₂O/ha). Apply 100 % N in the form of urea (217 kg/ha) and K in the form of muriate of potash (83 kg/ha) through fertigation and 100 % P in the form of single super phosphate (320 kg/ha) as basal for getting higher yield and net income.

Or

Fertigate N, P and K through 100 % water soluble fertilizers, 17:44:00 urea phosphate (114 kg/ha) for N and P and remaining N through urea (175 kg/ha) and K in the form of muriate of potash (83 kg/ha).

Fertigation schedule:

Growth period (Week)	No. of splits	% of total
		N & K / P
2 to 3	2	10 / 40
4 to 7	3	50 / 30
8 to 12	3	40 / 30

System details:

Lateral spacing: 1.20 m

Dripper spacing: 0.60 m

Dripper discharge: 4 lph

Operating pressure: 1.20 kg/cm²

Operating time (alternate day):

October: 70 -75 min., November: 80-85 min., December: 90-100 min.

2.2 Effect of different methods of irrigation and tillage practices on sweet corn after *kharif* rice

The farmers of South Gujarat growing sweetcorn during *rabi* season are recommended to adopt No (Zero) tillage practice with drip irrigation for getting higher yield and net profit along with improvement in soil physical properties. Further, No (Zero) tillage practices also be followed in *kharif* rice.

System details:

Lateral spacing: 1.20 m

Dripper spacing: 0.60 m

Dripper discharge: 4 lph

Operating pressure: 1.20 kg/cm²

Operating time (alternate day): Dec.: 85 - 90 min., Jan.: 80-85 min.

Feb.: 90-100 min., March: 100-115 min.

2.3 Response of brinjal to integrated nutrient management under coastal salt affected soils of South Gujarat

The farmers of coastal areas of South Gujarat are recommended to transplant brinjal following ridge and furrow method (90 cm x 60 cm) with application of biocompost @ 10 t/ha + 125-50-37.5 kg NPK/ha (50 % N and 100 % P & K as basal and 50 % N at 30 DATP) along with application of biofertilizers *Azospirillum*+ *PSB*, 10⁸ CFU/ml, each 1.25 L/ha in soil for achieving higher yield and net returns with improvement in availability of N and P₂O₅ of coastal salt affected soils.

2.4 Response of different fodder grasses to gypsum application under coastal saline-sodic soil

The farmers of coastal areas of South Gujarat are recommended to grow Hy.Napier grass or guinea grass and apply gypsum @ 75% of GR before sowing for getting higher green fodder yield, net returns and decrease soil sodicity.

2.5 Effect of integrated nutrient management on *rabi* vegetable crops in rice-based crop sequence in clay soils of South Gujarat

The farmers of South Gujarat following *rabi* vegetable crops after *kharif* rice are recommended to adopt rice–radish cropping sequence. Apply bio compost @ 10 t/ha to radish crop as basal and foliar spray of enriched novel organic liquid nutrients 1% at 20 and 40 DAS for achieving higher yield and net realization.

2.6 Effect of zinc on hybrid rice under South Gujarat

The farmers of South Gujarat transplanting hybrid rice in *kharif* season are recommended to spray 0.05% Zn EDTA at tillering and panicle initiation stages for getting higher yield, net return and Zinc content.

2.7 Effect of different sulphur levels on yield of *bt* cotton

Farmers of South Gujarat growing *Bt* Cotton hybrid are recommended to apply sulphur 60 kg/ha through 250 kg phospho-gypsum/ha along with recommended dose of P₂O₅ (40 kg/ha) in form of single super phosphate (250 kg/ha) as basal dose and bio compost 5 t/ha at the time of land preparation and 240 kg nitrogen/ha in five equal splits (each of 48 kg N/ha) at 30, 60, 75, 90 and 105 days after sowing for achieving higher seed cotton yield and net income.

2.8 Studies on sowing dates and spacing on vegetable pigeonpea grown during pre-monsoon

The farmers of South Gujarat growing vegetable pigeonpea during *kharif* season are recommended that pre-monsoon to onset of monsoon sowing (30 April to 17 June) of pigeonpea gives comparable yield. Further, they are recommended to sow the crop at 180 cm x 45 cm for achieving higher net return and easy cultural operations.

2.9 Studies on intercropping of grain legumes in sorghum

The farmers of South Gujarat growing sorghum during *kharif* season are recommended to sow the sorghum + blackgram in 2:1 proportion at 30 cm apart with plant to plant spacing of 15 cm for sorghum and 10 cm for blackgram to achieve higher yield and net return on system basis as well as efficient use of land.

2.10 Effect of seed priming and irrigation on seed production of *rabi* sunnhemp under *kyari* land of South Gujarat

The sunnhemp seed producing farmers of South Gujarat are recommended to prime the seeds with *Rhizobium* or PSB or *Rhizobium* + PSB (1 x 10⁸ cfu/ml) each of 10 ml/kg seed in 2 L water for 2 hrs and irrigate the crop immediately after sowing and second irrigation at 30 DAS in *rabi* season for obtaining higher yield and net return.

2.11 Weed management with pre and post emergence herbicides in linseed

The farmers of South Gujarat growing linseed are recommended to carry out interculturing followed by hand weeding at 20 and 40 days after sowing for effective weed management and obtaining economical yield.

2.12 Identification of cropping systems module for different farming systems

The farmers of South Gujarat are recommended to adopt the following cropping systems for different purposes.

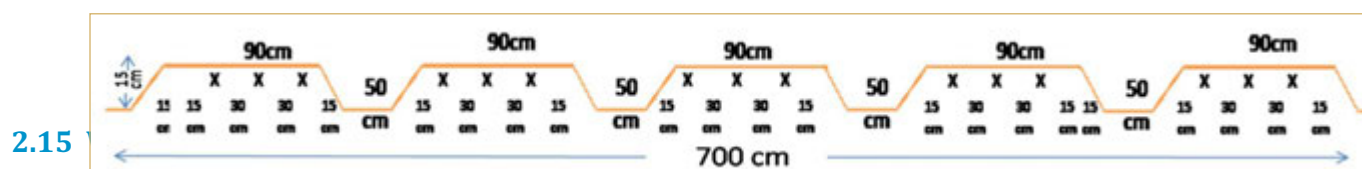
Cropping systems	Purposes
Rice-fenugreek (V)-cluster bean (V) crop sequence	Yield and income enhancement
Rice- greengram- pearl millet crop sequence	Improve soil health
Rice-indian bean (V)-sesamum crop sequence	Family nutrition
Rice-lucerne (continue) crop sequence	Livestock nutrition

2.13 Effect of spacing and organic manure on growth, yield and quality of organically grown banana cv. Grand Naine

The farmers of South Gujarat growing banana organically are recommended to apply 300 g N/plant through NADEP compost (26.5 kg/plant NADEP compost containing 1.13 % N) in three equal splits at the time of planting, 30 and 60 days after planting either keep the spacing of 2.1 mx1.5 m or 1.8 mx1.5 m for achieving higher yield and net profit. Further, apply bio-fertilizers (*Azotobacter*, PSB and KMB, each having 10^8 CFU/ml @ 5 L/ha.) at the time of planting. Also drench jivamrut at monthly interval starting from planting in five equal splits (200 ml/plant/split).

2.14 Suitability of various turmeric varieties under organic farming

The farmers of South Gujarat growing turmeric (variety: Salem or Sugandhum) organically are recommended to apply 100% RDN through NADEP compost (5.5 t/ha NADEP compost containing 1.08 %N) for achieving higher yield and net profit. They have to plant turmeric at 30 cm x 20 cm spacing on 90 cm raised bed having 15 cm height and keep spacing 50 cm between the beds. Further, apply bio-fertilizers (*Azotobacter* and PSB, each having 10^8 CFU/ml @ 5 L/ha.) and sow dhaincha at the time of planting and used as a mulch. Also drench of jivamrut @1500 L/ha in three equal splits at 45, 60 and 75 DAP.



farmers of South Gujarat growing cotton crop are advised to manage the weeds by adopting state seedbed techniques by removing first flush of weeds (either by application of glyphosate 41 % SL 1.0 kg a.i./ha (49 ml/10 L) or through shallow tillage after 15 days of light irrigation) during off-season then application of pendimethalin 30 EC % 0.9 kg a.i./ha (60 ml/10 L) PE fb quizalofop-ethyl 5 % EC 50 g a.i./ha (20 ml/10 L) and pyriithiobac sodium 10 % EC 75 g a.i./ha(15 ml/10 L) (tank mix) at 50 DAS during crop season for producing higher and profitable yield of cotton crop.

2.16 Response of cotton to tillage and different intercropping system under rainfed condition of South Gujarat

The farmers of South Gujarat are recommended to carryout sub-soiling (30 cm) or deep ploughing (22.5 cm) followed by cultivation with cultivator for obtaining higher and profitable yield of cotton. Besides, intercropping of blackgram or greengram was also found remunerative.

3. Plant Protection

3A Agricultural Entomology

3A.1 Effect of pollination by stingless bees on yield and quality of muskmelon fruits

The muskmelon growers of Gujarat are recommended to keep a stingless bee hive (2500-3000 stingless bees/hive/70 m²) in a polyhouse for pollination.

3A.2 Effect on augmentation of pollination by bees (*Apis cerana* F.) on yield of bitter gourd

The bitter gourd growing farmers of Gujarat are recommended to augment honey bee, *Apis cerana* @ 4 hives/ha in addition to natural pollination at 10% flowering for getting higher yield and profit.

3A.3 Efficacy of bio pesticides against Tea Mosquito Bug (TMB), *Helopeltis antonii* signoret in cashew

The cashew growing farmers in South Gujarat are recommended to apply *Beauveria bassiana* 1.15% WP (1×10^8 cfu/g) @ 0.007% (60 g/10 l water) at flushing, flowering and fruiting stages to manage tea mosquito bug and increasing nut yield.

As per CIBRC format

Year	Crop	Pest	Pesticides with formulation	Dosage/Ha				Total Quantity of Chemical suspension required/ha	Applica-tion schedule	Waiting period/ PHI (days)
				a.i./ ha	Quantity of formulation Kg or ml/ha	Con. (%)	Dilution in water (10 lit.)			
2021	Cashew	Tea mosquito bug	<i>Beauveria bassiana</i> 1.15 WP (1x 10 ⁸ cfu/g)	138	12 kg	0.007%	60 g	2000 litre	Spray at flushing, flowering and fruiting stages	NA

3B. Plant Pathology

3B.1 Management of mango malformation

The mango growers of Gujarat are recommended that after pruning of infected shoots spray of copper oxychloride 50% WP 0.15% @ 3 g/l water at the time of vegetative flush, subsequent spray carbendazim 50% WP 0.05% @ 1 g/l water at 20 days after first spray + spray propargite 57EC 0.11% @ 2.0 ml/l water at 20 days after second spray + spraying 200 ppm NAA @ 0.2 g/l water in second week of December followed by spraying of 500 ppm ethrel @ 0.5 g/l water at bud inception stage for the management of malformation in mango.

As per CIBRC format

Pesticides with formulation	a.i. (g)	Formulation (g/ml)%	Dilution in Water	Waiting period
Carbendazim 46.27 SC	46 g/100	1gm/ lit	0.1% or 100ml / 100l water	30
Copper oxychloride 50	0.12% or 120g /100Ltr. water	0.24% or 240g	100Ltr. water	10
Alpha Naphthyl Acetic Acid 4.5% SL (Na salt) To control Mango malformation- Before fruit bud differentiations approx. months before flowering	200ppm	-	20 ml in 4.5 ltrs	-
Ethephon 39 % SL	770-1025 200ppm	1500-2000	26 ml in 10 lit of water	-

4. Horticulture

4.1 Effect of liquid fertilizers foliar spray on growth, yield and quality of sapota cv. Kalipatti.

Farmers of South Gujarat growing sapota cv. Kalipatti are recommended to apply foliar spray of 1 % potassium nitrate (13:00:45) (100 g in 10 lit water) in adult orchard during second fortnight of September, November and January months along with RDF (100 kg FYM + 1000 : 500: 500 NPK g/plant) for obtaining higher yield and net return.

4.2 Net house cultivation of papaya.

Farmers of South Gujarat are recommended to cultivate gynodioecious varieties of papaya under insect proof net house (40 mesh) for getting higher yield, net return and good quality fruits. Further, incidence of papaya ring spot virus (PRSV) can be prevented.

4.3 Effect of paclobutrazol application before monsoon and efficacy of bud breakers on early season flowering and fruiting in mango.

Farmers of South Gujarat having adult trees of Alphonso mango are recommended to apply paclobutrazol (25 % v/v) four times of canopy radius (m) during second week of May in soil and foliar spray of 0.5% Thiourea (50 g/10 lit. of water) after 120 days of paclobutrazol application OR apply paclobutrazol during last week of April in soil and foliar spray of 0.25% commercial grade potassium nitrate (25 g/10 lit. of water) after 120 days of paclobutrazol application along with recommended dose of fertilizers for obtaining early flowering, higher fruit yield with improved fruit quality and higher net realization.

4.4 Effect of foliar application of novel organic nutrient and micronutrients on yield and quality of mango (*Mangifera indica* L.) cv. Kesar.

Farmers of South Gujarat growing mango are recommended to apply foliar spray of 2% Novel organic liquid nutrient (200 ml/ 10 l) along with 1 % calcium nitrate (100 g/10 l) at flower bud development stage and full bloom stage along with recommended dose of chemical fertilizers for getting higher yield and net returns.

4.5 Effect of different colour shade nets on germination and seedling growth of papaya (*Carica papaya*) var. GJP-1.

Farmers and nurserymen of Gujarat are recommended to raise papaya seedlings in plug tray (media cocopeat: red soil: vermicompost, 4:1:1 v/v) under 50% white shade net during first week of March for early germination, better growth with higher net realization.

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

Farmers of South Gujarat growing *kharif* okra are recommended to apply foliar spray of 1.5 % Novel Organic Liquid Nutrients (150 ml/10 litre water) at 30, 45 and 60 DAS along with recommended dose of fertilizer (100-50-50 N-P-K kg/ha) to obtain higher yield and net return.

4.7 Effect of sowing dates and spacing on off season okra.

Farmers of South Gujarat are recommended to cultivate off season okra by sowing in 2nd week of October with spacing of 45 cm x 10 cm to obtain higher net return.

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

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

4.9 Effect of different growing media on fern under benching system in polyhouse.

Farmers of Gujarat growing ferns for cut greens as secondary crop under benching system in naturally ventilated polyhouse are recommended to grow in media comprising of cocopeat for better plant growth, cut greens yield and net returns.

4.10 Effect of different bio-chemicals for increasing suckers in Haworthia pot plant

Nurserymen of Gujarat growing haworthia as pot plant under naturally ventilated polyhouse are recommended to spray Benzyladenine @ 25 mg/l twice after two months of pot planting at 15 days interval to obtain early and more number of suckers for propagation.

4.11 Accessing compatibility of different scion to develop multi grafted adenium under soilless growing system

Nurserymen and amateurs gardeners of Gujarat are recommended to develop multi grafted adenium on single local rootstock with scion combination as mentioned below:

1. For triple grafted adenium: G.Ad1 + G.Ad2 + Aabha to obtain maximum flowers/plant, flower clusters/plant and synchronization of flowering days with high overall quality score.
2. For dual grafted adenium with multipetalous flowers: G.Ad1 + Aabha or G.Ad2 + Aabha to obtain maximum synchronization of days for flowering and number of flowers during most part of the year with higher aesthetic value.
3. For dual grafted adenium with single type flowers: NASDUS2 + NAPVW1 to obtain earliest flowering as well as more number of flowers/plant with high aesthetic value.

4.12 Effect of foliar application of nutrients on growth and flowering of orchid (*Dendrobium*) under NVPH

The farmers of Gujarat growing *Dendrobium* orchid under naturally ventilated polyhouse are recommended to give foliar application of 400 ppm N, 200 ppm P and 400 ppm K (782.61 mg/l urea, 327.80 mg/l 12:61:00 and 800.00 mg/l 00:00:50) two times per week for getting higher yield and better flower quality.

4.13 Standardization of technology for minimal processing of fresh cut cauliflower (*Brassica oleracea* var. botrytis L.).

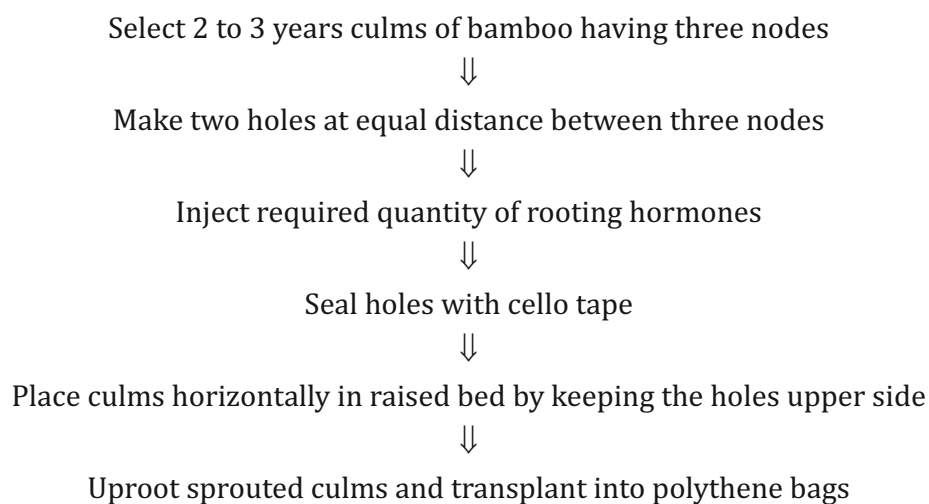
It is recommended to the processors and entrepreneurs that minimally processed fresh cut cauliflower pieces (25 mm size) can be prepared followed by its blanching for 3 minutes at 95°C along with 1.0 % calcium chloride (CaCl₂). Then keeping in the solution of 0.1 % citric acid and 0.1 % potassium meta bisulphate for 15 minutes. After removal of excess water, the pieces packed in 200 gauge LDPE (Low Density Poly Ethylene) bags can be stored successfully for 20 days at refrigerated temperature (5°C).

5. Forestry

5.1 Macro propagation of different bamboo species by culm cutting with different root hormone treatments.

Farmers/nursery entrepreneurs of Gujarat are recommended to use 2 to 3 years culms of bamboo in the month of February-March by making two holes between two nodes and inject 120 ml (60 ml + 60 ml) NAA 500 ppm in *Bambusa balcooa*, 120 ml (60 ml + 60 ml) IBA 500 ppm in *Bambusa bambos* and *Dendrocalamus stocksii* and 120 ml (60 ml + 60 ml) IBA 200 ppm in *Bambusa vulgaris* var. *vulgaris* followed by sealing of holes for large scale propagation by culm cutting technique in the following manner.

Culm cutting process:



5.2 Development of volumetric equation for Eucalyptus (*Eucalyptus spp.*)

It is recommended that farmers, foresters and wood merchants of South Gujarat can use volumetric equation, $V = 0.0621 + 0.000037 D^2H - 0.0003D^2 + 0.0009DH - 0.0104 H$ ($R^2 = 0.951$) ($V =$ Volume in m^3 , $D =$ Diameter at Breast Height in cm, $H =$ Height in m) for 10-60 cm DBH and below given local volume table for estimation of volume of standing Eucalyptus trees.

5.3 Effect of different pre-sowing treatments on germination of Red Sanders (*Pterocarpus santalinus* L.f.)

Nurseryman and forest dwellers/ farmers are recommended to soak pods of Red Sanders (*Pterocarpus santalinus* L.f.) in GA_3 @ 500 mg/l for 1 day followed by sowing in the month of March in sand bed for sprouting and then after transplanting at two leaves stage in to growing media of Soil : Sand : FYM (2:1:2) to enhance seed germination and seedling growth.

Note: Dilute 500 mg of GA_3 in 100 ml of water along with 5-10 ml of alcohol. Mix it properly till GA_3 dissolved and make final volume upto 1 litre.

5.4 Effect of Eucalyptus plantation on soil fertility in South Gujarat

It is recommended to farmers of Gujarat that under Eucalyptus plantation, Soil pH is reduced whereas organic carbon, available P_2O_5 , available K_2O , soil bacterial and fungal population are increased. Moreover, soil EC and available nitrogen are not affected due to Eucalyptus plantation.

6. Agricultural Engineering

6.1 Development of Zero Energy Evaporative Cooling Storage Structure (ZEECSS) for Tribal Region of Dediapada.

The farmers and entrepreneurs of dry tribal region of South Gujarat are recommended to use Zero Energy Evaporative Cooling Storage Structure (ZEECSS) having 50 kg capacity consisting of bricks cooling pad having 10 cm thickness, to store yellowish red fresh tomatoes up to 10 days without loss with 11 ± 2 °C temperature drop, 87% Relative humidity, $677.89 W/m^2$ solar radiation and 2.39 m/s wind speed towards the wind direction.

6.2 Design, development and performance evaluation of mixed mode cabinet solar dryer.

Farming community and entrepreneurs are recommended to use the 20 kg capacity mixed mode cabinet solar dryer ($2m^2$ solar collector and $0.8 m^3$ drying chamber with glass cover) for:

- (i) Tomato drying (from 94 % moisture content to 8 % moisture content) cut in to 8 mm thick slices and $7 kg/m^2$ tray load in 10 hours in summer and 14 hours in winter, which saves 22 hours and 34 hours respectively in summer and winter, compared to open sun drying.
- (ii) Onion drying (from 85 % moisture content to 8 % moisture content) cut in to 8 mm thick slices and $7 kg/m^2$ tray load in 9 hours in summer and 13 hours in winter, which saves 20 hours and 29 hours respectively in summer and winter, compared to open sun drying.

7. Animal Production and Fisheries

7.1 Impact of bedding material on performance of commercial broilers.

The broiler farmers of South Gujarat region are recommended to use black sand (1.5 inch thickness) as bedding material during winter season for economic rearing of broilers in comparison to shredded paper.

7.2 Estimation of genetic trend for growth related traits in Surti goats.

- A) The Surti kids born during monsoon season (July to October) fetches more body weight during the age of 6 to 12 months as compared to other seasons. So the Surti goat keepers of South Gujarat are recommended to breed the females so that birth of kids takes place during monsoon season.
- B) The body growth of Surti goats born as twins and triplets becomes at par with that of singlet born kids after 9 months of age. So the goat keepers of South Gujarat are recommended to keep the Surti goats giving birth to twins and triplets.

7.3 Effect of steaming-up on growth performance of grazing Surti goats and their kids in high rainfall zone of South Gujarat.

The Surti goat rearing farmers of South Gujarat are recommended that feeding of concentrate (18 % CP) 60 days before kidding up to 60 days after kidding @ 200 g/d increases milk yield and milk fat in goats, higher birth weight and improved growth rate in Surti kids.

7.4 Studies on effect of different ecboolic agents on post-partum reproductive performance in Surti buffaloes.

Surti buffalo owners are recommended to give oral ayurvedic liquid ecboolic preparation @ 100 ml for 10 days, immediately after parturition to improve the reproductive efficiency.

Composition of Herbal Liquid Ecboolic:

Each 10 ml contains extract derived from (in mg) *Aloe barbadensis* Lx.-80, *Aristolochia indica* Rt.-160, *Citrullus colocynthis* Rt.- 20, *Cyperus rotundus* Rz.- 120, *Caesalpinia crista* Sd.- 120, *Desmodium Gangeticum* Wh. Pl.- 60, *Gardinia gummifera* Ex.- 80, *Gloriosa superba* Rt.- 120, *Gossypium herbaceum* Rt.- 160, *Inula racemosa* Rt.-60, *Leptadenia reticulata* St.- 160, *Lepidium sativum* Fr.- 100, *Plumbago zeylanica* Rt.- 160, *Peganum harmala* Sd.- 160, *Piper longum* Rt.- 80, *Rubia cordifolia* Rt.- 160, *Saraca indica* Bk.-120, *Tribulus terrestris* Fr.- 40, *Uraria picta* Wh. Pl-40, Excipients-q.s.

7.5 Study of *Silago sihama* fish growth under varying salinities.

The brackish water fish growing farmers of Gujarat are recommended to rear *Silago sihama* fry in

Recommendations for Scientific Community (2021-22)

1. Natural Resource Management

1.1 Evaluation of ground water suitability for irrigation in Navsari district

- The Navsari taluka's groundwater was neutral to alkaline. The high salinity could be attributable to a stronger water-rock interaction, such as mineral dissolution and evaporation concentration functions.
- Among cations, strong alkalies predominate over alkaline earth metals, exhibiting a pattern of Na⁺>Mg⁺⁺>Ca⁺⁺> K⁺. While anions are dominated by bicarbonates > chlorides > sulphates > nitrate > boron ≈ fluoride > bromide. The groundwater was found to be of the Na-HCO₃ type.
- Prior to the monsoon, the bulk of groundwater was classified as moderately or severely restricted for agricultural purposes. However, following the monsoon, a large amount of groundwater was limited to a low to moderate degree. As a result, seasonal changes have had a major impact on groundwater composition, as irrigation water quality indicators improved during the post-monsoon period (November 2019) compared to the pre-monsoon period (May 2019).

1.2 Weed management with pre and post emergence herbicides in linseed

Application of pendimethalin 1.0 kg/ha as pre-emergence fb hand weeding at 40 days after sowing for was found effective for weed management and obtaining economical yield of linseed.

2. Plant Protection

2A. Agricultural Entomology

2A.1 Screening of sapota germplasm against seed borer, *Trymalitis margarias* Meyrick

The sapota varieties/hybrids viz., Kalipatti, Kirthibarathi, DHS-2, CO-2 and Cricket ball were found more susceptible to seed borer, *Trymalitis margarias* Meyrick; while Chala collection-1, Chala collection-2, Chala collection-3, Zumakhiya, CO-1 and CO-3 were showed less susceptible to seed borer. The fruit infestation was found higher from December to February

2A.2 Evaluation of different novel plus formulations against pest complex of okra

Spray of NOVEL PLUS at 1.5 per cent @ 150 ml/10 l, six times from 30 days after germination at every 10 days interval to manage sucking pests (Aphid, Jassid, whitefly and Mite) in okra.

2A.3 Evaluation of different novel plus formulations against pest complex of mango crop

Spray NOVEL PLUS 1.5 per cent (150ml /10 lit water) three times at Inflorescence initiation, Pea stage and Marble stage to manage sucking pests (Hoppers, Thrips and Mite) in mango.

2B. Plant Pathology

2B.1 Evaluation of different spore harvesting methods of *Trichoderma viride* Pers. Ex.fr

Tween 20 @ 0.01% (v/v) in sterile saline solution (1M) can be used for maximum spore harvest of *Trichoderma viride*

2B.2 Evaluation of bio-inoculants against anthracnose of banana

The banana fruit dipping in *Bacillus subtilis* (5 ml/lit) 108 cells/ml for 5 minutes found effective to reduce the fruit rot severity in both i.e. pre and post inoculation method.

2B.3 Screening of rice promising genotypes against blast disease caused by *Pyricularia oryzae*

Rice genotypes viz., NVSR-591, NVSR 3065, IR-64 and NVSR 3110 were found highly resistant against leaf blast disease while, Lalkada (LS), HR-12 (NS), NVSR-557, NVSR-592 and GNR-4 genotypes showed highly susceptible reactions under artificial inoculation field conditions.

2B.4 Evaluation of rice genotypes against sheath blight caused by *Rhizoctonia solani*

Rice Genotypes viz., Mandakini Lambayeque and Aditya were found moderately resistant against sheath blight disease in artificial inoculation field conditions.

2B.5 Effect of biofilms formation in *Trichoderma-Azotobacter* interaction against *Macrophomina phaseolina*

Biofilm formed by *Azotobacter chroococcum* (1x10⁷ CFU) and *Trichoderma viride* (1x10⁶ CFU) leads to production of Extrapolymeric substances (EPS) which at equal proportion can help to extract EPS after 20 days incubation by ethanol precipitation. The extracted EPS @ 2g/Kg seeds of blackgram provide better colonization, increase plant growth and reduce root rot caused by *Macrophomina phaseolina* over microbial combination.

3. Horticulture

3.1 An observational trial: Effect of high density planting in cashew (cv. V-4).

The scientists are informed that cashew cv. V-4 can be grown at a spacing of 6.5 m x 6.5 m to get higher plant growth and yield.

4. Forestry

4.1 Evaluation of nutritive value of leaves of different bamboo species

Bamboo leaves are rich in nutritive value in terms of dry matter, crude protein, calcium, phosphorus, fat, carbohydrate, crude fibre, nitrogen free extract and total ash content. Therefore, it can be used for further palatability and digestibility experiments. Top five species with respect to nutritive parameters are as under.

Sr. No.	Nutritive Parameters	Range (%)	Bamboo species
1.	Moisture Content (%) and Dry Matter Content (%)	45.51 to 48.09 and 51.91 to 54.49	<i>Thyrsostachys oliveri</i> , <i>Bambusa multiplex</i> , <i>Ochlandra travancorica</i> , <i>Schizostachyum pergracile</i> and <i>Bambusa pallida</i> .
2.	Crude Protein (%)	11.71 to 12.55	<i>Thyrsostachys oliveri</i> , <i>Bambusa multiplex</i> , <i>Ochlandra travancorica</i> , <i>Schizostachyum pergracile</i> and <i>Bambusa pallida</i> .
3.	Calcium (%)	0.74 to 0.81	<i>Ochlandra travancorica</i> , <i>Bambusa pallida</i> , <i>Bambusa balcooa</i> , <i>Bambusa vulgaris</i> var. <i>vittata</i> and <i>Dendrocalamus hamiltonii</i>

4.	Phosphorus (%)	0.32 to 0.42	<i>Gigantochloa atrovioleacea</i> , <i>Bambusa nutans</i> , <i>Thyrsostachys oliveri</i> , <i>Dendrocalamus sikkimensis</i> and <i>Bambusa vulgaris var. vulgaris</i>
5.	Ether extract or Fat %	3.79 to 4.25	<i>Bambusa multiplex</i> , <i>Dendrocalamus giganteus</i> , <i>Thyrsostachys oliveri</i> , <i>Bambusa wamin</i> and <i>Bambusa vulgaris var. vittata</i>
6.	Ether extract or Fat %	76.16 to 77.91	<i>Bambusa vulgaris var. vulgaris</i> , <i>Dendrocalamus strictus</i> , <i>Schizostachyum pergracile</i> , <i>Dendrocalamus stocksii</i> and <i>Bambusa nutans</i>
7.	Crude Fibre (%)	21.22 to 22.96	<i>Bambusa polymorpha</i> , <i>Ochlandra travancorica</i> , <i>Dendrocalamus stocksii</i> , <i>Bambusa vulgaris var. vittata</i> and <i>Bambusa nutans</i>
8.	Nitrogen Free Extract (%)	52.91 to 54.75	<i>Bambusa vulgaris var. vulgaris</i> , <i>Dendrocalamus stocksii</i> , <i>Bambusa nutans</i> , <i>Dendrocalamus strictus</i> and <i>Bambusa vulgaris var. vittata</i>
9.	Total Ash Content (%)	8.00 to 9.91	<i>Bambusa wamin</i> , <i>Dendrocalamus giganteus</i> , <i>Dendrocalamus strictus</i> , <i>Bambusa vulgaris var. vittata</i> , <i>Gigantochloa atrovioleacea</i> and <i>Bambusa vulgaris var. vulgaris</i> .

4.2 Evaluation of various Poplar clones for early growth and establishment under South Gujarat condition

Poplar clone P-5503 is better suited for block plantation under South Gujarat condition.

4.3 Vegetative propagation of *Salix tetrasperma*

The vegetative propagation of Indian Willow (*Salix tetrasperma*) can be better achieved when softwood cuttings procured in the month of January and dipped in IBA @ 2500 ppm concentration for 30 minutes and grown in net-house under South Gujarat condition

5. Basic Science

5.1 In silico characterization of different banana bunchy top virus (BBTV)

Comparing Banana bunchy top virus (BBTV) different genome components, at nucleotide (DNA-R and DNA-U3), and amino acid level (DNA-C and DNA-U3) during in silico analysis of different BBTV showed higher genetic variability in all reported BBTV strains. Comparing DNA-R (Replicase protein) and DNA-S segments (Coat protein), majority of Indian isolates matched with isolates of the countries in East and Southeastern Africa region and belong to Pacific Indian Oceans (PIO) groups of BBTV isolates classification. BBTV coat protein model showed maximum binding affinity with NBS-LRR class resistance protein. Three mutagenic epitope (GDDLVLRLW, IADEFYVERL, SKRFLVLDD) were predicted from BBTV coat protein region. This will extend the understanding of the processes required for antibody binding and aid the development of epitope based diagnostic tools and for development of disease resistance/management strategy in Banana against BBTV.

5.2 Development of mapping population and identification of molecular marker linked to jassid resistance in cotton

The following transgressive RILs were identified as candidate jassid resistant lines that possess desirable biochemical traits, low jassid count with less jassid injury grade; and higher seed cotton yield than the jassid resistant parent GISV-218. Thus, these potential RILs can be used for the further development of cotton varieties with high yield and jassid resistance.

RIL No.	Character
RIL-94, RIL-31, RIL-96, RIL-108	Gossypol
RIL-88, RIL-28, RIL-96, RIL-108, RIL-107, RIL-113	Phenol
RIL-94, RIL-25, RIL-95, RIL-69	Reducing sugar
RIL-94, RIL-31, RIL-6, RIL-24, RIL-25, RIL-69	Jassid count
RIL-94, RIL-88, RIL-31, RIL-28, RIL-24	Jassid injury grade

5.3 Evaluation of biochemical parameters of selected cotton genotypes

It is recommended to scientific community to use the below mentioned cotton genotypes in the breeding programme to improve desired characters

Genotypes	Characters
G.Cot-100, GISV-218 and G.Cot-10	Protein
G.Cot-10, GSHV-01/1338 and G.Cot-100	Gossypol
G.Cot-16, GISV-218 and Suraj	Oil
LRA-5166, GISV-218 and G.Cot-16	Iodine Value
American Nectariles, Surat Dwarf and G.Cot-10	Saponification value
G.Cot-100, G.Cot-10 and G-67	Unsaturated Fatty acid
LRA-5166, GISV-218 and G.Cot-16	Poly Unsaturated fatty acid
G.Cot-100, BC-68-2 and G-67 Mono	unsaturated fatty acid

5.4 Diazotrophic bacterial population and other associated microbes on the phyllosphere of sugarcane

Sugarcane phyllospheric isolates *Bacillus amyloliquefaciens* S 2.4 and *Enterobacter cloacae* S 4.1 can be used as plant growth promoting microorganism because of multiple plant growth promoting characters viz., ACC deaminase, siderophore production, nutrient solubilization, antagonistic potential, extracellular hydrolytic enzyme secretion and plant growth hormone production under in vitro conditions.

5.5 Nutritional profiling of different Tannia (*Xanthosoma sagittifolium*) genotypes

Among Tannia genotypes; NT-5 (lower oxalate content 0.05 %), NT-9 (lower tannin content 16.24 mg/100 g) and NT-7 (higher ash content 1.98 %) are recommended for leafy vegetable purpose. Whereas, NT-5 (lower oxalate content 0.43 %), NT-3 (lower tannin 87.04 mg/100 g) and NT-1 (lower phytate 123.63 mg/100 g) are recommended for corm purpose. Further NT-5 is recommended to the breeders due to lower antinutritional factor for further breeding programme

6. Social Science

6.1 Development and standardization of scale to measure the attitude of employees towards ICTs apparatus for exploring agricultural information

Methodology: Among the available scaling techniques, an 'Equal Appearing Interval Scale Technique' developed by Thurstone's (1928) was used for selection of items and ascertaining the responses.

1. **Item collection:** 100 statements were finalized after content analysis.
2. **Item analysis:** To judge the degree of most unfavourableness to most favourableness of each statement on the 11-point continuum, the schedule was sent to 148 judges and among them 96 had responded. However as 36 had carelessly responded; only 60 schedules were kept for the study.
3. **Determination of Scale 'S' & 'Q' values:** Based on judgment, the Median Value (S) of the distribution and Inter Quartile value (Q) for 100 statements were calculated.
4. **Selection of Statements:** In all, 28 statements (17 positive and 11 negative statements) were selected whose 'S' values were greater than 'Q' values. However, when a few items had the same scale values, and for those the lowest 'Q' values were considered.

Reliability: Split Half Technique was used and reliability was 0.8907 for the year 2017, 0.9038 in the year 2018, 0.9013 in the year 2019 and 0.9068 in the year 2020. Thus, scale is recommended for Scientific Community.

Sr.	Statements	F	N	UF
1.	ICTs apparatus plays a pivotal role in exploring agricultural information. (+)			
2.	ICTs apparatus are not resolving the conflicts among the users. (-)			
3.	ICTs apparatus induces one for acquiring more information. (+)			
4.	ICTs apparatus is an effective medium to impart training. (+)			
5.	ICTs apparatus resolves the crisis of ToT staff. (+)			
6.	ICTs apparatus are unable to meet the increasing demands of farmers. (-)			
7.	Teacherless classroom can be conceptualized through ICTs apparatus. (+)			
8.	Television helps to explore new technology among the farmers. (+)			
9.	Radio converts an individual from awareness to interest stages of adoption. (+)			
10.	Farm Radio enhances the interactive communication between scientists and farmers.(+)			
11.	Computer helps to present offline agriculture content. (+)			
12.	Computer enables the extension workers to take quick decisions while ToT. (+)			
13.	In the present time crop based CD/DVD becomes ready reckoner for the farmers. (+)			
14.	Internet strengthens the linkage between different stakeholders. (+)			
15.	Accuracy of information available on the agricultural website is questionable. (-)			
16.	Web portals are useful to farmers for accurate and timely information. (+)			
17.	Mobile phone is not a potential tool to reach the unreached. (-)			
18.	Mobile phones facilitate teleconferencing within the group. (+)			
19.	Kiosk is complex ICT apparatus and therefore, it does not reach rural areas.(-)			
20.	Field functionaries have very poor acquaintance with a kiosk. (-)			
21.	Extension personnel are not considering KCC as a credible source for information. (-)			
22.	Video conferencing reduces the time and cost of extension functionaries. (+)			
23.	Practicability of video conferencing is less. (-)			
24.	Extension personnel cannot analyse the intensity of field problem by video conferencing. (-)			
25.	WhatsApp and Facebook generate the peer to peer discussion. (+)			
26.	Social Media is for entertainment only. (-)			
27.	'Kisan Mitra' app developed by NAU, Navsari is widely appreciated by the farming community. (+)			
28.	'Kisan Mitra' app is not a good source to avail offline agricultural information. (-)			

(Note: F= Favourable, N= Neutral , UF= Unfavourable)

6.2 Development and Standardization of Scale to measure knowledge of rural women about the agro-based enterprises

Methodology: Guilford method and Rulon formula (1965) was used to measure the knowledge about the agro-based enterprises.

- 1. Item collection:** 76 statements were finalized after content analysis
- 2. Item analysis:** To judge the items collected from different sources and schedule of items were sent to 178 judges and among them 82 had responded. However as 22 had carelessly responded; only 60 schedules were kept for the study.
- 3. Determination:** Calculation of “Index of item difficulty”, “Index of item discrimination” and “Biserial correlation” for all the collected items.
- 4. Selection of the statements: Based on** significant values of the biserial ' r_{bis} ', difficulty index and discrimination values, the items were selected for the final test battery of knowledge about agro-based enterprises.
- 5. Reliability:** Split half technique was used and reliability was **0.9306 for the year 2018, 0.9028 in the year 2019** and **0.9665 in the year 2020**. Thus, scale is recommended for scientific community.
- 6.** Further, it is to be noted that the right answer on the statement with dichotomous choices was given 1 score for 'YES' and 0 for 'NO' answer. Whereas for the statements with four choices, a score of 0.25 were allotted to each correct answer and the statements with three choices were allotted 0.33 score for each correct answer.

Actual format of the test to measure knowledge of rural women about agro-based enterprise as presented in following table:

Sr.	Questions
Dairying	
1	Do you know that the colostrum should be fed to the newborn calf within an hour after birth? Yes/No
2	Do you know about balanced feeding for healthy dairy animals? Yes/No
3	Do you know about treatment for improving the quality of roughages? Yes/No
4	Do you know how much mineral mixture to feed a dairy animal? Yes/No
5	Do you know that chaffing fodder is fed to dairy animals? Yes/No
6	Do you know about the importance of pre and post milking teat dip? Yes/No
7	Do you know why the orientation of cattle should be in the east-west direction? Yes/No
8	Do you know that cross ventilation is essential in cattle sheds? Yes/No
9	Do you know that concrete floor is better than kachcha floor in cattle shed? Yes/No
10	Do you know why dairy animals are vaccinated? (a) Preventing or reducing disease (b) Higher milk production (c) Other reasons
11	Do you know why deworming among dairy animals? Yes/No
12	Is raw milk safe to be consumed as such? Yes/No
13	Do you know which agency set the price of milk in Gujarat? (a) Amul (b) National Dairy Development Board (c) Gujarat Cooperative Milk Marketing Federation
14	Selling milk directly to consumers is more economically beneficial? Yes/No
15	Do you know that drinking fresh and cold water throughout the day is essential for animals? Yes/No
Vermicomposting	
1	Do you know the species of earthworms that are utilized for vermicomposting in South Gujarat? (a) Red wigglers[Eisenia fetida] (b) European night crawlers[Eisenia hortensis] (c) Red worms [Lumbricus rubellus]

2	Do you know the worms during the natural climate for compost? Yes/No
3	Do you utilize a mixture of decomposing vegetable or food waste, bedding materials for preparing vermicompost? Yes/No
4	Do you know that the site of vermicomposting attracts flies and mosquitoes? Yes/No
5	Do you know that earthworms are safe to handle with hands? Yes/No
6	Do you know about the recommended size of vermibed? Yes/No
7	How many earthworms are required for 15m×4m size vermibed? (a) 1-2kg (b)2-3 kg (c) 4-5kg (d) 10kg
8	Do you know the price of 1 kg earthworms used for vermicomposting? Yes/No
9	Do you know the sources from where one can buy earthworms? (a) Private agency (b) Agro-business Center (c) Agricultural University (d) others
10	Do you know the estimated cost for preparing vermicompost from 15m × 4m size vermibed? (a) Rs.1000 to Rs.1500(b) Rs.1500 to Rs.2000 (c) Rs.2000 to Rs.2500 (d) Above Rs.2500
11	Do you know the average selling price of 50kg vermicompost? (a) Rs.100 to Rs.200 (b) Rs.250 to Rs. 300 (c) Rs.350 to 400
Food Processing	
1	How many products of mango fruits are prepared by processing? (a)1 to 2 products (b) 2-3 products (c) 3-5 products (d) More than 5 products
2	Do you know the packaging of food is economically beneficial? Yes/No
3	Do you know about products that are prepared from pulses by food processing? (a) Papad and Vadi, (b) Soybean balls (c) protein-rich flour
4	Do you know about marketing facilities available for different food processing products in South Gujarat? (a) Hat Bazaars (b) Grocery stores (c) Commercial Online Websites (d) Craft Markets
5	Do you know that value addition gives more benefits? Yes/No
6	Do you know various sources from where one can buy fresh fruits, vegetables, chemicals and packaging materials for food processing? (a) Hat Bazaars (b) Grocery stores (c) e-Commerce websites (d) Craft Markets
7	Which fruits are uses for making pickles? (a) Mango (b) Lemon (c) Aonla (d) Koronda
Beekeeping	
1	Do you know that the <i>Apis mellifera</i> species of honeybee, which has been domesticated in South Gujarat? Yes/No
2	Honeybee activities are higher in winter as compared to summer, is it true or false?
3	Do all honeybees make honey? Yes/No
4	Do you know the honey ever goes “bad” or “spoil”? Yes/No
5	Do you know the reason for honey solidification? Yes/No
6	Do You know the places where one can buy hives for beekeeping? (a)Private agencies (b)NGOs (c) Progressive beekeepers (d) Navsari Agricultural University
7	How many beehives require for one hector cucumber farm? (a) 2-3 beehives/ha (b) 3-5 beehives/ha (c) 5-7 beehives/ha (d) Above 7/ha
8	Do you know the four frames beehive and ten frames beehive are available for beekeeping? Yes/No

9	How much honey is produced by one four frames beehive? (a) 0.5 kg to 1 kg (b) 1 kg to 2 kg (c) 3 kg to 5 kg (d) More than 5 kg
10	Which safety measures for harvesting the honey from beehives? (a) Do the inspection during nice weather (b) Wear protected Gear (c) Keep the hive tidy
11	How can we know the purity of honey? (a) Thumb test (b) Water test (c) Flame test (d) Use vinegar (e) Heat test

6.3 Group Dynamics of FIGs / CIGs working under ATMA in South Gujarat

Extension officers of ATMA project are advised to emphasize on the three dimensions of group dynamics viz. interpersonal trust, group leadership and group atmosphere in order to empower group functioning through the members. Moreover, economic orientation, extension contacts and market orientation factors/aspects of groups should also be prioritized.

6.4 Seasonal variations and Forecasting in Wholesale Prices of Okra in Surat Market

Seasonal ARIMA model to develop dependable monthly wholesale price forecasts for okra in Surat market is found to be more effective as compared to various non-seasonal models (viz. Simple Non-Seasonal, Holts Linear Trend, Brown's Linear Trend, Damped Trend) as well as various seasonal models (viz. Simple Seasonal, Winter Additive, Winter Multiplicative) on the basis of different model selection criteria like minimum Mean Absolute Percentage Error (MAPE) and minimum Bayesian Information Criterion (BIC).

6.5 Population growth study of sheath mites in different rice cultivars using statistical models

The maximum temperature and minimum relative humidity were both positively and significantly associated with the sheath mite population indicating that the weather characteristics are primarily responsible for vulnerability of the rice crop, particularly in the 42nd and 43rd SMW. Accordingly, the scientists are advised to suggest farmers take preventative steps prior to the 42nd and 43rd SMW. The Sinusoidal model accurately describes the growth pattern in almost all years. As a result, it is recommended that the Sinusoidal nonlinear model can be used to forecast Sheath mite population growth dynamics in Navsari, Gujarat.

7. Animal Science

7.1 In-vitro screening of indigenous medicinal plants for their acaricidal activity against the bovine ticks

Freeze dried methanolic extract (paste) of air dried leaf powder of 100% concentration in 5% Tween-20 of *Azadirachta indica* (Neem) / *Eucalyptus alba* (Nilgiri) stand a promising acaricidal agent on the cellulose filter paper against the adult stage of *Rhipicephalus (Boophilus) microplus* with the mortality of 98.75±1.25% / 96.25±1.83% and inhibition of oviposition of 44.47±0.87% / 42.39±0.48% at 72 hours of treatment over the extracts of *Ashoka indica* (Ashok) / *Murraya koenigii* (Curry) and 1:1 ratio of *Azadirachta indica* (Neem): *Eucalyptus alba* (Nilgiri) / *Azadirachta indica* (Neem): *Ashoka indica* (Ashok) / *Azadirachta indica* (Neem): *Murraya koenigii* (Curry) / *Ashoka indica* (Ashok): *Eucalyptus alba* (Nilgiri) / *Eucalyptus alba* (Nilgiri): *Murraya koenigii* (Curry).

7.2 In-vitro evaluation of lemongrass (*Cymbopogon flexuosus*) extract for pharmacological properties

Methanolic and aqueous extracts of lemon grass (*Cymbopogon flexuosus*) possess antioxidant, antiproteinase and antibacterial properties with following details:

Properties	Methanol Extract	Aqueous Extract
Antioxidant (IC50)		
DPPH	0.52 mg/ml	0.65 mg/ml
ABTS	0.38 mg/ml	0.45 mg/ml
Antiproteinase (IC50)	1.53 mg/ml	4.38 mg/ml
Antibacterial (MIC)		
<i>Staphylococcus aureus</i>	20.48 mg/ml	-
<i>Escherichia coli</i>	20.48 mg/ml	20.48 mg/ml
<i>Salmonella Typhimurium</i>	20.48 mg/ml	-
<i>Bacillus subtilis</i>	1.28 mg/ml	10.24 mg/ml
<i>Streptococcus pyogenes</i>	0.32 mg/ml	20.48 mg/ml
<i>Proteus mirabilis</i>	-	5.12 mg/ml

7.3 Comparative study of anaesthetic regimens of butorphanol or buprenorphine with dexmedetomidine as preanaesthetic and propofol as induction & maintenance anaesthesia in dogs.

The balanced anaesthetic protocol for performing various surgical interventions in dogs is as follows:

Butorphanol (0.2 mg/kg) or
 ↓↓
 buprenorphine (0.02 mg/kg) IM
 ↓↓
 After 15 minutes
 ↓↓
 dexmedetomidine (5µg/kg) IV
 After 5 minutes
 ↓↓
 1% propofol IV (till effect)
 (Induction Anaesthesia)
 ↓↓
 Propofol @ 0.2 mg/kg/min
 (Maintenance Anaesthesia)

7.4 Clinico-diagnostic and therapeutic study of otitis externa in dogs.

Cleaning of ear canal with normal saline followed by 0.1% salicylic acid ear cleanser twice daily along with topical and systemic antibiotic (Enrofloxacin 5mg/kg BW BID) and NSAIDs for 7–15 days can be used for management of chronic otitis externa in dogs.

7.5 Comparative efficacy of different concentrations of egg yolk for cryopreservation of Surti Buck semen

Egg yolk @10% in Tris egg yolk citrate dilutor gives better post thaw motility, live count, morphology and plasma membrane functional integrity of spermatozoa for cryopreservation of Surti buck semen.

7.6 Effect of mango (*Mangifera indica*) plant leaves extract supplementation in Tris Egg Yolk Citrate Extender on Surti buck semen quality preserved at refrigerated temperature.

The aqueous extract of Mango (*Mangifera indica*) plant leaves @1% in tris egg yolk citrate extender gives better result over 2% as well as 3% to maintain motility above 50% till 48 hours at refrigerated temperature with normal sperm membrane integrity and morphology.

Aqueous extract from Mango (*Mangifera indica*) plant leaves has good antioxidant property with inhibition percentage of 90.21 and 82.07 at concentration of 10mg/ml in ABTS and DPPH assay, respectively.

7.7 Placental morphometry *vis-a-vis* neonatal behaviour in Surti buffaloes

Placental morphometry in Surti buffaloes revealed that the multiparous buffaloes tend to have significantly ($P < 0.05$) higher breadth, radius and surface area of medium size cotyledon, weight of small cotyledon as well as higher birth weight and ponderal index of calves. Moreover, dams of male calves tend to have significantly higher radius of medium size cotyledon. Further, birth weight of calves was significantly ($p < 0.01$) positively correlated with length of placenta (0.507**), weight of placenta (0.483**), no. of large size cotyledon (0.511**), surface area of large size cotyledon (0.516**). Therefore, while selecting the animals for added birth weight of calf length of placenta, weight of placenta, no. of large size cotyledon, surface area of large size cotyledon may be considered.

7.8 Comparison of film forming solution on wound healing in rats.

The wound healing characterized by collagen deposition, vascularisation and epithelialisation of the below mentioned film-forming solution is better as compared to the 10% Povidone-iodine solution and normal saline in aseptic punched wounds of rats.

Composition of Film Forming Solution:

No.	Items/ chemicals	Quantity
1.	Chitosan	1.00 g
2.	Lemon Juice (Filtered)	100 ml
3.	Tween 20	7.0 ml
4.	Ethanol	36.0 ml
5.	Propylene Glycol	9.0 ml
6.	NaCl (Sodium chloride)	100 mg
7.	Turmeric Extract :40 mg/ml (Curcuminoids 95%)	1 ml
8.	Thymol	19.0 ml
9.	Demineralised water	To make up the volume 355 ml

7.9 Studies on effect of different ecboic agents on post-partum reproductive performance in Surti buffaloes.

Inj. Dinoprost tromethamine ($PGF_2\alpha$ analogue) @ 25 mg, I/M, immediately after parturition improves the post-partum reproductive performance in Surti buffaloes.

7.10 Tissue depletion and withdrawal period estimation of Florfenicol in feed administration to *Cirrhinus mrigala* advance fingerlings

No withdrawal period is required after use of florfenicol at 10mg/kg of fish biomass as feed additive for a period of 10 days to the advanced fingerlings of Mrigal.

Details of seed /planting material production during 2021-22

SN	Type of Seeds	Production in Quintals
1	Breeder Seed	181.30
2	Foundation Seed	263.77
3	Certified Seed	1414.05
4	Truthfully labeled	1892.11
	Total	3751.23
5	Sugarcane setts	4880

		Production in Numbers
6	Sugarcane single eye bud	124514
	Tissue-culture Plants	
7	Sugarcane	1105
8	Banana	49619

NAHEP-CAAST- Project

SN	Sale	Price (In. Rs.)
1	Wooden and Bamboo Decorates sale under NAHEP-CAAST	81,475.00/-

Summary of Research projects running at NAU during 2021-22

SN	Funding sources	Name of Projects	No. of Projects
			2021-22
1	GoG	Plan	118
		Non Plan scheme	54
		NHM/RKVY/GHM	20
2	ICAR	AICRP-18	19
		NAHEP-CAAST-1	
3	GoI	ICFRE (NTFPs)	13
		IMD, GKMS	
		DBT	
		DST	
		PPV & FRA	
		NMPB	
4	Other Agency	Other Agency	50
Total			274

List of AICRP Schemes

SN	Name of AICRP Schemes	Year of Implementation	Location
1	AICRP on Cotton	1967-68	Surat
2	AICRP on Water Management	1970-71	Navsari
3	AICRP on Sugarcane	1971-72	Navsari
4	AICRP on Sorghum	1973-74	Surat
5	AICRP on Integrated Farming System	1980-81	Navsari
6	AICRP on Fruits	1986-87	Paria
7	AICRP on Fruits	1986-87	Gandevi
8	AICRP on Agricultural Acarology	1987-88	Navsari
9	AICRP Tuber crops	2006-07	Navsari
10	AICRP on Palms (Coconut)	2008-09	Navsari
11	AICRP on Niger	2009-10	Vanarasi
12	AICRP on Cashew	2009-10	Paria
13	AICRP on Rice	2010-11	Navsari
14	AICRP Small Millets	2014-15	Waghai
15	AICRP on Spices (Network Centre)	2008-09	Navsari
16	AICRP on Vegetables (Network Centre)	2010-11	Navsari
17	AICRP on Floriculture (Network Centre)	2011-12	Navsari
18	AICRP Honey Bees and Pollinators (Network Centre)	2014-15	Navsari

Experiential Learning Programmes implemented at NAU, Navsari

SN	Name of ELP Unit	Sanctioned during	Colleges
1	Bio-fertilizer production unit	2006-07	NM College of Agriculture, Navsari
2	Dehydrated onion processing and packaging unit for value addition	2006-07	ASPEE College of Horticulture, Navsari
3	Plant tissue-culture unit	2007-08	
4	Hi-tech protected cultivation of Horticultural crops	2008-09	
5	Commercial production of Horticultural crops	2011-12	
6	Commercial Apiculture	2011-12	College of Forestry, Navsari
7	Production of Quality Planting Materials in Forestry	2015-16	
8	Enriched Vermicompost Production	2017-18	College of Agriculture, Bharuch
9	Quality Planting Material Production in Horticultural Crops	2018-19	College of Agriculture, Waghai
10	Agricultural Waste Management through Vermicompost	2018-19	

Human Resource Development

SN	Research Center	Seminar/Symposia/Conference	Winter/Summer Schools	Workshop/Short term training
1	MCRS, Surat	08	03	03
2	MSRS, Surat	22	01	04
3	WRS, Bardoli	01	00	04
4	HMRS, Waghai	04	01	01
5	NRS, Vanarasi	04	00	02
6	ARS, Tanchha	01	00	00
7	RRRS, Vyara	01	00	00
8	FRS, Gandevi	12	00	07
9	CRSS, Achhalia	00	02	00
10	AES, Paria	05	01	00
11	MRRS, Navsari	00	01	00
12	MSRS, Navsari	06	00	02
13	PCRS, Navsari	00	03	00
14	RHRS, Navsari	02	00	00
15	ARS, Mangrol	01	00	00
16	LRS, Navsari	03	02	00
Total		70	14	23

Summary of Radio/ TV talk

SN	Research Center	No. of Radio/ TV talks broadcasted
1	MCRS, Surat	02
2	MSRS, Surat	01
3	WRS, Bardoli	01
4	FRS, Gandevi	01
5	AES, Paria	02
6	MSRS, Navsari	01
	Total	08

Summary of Awards

SN	Center	No. of Awards received by scientists
1	MCRS, Surat	02
2	HMRS, Waghai	02
3	ARS, Tanchha	01
4	MRRS, SWMRU, Navsari	01
5	RHRS, Navsari	02
	Total	08

Summary of Publications

SN	Centers	Research Paper/s	Books/ Book Chapters
1	MCRS, Surat	08	03
2	MSRS, Surat	03	00
3	WRS, Bardoli	02	00
4	HMRS, Waghai	09	00
5	ARS, Tanchha	00	03
6	RRRS, Vyara	02	00
7	FRS, Gandevi	06	03
8	NARP, Bharuch	02	00
9	CRSS, Achhalia	01	00
10	AES, Paria	10	01
11	MRRC, SWMRU, NAU	04	01
12	PCRS, Navsari	02	00
13	RHRS, Navsari	01	00
14	RCRS, Bharuch	02	00
15	LRS, Navsari	08	00
	Total	60	11

Research Publications

SN	Details of Publications	Name of Research station	NAAS rating
1	Desai, H. R., Patel, R. D., Bhanderi, G. R. and Patel, M. C. 2022. Insight into innovations in entomology and their applications in pest management in Gujarat cotton. <i>Cotton Innovations</i> , 1(11): 10-16. (Published by <i>International Cotton Research Association</i> , www.icracotton.org)	MCRS, NAU, Surat	--
2	Bhavik K. Patel, Prashant B. Sandipan, S. K. Chawada and R. K. Patel. 2021. Evaluation of various combi product fungicides for the control of wilt (FOV) disease of cotton under in vitro condition of South Gujarat (India). <i>International Journal of Chemical Studies</i> , 9 (1): 2992-2995 (ISSN: 2349-8528).	MCRS, NAU, Surat	5.31
3	Bhavik K. Patel, Prashant B. Sandipan, S. K. Chawada and R. K. Patel. 2021. Wilt: An important fungal disease of cotton under South Gujarat of India. <i>International Journal of Chemical Studies</i> , 9 (1): 296-271 (ISSN: 2349-8528) (Special Issue 1)	MCRS, NAU, Surat	5.31
4	Padaliya, P. J., Desai, H. R., Patel, R. D. and Bhanderi, G. R. 2021. Insecticide resistance in cotton mealybug, <i>Phenacoccus solenopsis</i> Tinsley population collected from farmer's field of Bharuch district of Gujarat. <i>Journal of Plant Development Sciences</i> , 13(11):843-849.	MCRS, NAU, Surat	4.13
5	Chauhan, S. N., Bhanderi, G. R., Patel, R. D and Desai, H. R. 2021. Insecticide resistance in cotton thrips, <i>Thrips tabaci</i> population collected from farmer's field of Bharuch district of Gujarat. <i>Multilogic in Science</i> , 12(40):202-206.	MCRS, NAU, Surat	4.51
6	Shruthi K, D. H. Patel, Rajkumar, B. K, Patel R. K. and Modha, K. G 2021. Analysis of genetic diversity in cotton genotypes using DNA marker. <i>The Pharma Innovation Journal</i> , SP-10(11): 30-34.	MCRS, NAU, Surat	5.23
7	Chandrakant Singh, Rajkumar BK and Kumar V. 2021. Differential response of antioxidants and osmolytes in upland cotton (<i>Gossypium hirsutum L.</i>) Cultivars contrasting in drought tolerance. <i>Plant stress</i> , 2, 100031.	MCRS, NAU, Surat	--
8	Chandrakant Singh, Rajkumar, B. K. and Kumar V. 2021. Water-deficit stress Induced physio-biochemical changes in cotton (<i>Gossypium hirsutum L.</i>) Cultivars. <i>Indian Journal of Biochemistry & Biophysics</i> , 58: 83-90.(Impact factor : 1.476)	MCRS, NAU, Surat	7.92
9	Sahil Sindhi, B. K. Davda, B. Gangaiah, N. V. Radadiya and K. G. Kanjaria 2022. Evaluation of pre-released <i>kharif</i> grain sorghum genotypes to different fertility levels under deep clay soils of Gujarat. <i>The Pharma Innovation Journal</i> , SP-11(3): 1180-1183.	MSRS, NAU, Surat	5.23
10	N. K. Kavadi, K. A. Patel, N. V. Radadiya, K. M. Patel and P. D. Ghoghari 2022. Influence of different planting periods on damage of rice leaf folder, <i>Cnaphalocrocis medinalis</i> Guenee (Pyralidae: Lepidoptera). <i>The Pharma Innovation Journal</i> , 11(9):1526-1531.	MSRS, NAU, Surat	5.23

11	N. K. Kavad, K. A. Patel, N. V. Radadiya, K. M. Patel and V. A. Patil 2022. Population dynamics of rice leaf folder, <i>Cnaphalocrocis medinalis</i> Guenee (Pyralidae: <i>Lepidoptera</i>) on rice in relation to weather parameters. <i>The Pharma Innovation Journal</i> , 11(9): 628-633.	MSRS, NAU, Surat	5.23
12	Patel, J. M., Vekariya, R. D., Patel, S. K., Patel, C. R., Malviya, A. V. and Chaudhary, S. M. 2022. Evaluation of bread wheat (<i>Triticum aestivum</i>) genotypes using drought susceptible and tolerance efficiency indices under irrigated and drought stress environment. <i>Res. on Crops</i> , 22 (3):492-500.	WRS, Bardoli	4.56
13	Vekariya, R. D., Patel, A. I. and Patel, A. A. 2022. Phenotypic screening of okra hybrids against yellow vein mosaic disease and shoot and fruit borer. <i>Applied Biological Research</i> . 24(3): 307-314.	WRS, Bardoli	4.96
14	Harshal E. Patil, Tanvi A. Darji, Vikas Pali.2021. Genetic diversity studies for yield and quality traits in barnyard millet. <i>Journal of Innovative Agriculture</i> , 8(1): 21-26, 2021	HMRS, Waghai	4.21
15	V, Ladumor., Harshal, L., Patil, L. E., Stuti, K., Parekh, Vipul B. 2021. Breeding Approaches for Blast Resistance in Finger Millet [<i>Eleusine coracana</i> (L.) Gaertn]. <i>Indian Journal of Plant protection</i> , 48 (4)-2020.(ICAR publication)	HMRS, Waghai	5.21
16	D. M.Damasia, J. J. Pastagia., H. R. Kachela.2021. First report of the occurrence of fall armyworm, <i>Spodoptera frugiperda</i> (J E Smith) on Finger millet in Gujarat. <i>Indian Journal of Plant protection</i> , 48 (4)-2020.(ICAR publication)	HMRS, Waghai	5.21
17	Vaishali Ladumore, Dela G Jumabhai, H. E.Patil and S. N. Patel.2021. Genetic diversity studies in little millet (<i>Panicum sumatrense</i> Roth. Ex. Roemer and Schultes) genotypes: A multivariate PCA analysis. <i>The Pharma Innovation Journal</i> , 10(9): 1067-1071	HMRS, Waghai	5.23
18	Harshal E Patil.2021. Reproductive biology, breeding behaviour, emasculation, pollination techniques and hybridization in little millet (<i>Panicum sumatrense</i> L.). <i>The Pharma Innovation Journal</i> , 10(11): 1153-1159	HMRS, Waghai	5.23
19	V.L. Ladumor, H.E. Patil and K.G. Modha.2021. Genetic diversity in finger millet [<i>Eleusine coracana</i> (L.) Gaertn] using principal component analysis. <i>The Pharma Innovation Journal</i> , 10(9): 1827-1831	HMRS, Waghai	5.23
20	VL Ladumor, VB Parekh, Stuti Krishna and H.E. Patil.2021. Genetic diversity in finger millet [<i>Eleusine coracana</i> (L.) Gaertn] Using ISSR markers. <i>The Pharma Innovation Journal</i> , 10(5): 31-39.	HMRS, Waghai	5.23
21	Harshal E Patil, Vikas Pali, B. K Patel and M Elangovan.2021. Waghai White Nagli-55 (WWN-55): High grain yielding, Multiplier, Multi finger, long finger, bold grain white finger millet (<i>Eleusine coracana</i> L. Gaertn) genotype. <i>The Pharma Innovation Journal</i> , 10(12): 111-117.	HMRS, Waghai	5.23
22	Harshal E Patil, G. D. Vadodariya and Bhavesh Chaudhari.2022. Evaluation of Finger Millet Genotypes by Using PCA: A Multivariate Analysis. <i>Progressive Research: An International Journal</i> , 17 (1): 44-47.	HMRS, Waghai	4.23
23	Vishruta D. Babariya and Kedar Nath. 2021. Response of chickpea (<i>Cicer arietinum</i> L.) genotypes against collar rot disease caused by <i>Sclerotium rolfsii</i> Sacc. <i>Journal of Experimental Agriculture International</i> , 43 (6) 9-18.	RRRS, Vyara	4.89

24	Patel S. N., Patel V. P., Modha K. G. and Parekh V. B. 2021. Rice hybrid purity testing at molecular level for development of F2 mapping population. <i>The pharma innovation journal</i> , 10(8): 1358-1362.	RRRS, Vyara	5.23
25	Bisane, K. D. and Naik, B. M. 2021. Impact and reliability of weather factors on occurrence of sapota seed borer, <i>Trymalitis margarias</i> Meyrick. <i>International Journal of Tropical Insect Science</i> , 41(2): 1729-1737	Fruit Research Station, Gandevi	6.77
26	Solanki, K. R. and Bisane, K. D. 2021. Sapota varietal performance under different spacing against bud borer, <i>Anarsia achrasella</i> Bradley and their management. <i>Pest Management in Horticultural Ecosystem</i> , 27(1): 4-10.	Fruit Research Station, Gandevi	5.05
27	Bisane, K. D. 2021. Varietal screening of sapota against chiku moth, <i>Nephopteryx eugraphella</i> (Ragonot) under South Gujarat condition. <i>Journal of Experimental Zoology, India</i> , 24(2): 1819-1827	Fruit Research Station, Gandevi	5.25
28	Modi, P. K., Patel, A. P. Patel., A. R. Patel, A. N. Ahir, T. R. Bisane, K. D. and Naik, B. M. 2021. Synergistic influence of bio-fertilizers, growth regulator and micronutrients on yield and economics of sapota cv. Kalipatti. <i>International Journal of Plant and Soil Science</i> , 33(21): 107-116.	Fruit Research Station, Gandevi	5.07
29	Bisane, K. D. and Naik, B. M. 2021. Evaluation of sapota varieties against seed borer, <i>Trymalitis margarias</i> Meyrick. <i>Indian Journal of Entomology</i> , 83(4): 606-609.	Fruit Research Station, Gandevi	5.08
30	Narendra singh, Nakesh R. Patel and Ashwin. M. Patel. 2021. Ascertaining sources of resistance against Fusarium wilt and sterility mosaic disease of pigeonpea <i>Pl. Dis. Res. 36 (1): 74-79</i>	NARP, Bharuch	4.76
31	Narendra singh, Nakesh R. Patel and Ashwin. M. Patel. 2021. Evaluation of Pigeonpea Genotypes against Fusarium Wilt and Sterility Mosaic Disease in Gujarat, <i>Indian Journal of Agricultural Research</i> .	NARP, Bharuch	5.20
32	B.A. Chaudhari, M.P. Patel, D.T. Dharajiya, A.M. Patel and M.R. Thakur 2021. Oil Content and Fatty Acid Composition in Castor (<i>Ricinus communis</i> L.) Genotypes. <i>IJAEB</i> .14(03): 319-324.	CRSS, Achhalia	4.54
33	Der, M. L.; Patil, S. J.; Patel, N. B. and Tandel, B. M. 2021. Effect of different month of ratooning with bunch spray of GA ₃ and BA on quality of banana (<i>Musa paradisiaca</i> L.) cv. Grand Nain. <i>The Pharma Inn. J.</i> , 10(10): 960-962.	AES, Paria	5.23
34	Bana, J. K.; Jaipal Singh Choudhary, Sushil Kumar; Ghoghari, P. D.; Kalaria, G. B.; Desai, Himanshu Ramanlal; Patil, S. J. and Prakash Patil 2021. Seasonal time series forewarning model for population dynamics of mango hopper (Hemiptera: <i>Cicadellidae</i>) in humid agro-climatic conditions. <i>Int. J. Pest Mangt.</i> 67 (4):1-12.	AES, Paria	7.09
35	Jinalben J Tandel; Patil, S. J.; Sanjeev Kumar; Gaikwad, S. S. and Tandel, B. M. 2021. Effect of defoliation and storage of scion stick on growth of softwood graft of mango var. Sonpari. <i>Int. J. Chem. Studies</i> , 9 (4): 308-310.	AES, Paria	5.31

36		AES, Paria	5.23
37	Sushitha, M. B.; Desai, Chirag; Mayani, Jilen; Patil, Sagar and Raghavendra, H. R. 2021. Effect of blending proportion and storage on sensory parameters of blended juice using banana pseudostem sap with noni, <i>Aloe vera</i> and guava. <i>The Pharma Inn. J.</i> 10(5): 568-573.	AES, Paria	5.38
38	Raghavendra, H. R., Desai, Chirag; Mayani, Jilen and Patil Sagar 2021. Standardization of banana fruit (<i>Musa Paradisiaca</i> L.) and pseudostem central core blended jam. <i>Int. J. Curr. Microbiol. App. Sci.</i> , 10(02): 1-15.	AES, Paria	5.31
39	N. B. Gohil, V. P. Ramani, V. H. Kadivala and R. P. Kacha. 2021. Effects of Bio-NPK Consortium on growth, yield and nutrient uptake by rice under clay loam textured soil. <i>Journal of the Indian Society of Soil Science</i> , 69(2): 179-186.	AES, Paria	4.75
40	Modi, P.K., Chavan, S.M. and Verma, P. D. 2021. Extent of Adoption of “Novel Organic Liquid Nutrients” in Fruits and Vegetable Crops. <i>Agriculture Science Digest</i> , 41(1): 93-95.	AES, Paria	7.80
41	Adrish Dey, Pathour R. S., Meshram, N.M, Sabtharishi S., Mallikarjuna J., Kalleshwaraswamy, C. M., Chavan, S.M., Jawala J. and Suby, S. B. 2021. Molecular diversity of <i>Sesamia inferens</i> (Walker, 1856) (Lepidoptera: Noctuidae) from India. <i>3 Biotech</i> , 11:134.	AES, Paria	5.08
42	Chavan, S. M., Modi, P. K. and Pandya C. D. 2021. Species composition of sugarcane shoot borers in South Gujarat. <i>Indian Journal of Entomology</i> , Online published (Preview) in www.entosocindia.org Ref. No. e20373.	AES, Paria	5.08
43	Chavan, S.M., Modi, P.K., and Verma, P. D. 2021. Pesticide use pattern in rice. <i>Indian Journal of Entomology</i> Online published Ref. No. e21097.	MRRC, SWMRU. Navsari	5.23
44	Mungra K. S., Chauhan D. A., Vavadia P. A., Naghera Y. V. and Vadodariya G. D. 2022. Genetic analysis for yield and its components in Cowpea (<i>Vigna unguiculata</i> (L.) Walp.). <i>The Pharma Innovation Journal</i> . 11(2): 1469-1472.	MRRC, SWMRU. Navsari	5.23
45	Prajapati, A. P., Patel P. B., Trivedi N., Bhimani H. D. and Kanetiya H 2022. Chemigation versus foliar application for management of pest complex of cowpea (<i>Vigna unguiculata</i> L. Walp) under South Gujarat conditions. <i>The Pharma Innovation Journal</i> , SP-11(1): 306-309. (NAAS: 5.23)	MRRC, SWMRU. Navsari	5.23
46	Gayathri A, Usadadiya V. P. and Patel P. B. 2022. Effect of different nitrogen levels and bio-fertilizers along with banana pseudostem sap on summer hybrid rice (<i>Oryza sativa</i> L.) under South Gujarat condition. <i>The Pharma Innovation Journal</i> ; 11(3): 485-490. (NAAS: 5.23)	MRRC, SWMRU. NAVSARI	5.23
47	B. S. Sing and V. P. Patel. 2021. Study of heterosis and inbreeding depression in F ₂ generation of upland rice (<i>Oryza sativa</i> L.). <i>The Pharma Innovation Journal</i> . 10(5):655-60	PCRS, Navsari	5.23
48	B. S. Sing and V. P. Patel (2021). Generation Mean Analysis in upland rice (<i>Oryza sativa</i> L.). <i>Green Farming</i> . 12(1&2):1-6.	PCRS, Navsari	3.85

49		RHRS, Navsari	4.53
50	P. P. Bhalerao, H. P. Maheswarappa and S. Sumitha. 2021. Effect of integrated nutrient management on coconut (<i>Cocos nucifera</i>) based cropping systems in South Gujarat. <i>Current Horticulture</i> , 9(2): 52-55.	RCRS, Bharuch	--
51	Devashrayee Vaidik M, D. R. Patel, S. G Patel and A Shrivastava 2021. Screening of Indian bean genotypes/cultivars against major insect pests <i>Journal of Entomology and Zoology Studies</i> , 9(2): 117-121	RCRS, Bharuch	--
52	Balai Yagnesh, D.R.Patel and Gami, P. S. 2021 Screening of sesame genotypes/cultivars against major insect pests. <i>Journal of Entomology and Zoology Studies</i> ; 9(5): 362-365	LRS, Navsari	5.23
53	Raval Jeetendra K, Balani Jagdish K, Bhoi Dhiren B, Parmar Hitesh C, Patel Jignesh M, Vihol Priti D, Pandya Gaurav M, Patel Jatin H and Patel Navin B. 2022. Efficacy evaluation of the herbal solution on atopic dermatitis in goats. <i>The Pharma Innovation Journal</i> . SP-11(1): 145-148,		4.93
54	D.B. Bhoi, J.K. Raval, G.M. Pandya and M.A. Katariya. 2021. Therapeutic management of <i>Buxtonella sulcata</i> infection in Surti buffalo Calves. <i>Journal of Livestock Science</i> 12: 276-278)		5.58
55	Devkatte, S., Janmeda, M., Bamani, U., Patel, S., Dangar, N., Pandya, G., & Kharadi, V. (2021). prolactin Receptor Gene Exon 9 Polymorphism in Surti and Jaffarabadi Buffaloes. <i>Ind J Vet Sci and Biotech</i> , 7(3): 36-40		5.58
56	Dangar, N.S., Pandya, G.M., Ramani, U.V., Patel, S. S., Ansari, F. 2021. Study on Genetic Polymorphism in Genes Related to Prolificacy and Foetal Growth using PCR-RFLP in Surti Goats. <i>Ind J Vet Sci and Biotech</i> , 17(4), 31-35		5.23
57	Brijal G. Bhoi, R. Navil, Patel, S. S., Sorathiya, V. K., Patel, R. and Singh, T. K. S. 2021. Effect of using system on production performance and milking behavioural traits in Surti goats. <i>Indian Journal of Animal Science</i> 90(12): 90-93, November 2021		6.32
58	P.B. Patel, N.B. Patel, L.M. Sorathiya, V.K. Singh, T.K.S. 2022. Effect of Time and Amount of Colostrum Feeding on Physiological Parameters and Health Scores in Surti Buffalo. <i>Indian Journal of Animal Research</i> , 10.18805/IJAR.B-4720		6.44
59	D.R. Prajapati, V.R. Patel, N.B. Patel, U.V. Ramani, B. Kumar, A. Londhe and A.P. Raval. 2022. Effect of fibrolytic enzyme supplementation on growth performance and nutrient utilization in Surti goat kids fed legume straw-based diet. <i>Indian Journal of Small Ruminants</i> 2022, 28(1): 61-6		5.95

Chapters in Book/ Proceedings

Suthar, K. P., Rajkumar, B. K, Parmar P. R and Singh D.2021. Molecular mechanism underlying chickpea – *Fusarium oxysporum* f. sp. *ciceri* In *Interaction sustainable agriculture reviews* 51, Legume Agriculture and Biotechnology by Guleria P., Kumar V., Lichtfouse E. (Eds.) Vol 2 51, 213-245.

Parmar P., Rajkumar, B. K and Butani N. 2022. Isolation and Identification of Entomopathogenic Bacillus Species In: *Practical Handbook on Agricultural Microbiology* by Amaresan N., Patel P., and Amin D. (Eds.), 99-110, ISSN 1949-2448 ISSN 1949-2456 (electronic)

Butani N., Satashia S., Kanpariya H and Parmar P. 2022. Isolation of Ammonia Oxidizing Bacteria in : *Practical Handbook on Agricultural Microbiology* In: *Practical Handbook on Agricultural Microbiology* by Amaresan N., Patel P., and Amin D. (Eds.), 203-217. ISSN 1949-2448 ISSN 1949-2456 (electronic)

A.C. Rai, A. Rai, K. K. Rai, V. P. Rai and A. Kumar. 2021. Book “Stress Tolerance in Horticultural Crops”, Published by Woodhead Publishing (Elsevier, U.K.) ISBN: 978-0-323-85363-7

V. P. Rai, R. Ranjan, A. R. Gadhiya, B. M. Mote.2021. Use of modern physical tools for mitigating the effect of abiotic stresses. In Book “Stress Tolerance in Horticultural Crops”, Woodhead Publishing (Elsevier) 387-397 ISBN: 978-0-323-85363-7

K. K. Rai, A. Kumar, A. Rai, V. P. Rai and A. C. Rai. 2021. Conventional breeding approaches for abiotic stress management in horticultural crops. In Book “Stress Tolerance in Horticultural Crops”, Woodhead Publishing (Elsevier) 21-32 ISBN: 978-0-323-85363-7

Patel, A. P.; Modi, P. K.; Bisane, K. D. and Naik, B. M. 2021. Different varieties of Banana (S[/GL IJ]W HFTF]). *Pub.:Gujarat Bagayat Vikas- Integrated Crop Management in Banana and Post Harvest Management*, pp. 7-10.

Patel, A. P.; Modi, P. K.; Bisane, K. D. and Naik, B. M. 2021. Macro-propagation technique for production of banana plants. *Pub.:Gujarat Bagayat Vikas- Integrated Crop Management in Banana and Post Harvest Management*, pp. 11-15.

Bisane, K. D.; Parmar; S. G.; Chaudhari, F. K. and Patel, P. A. 2021. Biological control in Fruit crops. Book chapter in *Gujarati*. *Pub.:* Plant Protection Association of Gujarat (Navsari zone) and NAHEP-CAAST (Unit-4), NAU, Navsari, pp: 116-120.

Chavan, S.M., Modi, P.K., Verma, P.D. and Pandya, C.D. 2022. IPM Technology – A Boon for Sustainable Pest Management in Brinjal. In: *Crop Protection-driven Food Safety and Security, 2022* Eds. Ghatak, A., Vishwakarma, R., Prakash, N. and Ranjeet Kumar, *International Books & Periodical Supply Service*, New Delhi, pp 93-99. (ISBN : 978-93-90425-60-0).

Desai, C. S., Patel, P. B. and Usdadia, V. P. 2021. Novel Value Added Products from Banana Pseudostem. Published in *Bananas and Plantains Leading Edge Research and Development Volume-2* by ICAR-NRC for Banana, Tiruchirappalli, INDIA PP: 921-932. ISBN: 978-81-945318-1-4.

15 | Directorate of Extension Education Navsari

INTRODUCTION

The Directorate of Extension Education is actively involved in transfer of latest technologies to the farmer's field and giving its feed back to the research workers. The Directorate of Extension Education has started functioning in 1972 during erstwhile Gujarat Agricultural University. Later on, as a consequence of the separation of Gujarat Agricultural University into four new universities in the State, Navsari Agricultural University (NAU) has come into existence on May 1, 2004. NAU encompasses seven districts, viz., Valsad, Navsari, Dangs, Surat, Tapi, Bharuch and Narmada of South Gujarat.



The Directorate undertakes extension activities through 5 KVKs (working at grass root level), Training Units (Sardar Smruti Kendra & Training and Visit System) at head quarter, ATIC, extension departments at different colleges along with the State Agricultural Management and Extension Training Institute (SAMETI), Gujarat assisting in extension reform programme.

VISION

To make the extension system '**Farmer-Driven**' and '**Market-led**' for augmenting production, productivity and income of the farming community.

MISSION

1. To bridge up the agricultural technology gap at grass root level.
2. To educate rural people to attain/participate in development.
3. To create awareness about health, hygiene, environment and bio-diversity conservation for sustainable development.
4. To link farmer with newly emerging globalized world by providing them information and guidance.
5. To develop a system of effective research and extension linkages.
6. To generate employment in the field of agriculture and allied disciplines.
7. To integrate IT in rural system for their development.

MANDATES

1. Facilitating planning, implementation, execution and monitoring of extension programmes carried out in South Gujarat region.
2. Emphasizing participatory technology generation, dissemination and utilization.
3. Offering training and field services to public, private, NGOs and corporate sectors.
4. Enhancing the agricultural vocations in the region.
5. Promoting the '**Market-led Extension**'.
6. Organizing farm advisory services at the doorsteps of the farmers.
7. Encouraging women to work in groups at the grass root level.
8. Networking of extension and development systems through ICT-mode.



Krishi Vigyan Kendra, Navsari



Krishi Vigyan Kendra, Waghai



Krishi Vigyan Kendra, Vyara



Krishi Vigyan Kendra, Narmada



Sardar Smruti Kendra



Agril. Technology Information Center, Navsari



Sardar Training Hall With Waiting Room



Agriculture Educational Museum (Educatorium)



Shashtri Krushikar Bhavan



Balram Krushikar Bhavan

FUNCTIONS AND ACTIVITIES

1. Facilitating planning, coordinating, guiding, executing, implementing, monitoring, supervising, evaluating and reporting the various extension programmes carried out in South Gujarat region.
2. Liaison with State Government, Central Government, ICAR, District Development Departments, SAUs, Cooperatives, NGOs etc. for carrying out NAU Extension Programmes.
3. To assist and complement to state government department of agriculture, public sector and voluntary organizations in effective management of extension education systems.
4. To transfer the innovative technology through *Krishi Vigyan Kendras*.
5. To organize training programmes at headquarters.
6. To serve as a single window system for providing all information regarding agriculture, providing inputs like seeds & planting material through Agricultural Technology Information Center (ATIC).
7. To act as mediator for researchers by updating them with field problems of farmers and to help them in developing "Demand Driven Technology."
8. To publish extension literature and its distribution among farmers & extension functionaries.
9. To handle various collaborative extension projects for transfer of technology.

DETAILS OF TECHNICAL STAFF WORKING UNDER EXTENSION UNIT

S.N.	Designation	No. of Posts		
		Sanctioned	Filled	Vacant
1	Director of Extension Education	1	0	1
2	Training Associate	1	1	0
3	Assistant Extension Educationist	4	3	1
4	Agricultural Officer	3	3	0
5	Agriculture Supervisor	1	1	0
6	Agricultural Assistant	2	2	0
	Total	12	10	2

TRANSFER OF TECHNOLOGY (ToT) CENTRES & EXTENSION SCHEMES

ToT Centres :NAU Transfers agricultural technology to the farmers through ToT Centres..

Type	Name of Centre	Location
● Training Centres for Farmers/Farm Women /Rural Youths	■ Sardar Smruti Kendra	Navsari
	■ Advance Training Centre for Soil and Water Management	Navsari
	■ Demonstration-cum-Training Centre for Inland Fisheries	Navsari
	■ Vegetable and Fruit Demonstration Scheme for Tribal Upliftment	Pariya
	■ Tribal Women Training Centre	Dediypada
	■ Extension Wing	Navsari
	■ Agro ITI	Navsari
● Training Centres for Extension Workers	■ Training and Visit System	Navsari
	■ Sardar Smruti Kendra	Navsari
● Advisory Services	■ Farm Advisory Services	Navsari
	■ Agricultural Technology Information Centre (ATIC)	Navsari
	■ Centre of Agricultural Extension Information System	Navsari
	■ University Educational Museum	Navsari
	■ Farm Publication	All Centres
● 1. On-farm testing 2. Frontline demonstrations 3. Trainings to farmers 4. Resource and knowledge centre of the district.	■ Krushi Vigyan Kendra	Vyara, Waghai, Navsari, Surat, Dediypada



**Agriculture Educational Museum
(Educatorium)**



**Agricultural Technology Information Centre
(ATIC)**

Vocational Certificate Courses for Rural Youth & Women:

S.N.	Name and location of the courses	Type	Duration	Intake capacity
1.	School of Baking: Navsari	Certificate	20 Weeks	16+16
2.	Landscaping and Gardening training centre: Navsari	Certificate	6 Months	20
3.	Nature and Wild life photography: Navsari	Certificate	1 Year (Weekly)	20
4.	Plant tissue culture training centre for women: Surat	Certificate	6 Months	10
5.	Turf grass management: Navsari	Certificate	6 Months	20
6.	Agro ITI: Navsari	Certificate	1 to 3 Months	20
7.	Certificate in Agricultural Extension Services for Input dealers: Navsari	Certificate	6 Month (Weekly)	40
8.	Certificate Course on Integrated Nutrient Management for Fertilizer dealers	Certificate	15 Days	40
9.	Certificate course on Insecticides Management for Insecticides Dealers/ Distributers	Certificate	12 week	40
10.	Certificate course in First Aid in Avian Health Management	Certificate	Five months Saturday (First, Third and Fifth)	20

Short duration Agro ITI courses for Skill Development in Rural Youths:

- | | |
|-----------------------|---|
| 1. Seed production | 9. Gender friendly equipments for farm women |
| 2. Organic farming | 10. Farm power machinery |
| 3. Kitchen gardening | 11. Bio-fertilizers & Bio-pesticides |
| 4. Farm management | 12. Soil-Water-Plant analysis |
| 5. Dairy farming | 13. Productive & beneficial insects |
| 6. Flower dehydration | 14. Commercial Mushroom production technology |
| 7. Tissue culture | 15. Artificial insemination |
| 8. Poultry farming | 16. Micro irrigation system |

Ongoing Extension Schemes : Extension activities through 33 Schemes

S.N.	Plan Schemes : Development Charges (12)
1	Strengthening of the Directorate of Extension Education, Navsari
2	Upgrading of the existing Sardar Smruti Kendra, Navsari
3	Establishment of Centre for Agril. Extension Information System, Navsari
4	Agricultural Technology Information Centre (ATIC), Navsari
5	Establishment of Agro ITI Centre for Agricultural & Horticulture, Navsari
6	Establishment of University Educational Museum, Navsari
7	Testing of University technologies on farmers' fields through adaptive trials, Navsari
8	Demonstration-cum-Training Centre for Inland Fisheries, Navsari
9	Vegetable & Fruit Crops Demon. Scheme for Tribal Upliftment, Paria
10	Strengthening of Soil and Water Management Training Centre, Navsari
11	Strengthening of Tribal Women Training Centre, Dediya Pada
12	Strengthening of Extension Wing, Navsari

S.N.	Non-Plan Schemes : Standing charges (05)
1	Directorate of Extension Education
2	Establishment of Sardar Smruti Kendra, Navsari
3	Establishment of Farm Advisory Services, Navsari
4	Establishment of School of Baking, Navsari
5	Upgrading of School of Baking, Navsari
S.N.	Other Agency (09)
1	Training & Visit System, Navsari (Non -Plan) , Navsari
2	Training & Visit System, Navsari (Plan) , Navsari
3	Green/Net house Farmers' Training, Navsari
4	Diploma in Agricultural Extension Services for Input Dealers, Navsari
5	Certificate in Agricultural Extension Services for Input Dealers, Navsari
6	Certificate Course on Integrated Nutrient Management for Fertilizer dealers
7	Certificate course on Insecticides Management for Insecticides Dealers/ Distributers
8	Krushi Mahotsav Programme, Navsari
9	Krushi Library, Navsari
S.N.	ICAR (07)
1	Krushi Vigyan Kendra, NAU, Vyara, Dist. -Tapi
2	Krushi Vigyan Kendra, NAU, Navsari
3	Krushi Vigyan Kendra, NAU, Dediypada, Dist. -Narmada
4	Krushi Vigyan Kendra, NAU, Surat
5	Krushi Vigyan Kendra, NAU, Waghai, Dist. -Dangs
6	Providing support to DEE for knowledge empowerment, technological backstopping, HRD and overseeing of KVKs, Navsari
7	Farmer FIRST Programme

SALIENT EXTENSION ACTIVITIES & ACHIEVEMENTS

Extension activities carried out : for the dissemination of new technology to farmers

S. N.	Extension Programmes	No. of activities	No. of Beneficiaries			
			Farmers	Women	Youths	Total
1.	On campus Farmers' Training programme	456	7843	10137	2677	20657
2.	Off campus Farmers' Training programme	314	5157	3918	914	9989
3.	Training for Extension functionaries	33	708	264	89	1061
4.	Seminar / Workshop / Symposium for Farmers	35	3760	2422	637	6819
5.	Seminar / Workshop / Interface/ Symposium for Extension Officers	15	841	74	86	1001
6.	Farmers' day / Field day	75	854	1192	294	2340
7.	Agril. Fair / Agril. Exhibition	22	3625	3103	714	7442
8.	Farmer shibir / Farm women shibir	115	2736	2891	491	6008
9.	Farmers' meeting/Krushi gosthi	100	1532	1113	261	2906
10.	Front Line Demonstrations (KVKs)	1149*	2465	1157	374	3996

11.	Adaptive trials (NAU technologies)	1373*	2448	2974	551	5973
12.	On Farm Trials	37*	151	89	27	267
13.	AICRP Demonstrations	87*	183	53	24	260
14.	Demonstrations (Research Stations)	238*	286	138	51	475
15.	Exposure visit of the farmers	21	403	467	47	917
16.	Diagnostic team visit on farmers' field	348	2075	317	215	2607
17.	Veterinary Clinic Camp/ Animal Husbandry Shibir	7	838	682	127	1647
18.	Text SMS sent on farmers' mobile	872	243765	33828	29991	307584
19.	Telephonic / e-mail guidance	4788	13473	7073	2426	22972
20.	Press-notes / Articles in vernacular Newspapers	604	Mass	Mass	Mass	Mass
21.	Radio & TV talk	42	Mass	Mass	Mass	Mass
22.	Farm Literature Publication	134	38253	36285	8607	83145
23.	Visitors (dignitaries, officers, farmers, students)	1547	16006	17261	3225	36492

* Area in Ha.

Seminar/Symposium/Interface organized for farmers : for capacity building of farmers

S. N.	Subject/Topic	No. of Programm	No. of Beneficiaries
1	Paddy Crop	2	93
2	Sugarcane Crop	1	41
3	Fruit Crops	4	1161
4	Flowers	2	173
5	Vegetable Crops	3	727
6	Pulse Crops	2	402
7	Integrated Pest & Disease Management	4	946
8	Post Harvest Technology	3	376
9	Green House Technology	1	122
10	Soil and Water Management	1	215
11	Agriculture farm Machinery	1	157
12	Animal Husbandry	2	214
13	Value Addition	2	364
14	Natural / organic farming	5	1742
15	Fishery and its Marketing	1	45
16	Prawn/Shrimp cultivation and its Marketing	1	41
Total		35	6819

Front-line Demonstrations:

The main objective of Front-Line Demonstrations is to demonstrate newly released crop production and protection technologies and its management practices in the farmers' field under different agro-climatic regions and farming situations. While demonstrating the technologies in the farmers' field, the scientist studies the factors contributing higher crop production; field constrains of production and thereby generates production data and feedback information. Total 3996 FLDs in 1149 ha. and 735 other demonstrations in 325 ha were conducted on farmers' fields under the close supervision of the NAU Scientists.

SN	Crop	No.of Demon
1	Paddy	1563
2	Sugarcane	117
3	Pigeon pea	538
4	Gram	486
5	Green gram	337
6	Nagli	87
7	Sweet corn	59
8	Okra	273
9	Groundnut	146
10	Maize	128
11	Mango	89
12	Sapota	51
13	Cashew	65
14	Turmeric	57
Total		3996



FLD on Paddy GNR-3



FLD on Soybean NRC-37



FLD on Fodder management

Adaptive Trials on University Technologies:

Adaptive or minikit trial is a method of determining the suitability or otherwise a new practice in the farmers' situations. This may be regarded as the on-farm participatory technology development (PTD) process which requires the farmers' choice and opinion about the practice as important. The main purpose of these trials was to test the new and promising practice under the local resources, constraints and abilities of the farmers.

During the year 2021-22, total 5973 adaptive trials were conducted on the farmer's fields through five KVKs in South Gujarat on newly released varieties of paddy, gram, green gram, pigeon pea, soybean, Fodder Sorghum, turmeric, tomato, chilli, Indian bean, Elephant foot, greater yam, sweet potato, Little Guard, Dragon fruit, Drumstick, mango, Banana, Conocarpus, Ajwain were conducted. Demonstration on ICM, INM, IPDM, Novel organic liquid nutrient, Liquid Bio-fertilizer, Mineral Mixture, Kitchen garden, Poultry, Paddy thresher, Mushroom Rubber Mat, Punjethi (Rack), Winnowing Fan, Plastic Jari, Stalk Puller were also conducted.



Adaptive trial on ICM in Gram GG-5



Adaptive trial on Cotton H-12



Adaptive trial on Turmeric Sugandham



Adaptive trial on Paddy GNR-6

ATMA Convergence Quarterly Meetings: An interface between ATMA, KVKs & NAU Scientists

The Directorate of Extension Education convened the "ATMA Convergence" quarterly meetings under the Chairmanship of Hon. Vice-Chancellor of NAU for facilitating an interface between KVKs, PDs (ATMA), DAOs and Scientists of NAU. One meeting (30th) was organized during the period (on 23/11/2021, 21 participants).



Dr. C. K. Timbadia, Director of Extension Education, NAU and members during 30th ATMA Convergence Quarterly Meeting

Bimonthly workshop

The Directorate of Extension Education organizes Bimonthly workshop under broad base extension training programme for agriculture and horticulture line department staff. During the period Bimonthly workshop were organized as under:

S.N.	Activities	Place	Date	Beneficiaries
1	Bimonthly workshop, Jan.-Feb., 2022	Ganesh Sugar Factory, Vatariya	01/01/2022	32
2	Bimonthly workshop, March.-April., 2022	ATIC, NAU	22-23/02/2022	24



Dr. C.K. Timbadia, DEE, NAU, Navsari discussing with the participants during workshop

Zonal Research and Extension Action Committee (ZREAC) Meetings:

Directorate of Extension Education organized one ZREAC Meeting to review the work done in last season and to make the planning for forthcoming season in convergence mode. District wise agriculture status and feedback pertaining to problems faced by the farmers in adoption of new technology at grass root level were presented by the concerned Department for all the seven Districts of South Gujarat. During the year 2021-22, the 32nd ZREAC meeting was convened through Google meet (online) on 05-10-2021.



Hon'ble Vice Chancellor, Dr. Z.P. Patel, addressing the house during 32nd Zonal Research and Extension Action Committee meeting

Scientific Advisory Committee (SAC) Meetings of KVKs:

In order to review the activities carried out by KVKs and to seek the suggestions for better planning and implementation of activities for next year, the meetings of Scientific Advisory Committee of five KVKs run under NAU were organized as under:

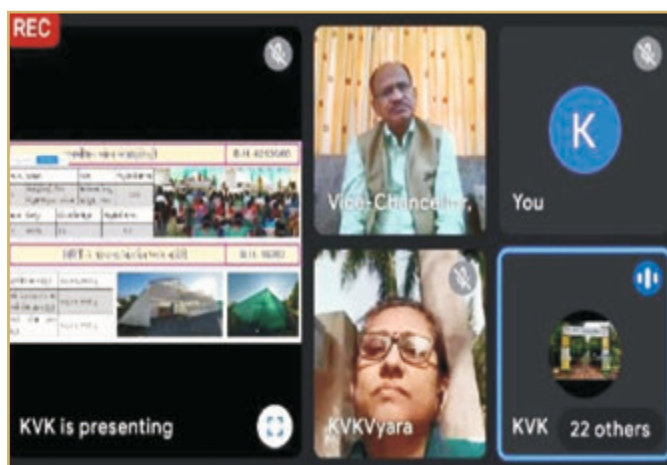
S.N.	Name of KVK	Date of meeting
1	KVK, Vyara (Tapi)	24-01-2022
2	KVK, Waghai (Dang)	24-01-2022
3	KVK, Navsari (Navsari)	25-01-2022
4	KVK, Surat (Surat)	25-01-2022
5	KVK, Dediapada (Narmada)	29-01-2022



Scientific Advisory Committee Meeting of KVK Dediapada, Dist: Narmada



Scientific Advisory Committee Meeting of KVK Surat



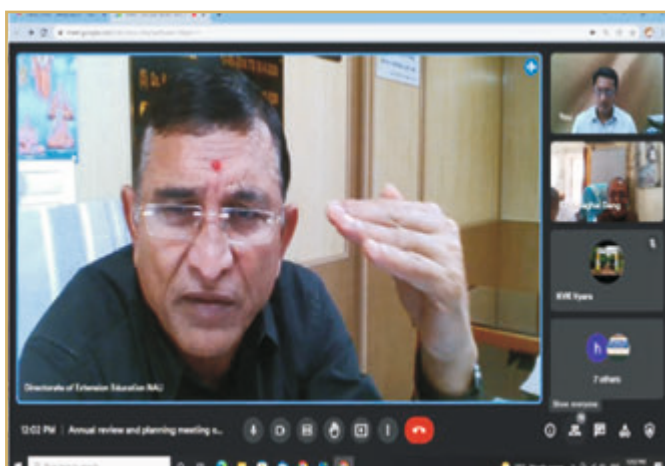
Scientific Advisory Committee Meeting of KVK Vyara, Dist: Tapi



Scientific Advisory Committee Meeting of KVK Dang

Review meeting of KVKs

Two Review meetings of Senior Scientist & Head and Scientists of KVKs under NAU jurisdiction were organized during the year (using Google meet). During the meetings, the activities carried out against target for the month and planning for the next month was discussed in detail.



Dr. C.K. Timbadia, DEE, NAU, Navsari discussing with participants during the Review meeting



Presentation by KVKs during the Review meeting

Agricultural Educatorium (University Educational Museum)

Agricultural Educatorium situated at Navsari is a one of the best agricultural Museums in India providing basics of agriculture to all walks of people. During the period, total 4156 visitors (farmers, dignitaries, scientists, students *etc.*) had visited the museum and got basic knowledge and information related to agriculture and allied subjects through various display media viz., storytelling board, kiosks, press button board, diorama, murals, show case, models, specimens *etc.*



Dignitary offering garland to Mahatma Gandhiji during his visit to Agricultural Educatorium



Farmers visiting Agricultural Educatorium



Farmers from other state visiting Agricultural Educatorium



Farm women visiting Agricultural Educatorium

Campus Visit and Comfortable Homely Stay of the Farmers

Large numbers of farmers from Gujarat, Maharashtra, Uttarpradesh and Rajasthan States are visiting NAU Navsari campus round the year to see and learn about new technologies developed and demonstrated on NAU farms. During the year, total 128 farm visits were conducted and 7863 farmers had visited the SSK and 2757 visitors had visited farms at NAU Campus. Sardar Krushikar bhawan allotted for Covid Care Centre during COVID-19 pandemic situation, total 300 patients, medical staff and 2447 officers, farmers and other visitors stayed at Kisanghar-farmers' hostel.

Campus Visit



Visitors visiting units at NAU Campus



Visitors visiting SSK at NAU Campus

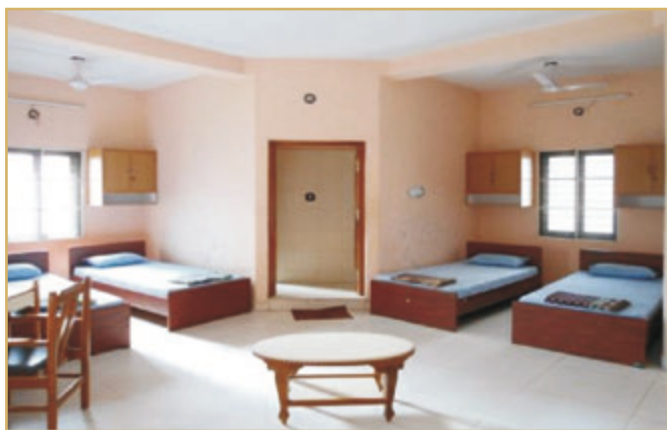


Visitors visiting units at NAU Campus



Amenities in Kisan hostel





Clean and Comfortable Kitchen & Rooms in Kisan Hostels

Certificate courses on Bakery

Bakery school, DEE, NAU, Navsari organized 20week duration two certificate courses on bakery during the year. Total 34 students have participated in the training programme, an exposure visit to BREAD LINER: South Gujarat's largest Bakery Chain, Surat was also conducted to provide skill based knowledge to design the custom cake and demonstrate the bakery products to the students. Another three skill oriented training programme of one week duration on baking were organized. Total 37 youth and farm women had participated in the one week training programmes.



Dr. Z. P. Patel, Hon'ble Vice Chancellor addressing the trainees of the course during Inugration of Bekary certificate course

Students preparing bakery product

HRD programme for Scientists of KVKs and NAU faculties

Extension Education Institute, AAU, Anand and Directorate of Extension Education, NAU, Navsari jointly organized an off campus training programme on "Recent Extension Approaches for Effective Transfer of Technology" during October 20-2, 2021 (3 days) at Agricultural Technology Information Centre (ATIC), NAU, Navsari. In which total 43 Scientists were participated. Training was inaugurated by Director of Extension Education Dr. C. K. Timbadia, Principal & Dean Dr. R.D. Pandya, Course Director Dr. K.V. Gardhariya, Training Associate Dr. G.B. Kalriya & Course Co-ordinator Dr. R.M. Bhuva. Imparted the knowledge by Scientists of EEI on Social Media-a digital Approach, Indigenous Technological Knowledge, e-Extension Through video Conferencing, PPP & Contract Farming, FPOs and Basic of Graphics Designing for Electronic Media.



Training programme for Scientists Organized by EEI, Anand & DEE, NAU, Navsari

Twelve week Certificate course on pesticides Management

Agriculture Technology Information Centre (ATIC), DEE, NAU, Navsari organized 12 week "Certificate course on Insecticides Management for Insecticides dealers/Distributors" during 27/09/2021 to 21/01/2022 under the guidance of Dr. C. K. Timbadia, Director of Extension Education for South Gujarat region. Total 32 Dealers completed the first batch. Second batch started from 4th Feb., 2022.



Dr. C.K. Timbadia, Director of Extension Education, NAU, Navsari addressing the trainees



Group photo of trainees of 12 week Certificate course on pesticides Management for Input Dealers

Vocational Training on "Gaushalanu Aayojan" under AGRO ITI

Training on "Gaushalanu Aayojan" was organized under Agro ITI during October 4-8, 2021 at Educational Museum, NAU, Navsari in which 31 farmers and farm women were participated. Training was inaugurated by Director of Extension Education Dr. C. K. Timbadia, Course Co-ordinator Dr. R.M. Bhuva & Scientists of Veterinary College. They impart the knowledge on first aids in animals, planning of dairy farm, estimation of approximate weight and age in dairy animals, assistance schemes of animal husbandry department year 2021-22, toxic principles in fodder and prevention of its toxic effects in cattle farm management and primary treatment in animal diseases through medicinal plants.



Dr. C. K. Timbadia, DEE, NAU addressing the trainees during Training on “Gaushalanu Aayojan”

Training on “Cultivation of edible Mashroom on Commercial basis”

Training on “Cultivation of edible Mashroom on Commercial basis” was organized under Agro ITI during January 4-6, 2022 at Educational Museum, NAU, Navsari in which 11 farmers were participated. Training was inaugurated by Director of Extension Education Dr. C. K. Timbadia, Course Co-coordinator Dr. R.M. Bhuva, head of Pathology Department Dr. K.B. Rakholiya & different scientists of pathology department. They gave technical lectures methods of making oyster mushroom, substrates preparation of oyster mushroom & practical session on spawn production of oyster mushroom, bag filling of oyster mushroom & making culture and spawn of oyster mushroom on cultivation of edible mushroom on commercial basis.



Training on establishment of Agro ITI Center for Agriculture and Horticulture



Training on “Cultivation of edible Mashroom on Commercial basis”

NEW INITIATIVES IN EXTENSION PROGRAMMES

Workshop on Wall Painting

The 75 years of progressive India's Independence celebrated as 'Azadi Ka Amrut Mahostav'. Hon'ble Prime Minister Shree Narendra Modiji inaugurated the curtain raiser and flag off the Freedom March or 'Padyatra' from Sabarmati Ashram, in Ahmedabad. On the occasion of celebration, NAU, Navsari organized 'Wall Painting Workshop' on April 4, 2021 in cooperation with ' Banas Katha General Workers Seva Sang', in which 25 participants taken part and they painted the outside wall of NAU boundary with Agricultural and Scientific thoughts and ideas.



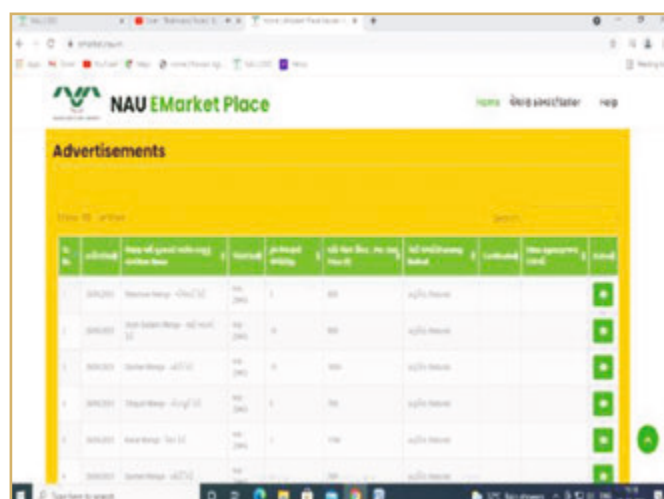
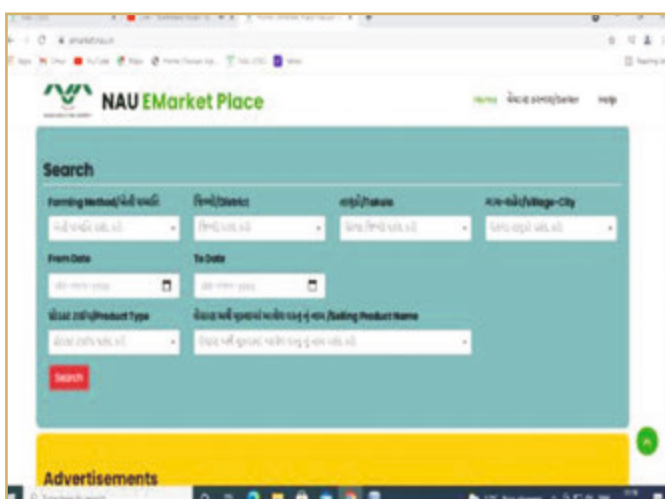
Dr. C.K. Timbadia, DEE, NAU, Navsari welcomed Pad yatri



Dr. C.K. Timbadia, DEE, NAU, Navsari addressing participants during the workshop

Training on NAU eMarket portal for KVK Scientists

DEE and IT Department, NAU, Navsari jointly organized online training programme on NAU eMarket portal for Senior Scientist & Head and Scientists of KVKs working under NAU on May 26, 2021, Chaired by Dr. C.K. Timbadia, Director of Extension Education, NAU, Navsari. During the training, importance of the portal for the farmers and other technical aspects viz., registration of the farmers, uploading of information etc. were explained by Mr. Chirag Desai. Queries from the participants were also discussed and answered satisfactorily. Total 28 Senior Scientist & Head and Scientists of KVKs participated in the training.



NAU eMarket portal screen shots

Memorandum of Understanding signed:

MoU between Digital Agri Media, Gandhinagar & NAU, Navsari

MoU between Digital AgriMedia, Gandhinagar & NAU for dissemination of technology of agriculture and allied fields among farmers through AgriMedia TV App - a delivery mechanism for Information, Services & Technology and marketing platform made on June 2, 2021.

Activities to mitigate the after effect of Tauktae cyclone

As per the guideline of Government of Gujarat, service of NAU Scientists in team were provided in the three districts of South Gujarat viz., Navsari, Valsad and Surat to provide guidance to the farmers to reduce the loss of Agricultural and horticultural crops viz., Mango, Banana, Sapota, Papaya, vegetable crops etc. due to Tauktae cyclone occurred on 17/05/2021. Team of Scientists guided the farmers regarding techniques to rejuvenate/re-establish the affected tree, value addition of fruits and other options for field crops, and NAU also issued/provided the advisories through literature, press and electronic media. In addition to that, Service of Scientists was also provided as team members for survey of damage in crops in Navsari, Dangs and Valsad districts, conducted by office of respective District Agriculture Officers.

S. N.	Activities	District	Period	No of scientists participated	Demost rations	Benefi ciaries	Note
1	Allotment of Scientists team for Tauktae cyclone survey work	Navsari Valsad	20- 29/05/2021	Navsari -12 Dangs-6 Valsad-12	-	-	Work as survey team member
2	Allotment of Scientists team for Information under Tauktae cyclone	Surat Navsari, Valsad	22- 25/05/2021	Surat-12- Navsari-12, Valsad-12 Total= 54	148	1582	Provided Guidance



Damage to crops due to Tauktae cyclone

Kharif Pak Parisamwad

As a part of celebration of Azadika Amrut Mahotsav, *Kharif Pak Parisamwad* was organized jointly by Kribhco and NAU, Navsari under the chairmanship of Shri Dileepbhai Sanghani, President, National Cooperative Union of India, Chairman, GUJCOMASOL, Vice-Chairman, IFFCO and inaugurated by Dr. Z. P. Patel, Vice Chancellor, NAU, Navsari on August 12, 2021 at NAU, Navsari.

Shri Dileepbhai in his speech emphasized on the quality produce and value addition in the different farm produce to earn more income. He also made suggestions to make cooperative more effective for rural development. Dr. Z.P. Patel, Vice Chancellor, NAU, Navsari emphasized on the development of new technologies and innovative products viz., Sapota jaggari, waffer from jack fruits, pineapple etc. by the Scientists. He also advised to reach to the farming community with farmer friendly approach and suggested to make more efforts on marketing options and packing and labelling of the farm produce. Shri P.V. Kachhadia, Sr. Area Manager, KRIBHCO described about the importance and use of biofertilizers in agriculture. Dr. C.K. Timbadia, DEE, NAU, Navsari informed the house about efforts made by NAU for marketing support to farmers viz., marketing place during Covid-19 pandemic situation, Organic Krushak Bazar for direct marketing and development of eMarket portal.

Lectures on new technologies of Paddy, Sugarcane and Post harvest technology were delivered by NAU Scientists with presentation. Exhibition cum selling stalls were organized by the Self employed farm women/SHG members and exhibited the produce and value added products prepared by them. More than 200 participants including cooperative leaders, farmers and SHG members/farm women from the nearby districts were enthusiastically participated in the programme.



Shri Dileepbhai Sanghani addressing the participants during Kharif Pak Parisamwad



Participants during Kharif Pak Parisamwad at NAU, Navsari

Webinar on Dialogue with the Organizations working for the farmers' development

Directorate of Extension Education, NAU, Navsari organized a webinar on "Dialogue with the Organization working on the farmers' development in seven districts of South Gujarat" under the chairmanship of Dr. C.K. Timbadia, DEE on July 19, 2021 with the objective to strengthen the agriculture/rural development and to Doubling the farmers' income with effective and collective efforts of organization working in the field of farmers development, women empowerment, FPOs, Women federation, SHG etc. Participants presented details of



Dr. C.K. Timbadia, DEE addressing the participants

the activities carried out by them, which motivated others to organize more activities. Dr. C.K. Timbadia, DEE in his speech urged to take benefit of the new technologies developed by the Research stations under NAU by organizing visit to stations, and mentioned that working together by KVK Scientists and organizations will result in betterment of the farming community and doubling the farmers' income. He also emphasised on getting additional income through post harvest technology. Total 63 participants joined the webinar including 7 KVKs and 45 organizations.

Capacity Building Workshop on NF for Technical Staff of KVKs

Directorate of Extension Education and *Krishi Vigyan Kendra*, NAU, Navsari jointly organised a workshop on capacity building programme on Natural Farming for KVK Scientists of South Gujarat during 23 to 25 Sept., 2021 in the gracious presence of Dr. C.K. Timbadia, Director of Extension Education, NAU, Navsari, Shri Prafulbhai Senjalia, Pujya Swami Shri Kaivalya Swarupdas, Nilkant Dham, Poicha, Pujya Swami Shri Mangal Swarupdas, Nilkanth Dham and other dignitaries. Lectures of Experienced Resource persons and farmers were organized on Natural Farming. International folk artist Shri Sairam Dave perform the Cultural program 'Dayra' during the workshop sponsored by an NGO. In the programme, 62 participants including Senior Scientist & Head, Scientist and Technical staff of seven KVKs of South Gujarat were enthusiastically participated.



Dignitaries lightning the lamp during the inauguration of Workshop



Dr. C.K. Timbadia, Director of Extension Education, NAU, Navsari addressing the participants



Participants attentively listening the resource persons during the workshop



Dr. C.K. Timbadia, DEE, NAU, Navsari expressing his feeling during the 'Dayra' by Shri Sairam Dave

“Vanijya Utsav- Capacity Building Programme

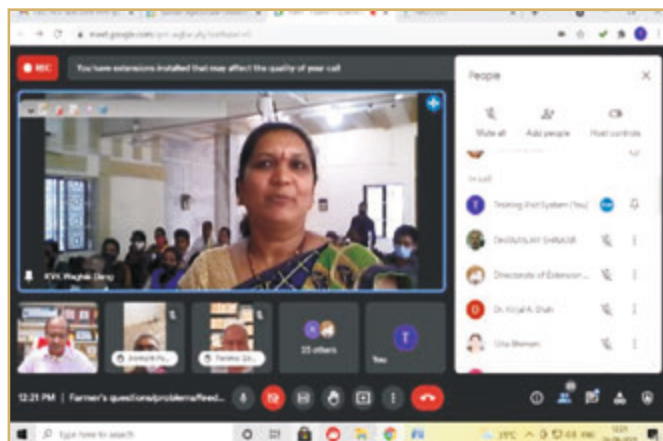
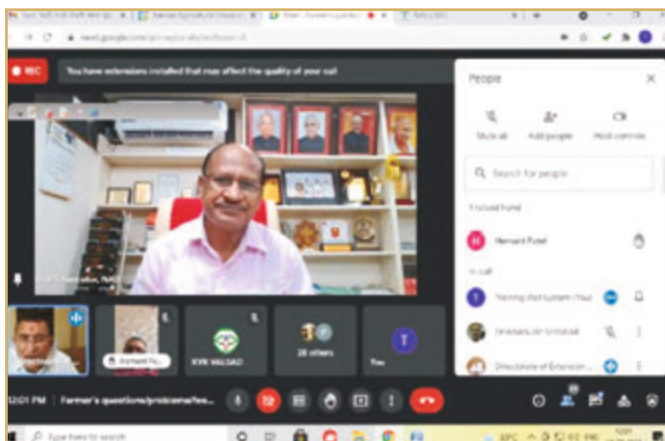
On the occasion of Azadika Amrut Mahotsav Navsari Agricultural University, Navsari in collaboration with APEDA and Horticulture department jointly organized “Vanijya Utsav- Capacity Building Programme for FPOs/Cooperative societies/Farmers and New Entrepreneurs for Exports” through Hybrid mode at NAU, Navsari on September 26, 2021. The programme was inaugurated by Dr. C.K. Timbadia Director of Extension Education as a president, Shri Man Prakash Vijay, AGM APEDA, Shri D.K. PADALIYA Deputy Director, Horticulture, Shri N. N. Patel, Deputy Director, Horticulture, Tapi, Shri Jacob Augustine, Assistant Director DGFT, Shri Chandrashekhar S. Naik, Shri Mrinal Sharma, Assistant Director NPPO, Kandla and Shri Gaurav Kumar, Assistant Director, NABARD. Main aim of this capacity building programme was aware the farmers about demand based quality production and enhances export of fruit and vegetables. Dr. C.K. Timbadia emphasize that farmers of south Gujarat getting more benefit by produce and export of scheduled product as compare to the local market. Official and exporters from APEDA, NPPO, NABARD provided guidance and encouraged farmers to export banana and mango. Total 488 farmers and farm women participated in these programme among them 226 participated offline and 262 online.



“Vanijya Utsav - Capacity Building Programme for FPOs / Cooperative societies / Farmers and New Entrepreneurs for Exports”

Farmers Feedback programme for Research issue

Agriculture Technology Information Centre (ATIC), Navsari organized farmers' feedback meeting under T & V System through online mode on August 24, 2021 in the presence of Hon'ble Vice-Chancellor Dr. Z. P. Patel, Dr. C. K. Timbadia-Director of Extension Education; Dr. G. B. Kalariya-Training Associate, ATIC, Dr. S. D. Kavad, Associate professor, DEE office, Head & scientists of all KVKs under NAU and farmers of South Gujarat region.



Hon'ble Vice-Chancellor, Dr. Z. P. Patel and Dr. C. K. Timbadia, DEE interacted with the farmers during Farmers interaction for research feedback

NATIONAL FLAGSHIP PROGRAMMES / CELEBRATIONS

Celebration of 93rd ICAR Foundation Day

Krishi Vigyan Kendra, Surat celebrated “93rd ICAR Foundation Day” on July 16, 2021. The team of KVK and Navsari Agricultural University Scientists guided to farmers on different subject viz., vegetable farming, organic farming, plant protection and animal husbandry. During this program about 278 farmers & farmwomen were participated.



Dr. Z.P. Patel, Hon'ble Vice Chancellor, NAU, Navsari addressing the participants during the programme



Scientist delivering lecture to the participants during the programme

Celebration of Parthenium Awareness week

16th Parthenium Awareness Week (August 16 to 22, 2021) celebrated by all KVKs NAU, Navsari. Various activities were organized by KVKs. Total 446 farmers and farm women participated in the programmes at different places. KVK Scientists delivered lectures on all the aspects for creating awareness about parthenium weed. How it can be identify, He highlighted on how to control, and also its hazardous effects on human beings.



Celebration of Parthenium Awareness Week at KVK, Navsari



Scientists delivering lecture during the programme, KVK, Surat

National Nutrition Month celebration

Govt. of India celebrates National Nutrition Month during September 1 to 30, 2021. All the KVKs running under NAU also celebrated the month at KVK campus and at the villages in their jurisdiction. Various activities were organized by KVKs during the programme viz., Poshan jagruti shibir, training on nutrition garden management, nutri thali competition, In-service training for Anganwadi workers, method demonstration, prize distribution, distribution of nutri-kitchen garden kit, seeds and seedlings etc. Total 1762 farm women participated in the programmes at different places.



Dr. C. K. Timbadia, DEE, NAU, Navsari addressing the participants during the programme



Celebration of “Nutritional and food security campaign” at KVK, Waghai

Celebration of *Poshan Vatika Mahaabhiyan* and Plantation Day

Krishi Vigyan Kendra, Navsari celebrated one day program on *poshan Vatika Mahaabhiyan* and Plantation Day on the occasion of birth anniversary of Hon'ble Pradhanmantri Shri Narendra Modi Sir on September 17, 2021. The Live program was inaugurated by Shri. Narendra Singh Tomar, Hon'ble Union Minister of A & FW on “International Year of Millets 2023”. Total 739 Farmers & farmwomen participants benefited.



Celebration of “Poshan vatika mahaabhiyaan and plantation programme” at Waghai



Plants distribution to farmers at KVK, Tapi

Swachhta Hi Sewa 2021



Rally organized in the village during the *Swachchhata* programme



Participants taking *Swachchhata* oath during the programme

The KVKs running under NAU organized various activities under *Swachhta Hi Sewa* 2021 (SHS) campaign during October 1 to 31, 2021 as a part of 150th birth anniversary celebration of Mahatma Gandhi. Various activities were organized by KVKs during the programme viz., village Cleanliness and sanitation, Swachhata rally, Campaign, Mahila Goshthi, Composting of kitchen and home waste materials, Awareness about green demo & Hand wash, Market & Public Place cleaning, and taking *Swachhata etc.* Total 1741 farmers and farm women participated in the programmes at different places.

Celebration of Mahila Kisan Divas and Women in Agriculture Day

The KVKs running under NAU celebrated Mahila Kisan Divas and Women in Agriculture Day on October 15, 2021 and December 4, 2021. Various activities were organized by KVKs during the programme viz., Lecture, competitions, group discussion, inputs distribution and Prize distribution etc. Total 261 farm women participated in the programmes at different places.



Dignitary addressing the participants during Mahila Kisan Divas



Scientist from KVK Dang delivering lecture to the participants

"World Soil Day" Celebration

Government of India celebrates the "World Soil Day" on December 5, every year, KVKs operated under the NAU celebrated the "World Soil Day" on December 5, 2021. Lectures of dignitaries and Scientists and farm visits were organized during the celebration. During the programme 219 farmers and farm women participated at different places.



Member Board of Management delivering lecture to the participants at KVK Navsari



Scientist from KVK Dang delivering lecture to the participants

Swachhta Pakhawada-2021 celebration

The KVKs running under NAU organized various activities under *Swachhta Pakhawada* during December 16-31, 2021. Various activities were organized by KVKs during the programme viz., Adopted village Cleanliness and sanitation, Swachhata (Sanitation) rally, Awareness programme, Campaign, *Mahila Shibir*, Training on kitchen garden, Green waste management, cleaning of KVK premises, farm and taking Swachhata saphath during celebration. Total 9039 farmers and farm women participated in the programmes at different places.



Cleaning of KVK farm under celebration of *Swachhta Pakhawada*



Scientist from delivering lecture to the participants during celebration of *Swachhta Pakhawada*

Celebration of *Kisan Day*

The KVKs running under NAU celebrated *Kisan Day* on December 23, 2021. Various activities were organized by KVKs during the programme viz., Lecture on *Kisan day*, Farm Visit and Group Discussion, *Kisan gosthi* and information about Pradhanmatri Kishan Nidhi etc. Total 275 farmers and farm women participated in the programmes at different places.



Scientist addressing the participants regarding importance of farmers for Indian economy and overall growth



Celebration of *World Pulse Day*

All KVKs Celebrated of *World Pulses Day* under Azadi Ka Amrit Mahotsav on February 10, 2022 with theme of "Atmanirbhar Bharat- Harnessing potential pulses for import substitution". Total 830 farmers and farm women participated in the programmes.



Dr. Z. P. Patel, Hon'ble Vice Chancellor, NAU, Navsari addressing the participants



Scientist delivering lecture to the participants at KVK Vyara, Dist: Tapi

Celebration of International Women's Day' 2022

International Women's Day (IWD) being celebrated all over the world on March 8. KVKs working under NAU, Navsari also celebrated the IWD 2022 on March 8, 2022 in the presence of dignitaries. The theme of the programme was empowering the women farmers. Speech of dignitaries, Lecture of experts and different activities viz., Importance of Women in Agriculture, Cultural Events organized to encourage farm women, Awareness cum training, Farm Visit and Group Discussion, Mahila Shibir, World Women's Day, Khedut Mahila Shibir etc. were organized. More than 547 farm women were actively participated in the programme at different places.



Dr. Z.P. Patel, Hon'ble Vice Chancellor, NAU, Navsari addressing the participants during the programme



Celebration of International women's day at KVK, Waghai

Celebration of World Water Day

KVKs working under NAU, Navsari celebrated the "World Water Day" on March 22, 2022 in the auspicious presence of dignitaries. The main theme of program was "Valuing the water". Scientists delivered lectures on importance of water for better productivity of crops, irrigation technology, watershed management for sustainable livelihood and agriculture *etc.* Oath was taken by the participants for saving of water. Total 194 participants including farmers, farm women and extension officers remained present at different places.



Scientist delivering lecture to the participants during the programme at KVK Narmada and Dang

Farmer FIRST Programme

Farmer FIRST project (FFP) entitled 'Ensuring Livelihood Security for Small and Marginal Farmers of South Gujarat' is being implemented in Pathri, Hansapore and Chijgam villages of **Navsari district** with six modules under the Directorate of Extension Education since 2016-2017. Different activities were organized during the period viz., Trainings and distribution of critical inputs to the participating farmers under the project.

Key Outcomes of Farmer FIRST Programme 2016-2020

ICAR-National Academy of Agricultural Research Management, Hyderabad and Division of Extension Education, ICAR, New Delhi conducted collaborative assessment of "Key Outcomes of Farmer FIRST Programme 2016-2020". In a published report, the performance of FFP, NAU, Navsari was recognized at National Level among 52 FFP Center. The major Outcomes of the programme by FFP interventions has contributed in doubling of farmer's income through improvement in yield, increase cropping intensity, change in improved inputs use and increase in the income sustainability. Hon. Vice Chancellor Dr. Z. P. Patel recognized the performance and congratulated FFP Nodal and DEE Dr. C. K. Timabadia, Principal Investigator, Dr. Alpesh Leua former DEE Dr. G. R. Patel and Co-PI's of different modules Dr. Hitesh Viradia, Dr. J. M. Patel, Dr. N. V. Patel, Dr. L. K. Arvadia and Dr. Rajesh Bhuvra with a team from DEE office.



Report handed over to Dr. Z. P. Patel, Hon. Vice Chancellor, NAU, Navsari

Training on "Value addition of Sapota"

Organized training on "Value addition of Sapota" under dated 11/02/2022 at Centre of Excellence on Post harvest technology, N.A.U., Navsari in the presence of PI and Co-PI of Farmer FIRST Programme. Dr. Jilen Mayani practically demonstrated detailed process of making Chiku butter dip and Chikujam. A total 30 women farmers from Chijgam, Pathari and Hansapore village had participated in the programme.



Training on "Value addition of Sapota"

Implementation of "Mera Goan Mera Gaurav" programme

"Mera Goan Mera Gaurav" programme launched by the Hon'ble Prime Minister on July 25, 2015 at Patna, Bihar has been implemented by NAU. Total 41 teams of NAU Scientists were formed. Each team comprised of 4 Scientists for 5 villages. Total 164 Scientists were assigned the work in 205 villages selected under the programme.

Activities organised by Navsari Agricultural University, Navsari under MGMG

S. N.	Name of activity	No. of activities conducted	No. of farmers participated & benefitted
1.	Visit to village by teams	52	361
2.	Interface meeting/ <i>Goshthies</i>	25	932
3.	Training organized	10	342
4.	Demonstrations conducted	19	123
5.	Mobile based advisories (No.)	632	632
6.	Literature support provided	42	1003
7.	Awareness created	14	489
8.	Input support provided (q)	-	-
9.	Linkages developed with other agencies (No. of agency)	26	791
10.	Facilitation for new varieties, seeds, technology		
	i. Boi- fertilizer	32	38
	ii. Technology (No.)	12	432
	iii. Seeds (q)	8	30
	iv. New crops (No.)	-	-
	Total	875	5173



ICM in Groundnut (GG-20)



Field day on Rice

MEGA EVENTS

Natural Farming (NF) Training workshop

Navsari Agricultural University, Navsari, Atma Project, Gujarat State and Natural Farming Coordinating Committee jointly organized Natural Farming Training Workshop during 25 to 27/12/2021 (three days) at Samarpan Ashram, At. Dandi, Dist. Navsari. Inauguration Ceremony of Training Workshop was held in the persuasive presence of Shri Acharya Devvratji, Hon'ble. Governor, Gujarat on 25/12/2021. During the inauguration ceremony, Shri Mukeshbhai Patel, Hon. Minister of Agriculture, State Level, Gujarat, Dr. S.R. Chaudhary, Hon. Director of Research, NAU, Navsari, Shri Bhikhubhai Ahir, President, District Panchayat, Navsari, Mahatma Shri Prafuldada Senjaliya, State Coordinator, Prakritik Krishi, State of Gujarat, Shri Kaivalya Swaroop Swamiji, Sant Shri, Nilkanth Dham, Dr. C.K. Timbadia, Director of Extension Education, NAU, organizations, other dignitaries as well as progressive farmers were remain present.

Hon'ble. Governor Shri guided the farmers with inspiring speech with quoting his experiences about natural farming. Hon'ble. Governor Shri felicitated the farmers engaged in natural farming as well as the Karmayogis of Atma Project and KVK, Navsari involved in the promotion and dissemination of Natural Farming, during the program. During the training workshop, Shri Kaivalya Swaroop Swamiji, Sant Shri, Nilkanth Dham, Poicha provided interesting guidance on natural farming for three consecutive days. The farmers engaged in natural farming also shared their experiences. More than 3100 participants including farmers and farm women engaged in natural farming, master trainers/farmer friends, ATMA project staff and KVK staff from seven districts of South and Central Gujarat, Navsari, Surat, Valsad, Tapi, Dang, Bharuch and Vaghodia districts.



Inauguration of Natural farming programme by Shree Acharya Devvratji, Hon'ble Governor, Gujarat



Filicitation of progressive farmers by Shree Acharya Devvratji, Hon'ble Governor, Gujarat



3rd day of Natural Farming workshop/Training

AWARDS RECEIVED:

Farmer Award

Nari Shakti Puraskar

Smt. Vasava Ushaben Dineshbhai, Village: Panchpipri, Ta: Sagbara, Dist: Narmada awarded as “Nari Shakti Puraskar-2020” for organic farming and social worker, the prestigious award was presented by Shree. Ramnath Kovid, Hon'ble President of India, on March 8, 2022 at New Delhi.



Hon. President of India, presenting award to Smt. Vasava Ushaben Dineshbhai at New Delhi



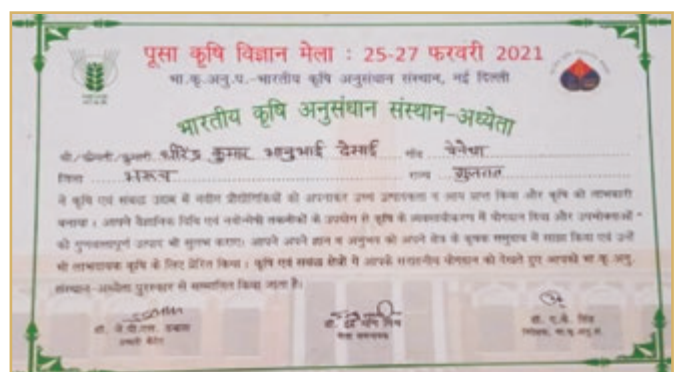
Group photo of Smt. Vasava Ushaben Dineshbhai with Hon'ble Prime Minister Shri. Narendra Modi

IARI Fellow Award

Sh. Dhirendrakumar Bhanubhai Desai, At. Panetha, Ta. Jhaghadiya, Dist. Bharuch recieved IARI Fellow Award 2021 sponsored by IARI, New Delhi during Pusa Krishi Vigyan Mela, organized at New Delhi 25-27/02/2021.



Sh. Dhirendrakumar Bhanubhai Desai receiving the award



Award certificate

Jagjivan Ram Abhinav Kisan Puruskar

Sh. Dhirendrakumar Bhanubhai Desai, At. Panetha, Ta. Jhaghadiya, Dist. Bharuch received *Jagjivan Ram Abhinav Kisan Puruskar/ Jagjivan Ram Innovative Farmer Award (National) 2020* with cash Rs. 1,00,000/-, Certificate and Citation sponsored by ICAR, New Delhi on 16/07/2021 (Online).



Sh. Dhirendrakumar Bhanubhai Desai

Pandit Deendayal Upadhyay Antyodaya Krishi Puraskar

Mr Arunbhai J. Patel Village: Karadi, Dist: Navsari received *Pandit Deendayal Upadhyay Antyodaya Krishi Puraskar 2020*: Certificate and Citation for IFS Model under Small and Marginal farmer Categories by Indian Council of Agricultural Research, New Delhi during July 16, 2021.



Best Innovative Farmer Award

The progressive farmers of *Krishi Vigyan Kendra, Surat* Mrs. Jambaben Maganbhai Nakum and Mr. Shaileshbhai Sailor awarded with “Best Innovative Farmer Award” by Society of Extension Education of Gujarat on June 24, 2022 for the year 2019-20 and 2020-21, respectively.



Yong scientist award

H. A. Prajapati, Scientist at KVK, NAU, Waghai, Dist: Dangs received "Yong scientist award" award given/sponsored by Astha foundation for Fruit science on July 2021.

Best Presentation Award

The *Krishi Vigyan Kendra, NAU, Navsari* received “Best Presentation Award -2020” For Presentation of APR-2020-21 in Online Annual Zonal workshop of KVKs (Maharashtra, Gujarat & Goa) organized by ICAR-ATARI, Pune held during August 4-6, 2021.

Innovative Article Award

Prof. Bhakti B. Panchal, Scientist (Horticulture), *Krishi Vigyan Kendra, Surat* awarded with innovative article award by Agriculture and Food e-Newsletter in the year 2021.

Prof. Soni.A.N, KVK, NAU, Vyara, Dist: Tapi received "Best Article" award For Article “*Tamari Rogpratikarak Shkti Vadhari Corona Same Raxan Melvo*.” Krushigovidhya, April, 2021 by AAU, Anand.



PUBLICATIONS

Farm publications

Directorate of Extension periodically publishes folders, leaflets and booklets on package of cultivation practices of main crops, diversified crops, newly released technology etc. of the area to make available to the farmers and extension workers as ready reference at very low cost or no cost.

Other publications-news letter/reports

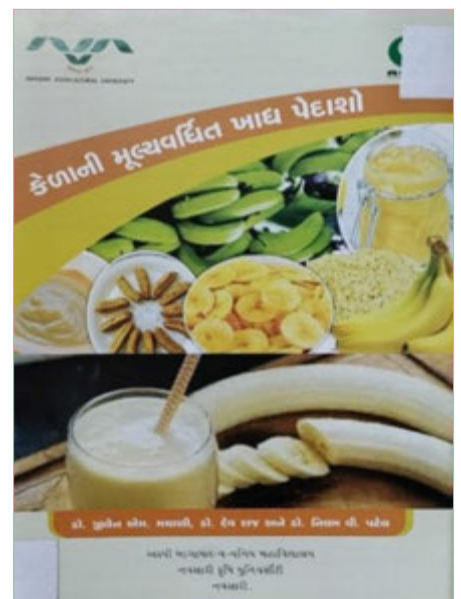
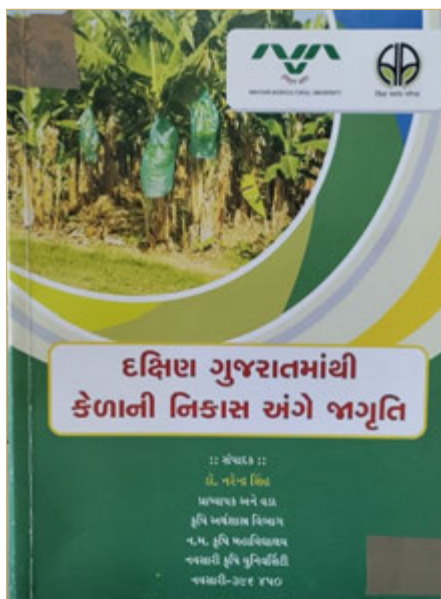
- Research Accomplishments and Recommendations (Gujarati)
- Souvenirs
- Booklets on new emerging issues/technology

University publication:

1) Book/booklets	:	21	4) Annual report	:	1
2) Folders	:	101	5) Crop calendar	:	3
3) Training manual	:	7	6) Magazine	:	1



Books



Booklet/Folders

Research Papers

1. D. B. Bhinsara, P. D. Verma, J. J. Pastagia and Hitesh Parmar (2021). Study on Knowledge of Owners of Milch Animals about Animal Breeding in Tribal Area of South Gujarat, *Int.J.Curr.Microbiol.App.Sci.*, Vol.10, Issue-03.
2. M. V. Tiwari, V. K. Poshia and P. D. Verma (2021). Performance of Twin Wheel Hoe in Narmada District, *International Journal of Scientific Engineering and Applied Science*, Vol.7, Issue-7.
3. Nitin N. Gudadhe, Vijay Poshia, Y. A. Garde, P. D. Verma, C. K. Timbadia and V. P. Usadaida (2021). Potential of zinc seed treatment in improving yield and grain bio fortification of maize: A success story, *Agri journal world*, Vol.1, Issue-2, pp.6-11.
4. M.V. Tiwari, V.K Poshia, N.V Chaudhary and P.D Verma (2022). Assess the incidences of water, sanitation and hygiene among tribal women in Narmada district, *The Pharma Innovation Journal*. Vol. 11(4): 183-185.
5. V. K. Poshia, M. V. Tiwari and P. D. Verma (2021). Constraints faced by recommended pigeon pea cultivation practices in Narmada district, *International Journal of recent Scientific research*, Vol.13, Issue-3, pp-292-293.
6. V. K Poshia, Maheshwaran, M and R. D. Pandya (2022). Adoption level of mitigating strategies by progressive farmers of climate change in south Gujarat. *The Pharma Innovation Journal*. Vol. 11(7): 3376-3378.
7. J. B. Dobariya, S. A. Aklade and C. K. Timbadiya, 2021. Competence of educated youth for agricultural enterprises of Gujarat state. *Journal of plant development science*, 13(8):627-631.
8. R. A. Gurjar, S. L. Chawla, D. P. Patel, R. D. Pawar and T. R. Ahir (2021). Interaction Effect of Land Configuration and Nutrient Management on Growth, Quality and Yield of Chrysanthemum (*Dendrathera grandiflora* Tzvelev) var. *International Journal of Current Microbiology And Applied Sciences*. Volume 10 Number 01 :1429-1435, ISSN: 2319-7706
9. T. R. Ahir, S. L. Chawla, S. T. Bhatt, Dipal S. Bhatt, G. D. Patel and R. A. Gurjar (2021). Response of various Planting Dates and Varieties on Performance of China Aster under South Gujarat. *International Journal of Current Microbiology and Applied Sciences*. Volume 10 Number 02 2025-2033
10. R.D. Pawar, S.L. Chawla, S.J. Patil, Sudha Patil and R.A. Gurjar (2021). Physiological studies in chrysanthemum genotypes 22. *Journal of Ornamental Horticulture*. 24(1) 22-27
11. Prabhu Nayaka, K.A. Shah and A.N. Lad and C.K. Timbadiya (2022). Influence of potassium silicate on paddy (*Oryza sativa* L) stem borer, Sheath mite, lodging and yield attributes. *Frontiers in crop improvement Journal*, Vol 10.
12. A.N. Lad, K.G. Patel, R.A. Gurjar, P.H. Nayaka and K.A. Shah (2022). Performance of different levels of NADEP manure Nutrients content and quality of different organically grown crops. *Journal of Krishi Vigyan* Vol. 11(1).
13. A.N. Lad, K.G. Patel, A.M. Patel and Prabhu Nayaka and Z. N. Zala (2022). Survey and Prospects of yield stability of organic produce in Nvsari District. *The Pharma Innovation Journal* SP-11(9):177-179. ISSN (P): 2349-8242, ISSN (E): 2277-7695
14. K.A. Shah, Prabhu Nayaka and A.N. Lad (2022). Effect of foliar spray of potassium silicate on growth and yield of paddy (*Oryza sativa*). *Annals of Plant and Soil Research* 24 (3): 476-480.
15. Patel, B. K., Sandipan, P. B., Chawada, S. K. and Patel R. K. (2021). Evaluation of various combi product fungicides for the control of wilt (FOV) disease of cotton under in vitro condition of south Gujarat (India). *Int. J. Chem. Stud.*, 9(1): 2992-2995.
16. Patel, B. K., Sandipan, P. B., Patel R. K. and Chawada, S. K. (2021). Screening of different fungicides and biocontrol agents against *Fusarium oxysporum* f. sp. *vasinfectum* (FOV) under pot condition. *Int. J. Chem. Stud.*, 9(1): 1005-1007.
17. Patel, B. K., Sandipan, P. B., Chawada, S. K. and Patel R. K. (2021). Evaluation of different biocontrol agents against *Fusarium oxysporum* f. sp. *vasinfectum* (FOV) under in vitro condition of South Gujarat. *Int. J. Chem. Stud.*, 9(1): 998-1000.
18. Patel, B. K., Sandipan, P. B., Patel R. K. and Chawada, S. K. (2021). Wilt: An important fungal disease of cotton under South Gujarat region of India. *Int. J. Chem. Stud.*, 9(1): 269-271.

19. J. K. Bana, P.D. Ghoghari, G.B. Kalariya, S.P. Saxena, Hemant Sharma, Pushpendra Singh & S.J. Patel (2021) Survey and surveillance in mango ecosystem. *Pest Management in Horticultural Ecosystems* 27 (1): 11-15.
20. Shivkumara, N. R.; Ahlawat, T. R.; Pandey, A. K.; Patel, Dharmishtha; Jena Suchismita and Chaudhary, A. D. (2021). Comparative morphology, Phenology and Productive potential of different plant types in papaya cv. Red Lady Taiwan. *Int. J. Curr.Micribial. App. Sci.*, 10(03): 2050-2059.
21. A.D. Chaudhary, T. R. Ahlawat, D. R. Bhanderi and Dharmishtha Patel (2020). Effect of de-blossoming treatment on physical characteristics of different Mango varieties during off season fruit production under South Gujarat Conditions. *Current Journal of Applied Science and Technology*. 39 (8):1-6.
22. Patel Dharmishtha Ahlawat, T. R. Pandey, A. K. and Jena, Suchismita (2021). Improved fruit quality in papaya cv. Red lady through foliar sprays of silicon and seaweed extract. *The Pharma Innovation Journal*, 10 (5):1514-1516.

Extension Literature:

1. J. B. Dobariya, P. P. Javiya, S. A. Patel, B. M. Vahuniya, H. A. Prajapati and K. V. Patel: *Paak avsheshnu yogy vyvasthaapan*. NAU, Pub. No. 124/2021-22
2. J. B. Dobariya, H. A. Prajapati, P. P. Javiya, S. A. Patel, S. N. Chaudhri and R. S. Patel: *Gajar ghas nu jaivk padhdhti dvaraa niyantana*. NAU, Pub. No.125/2021-22
3. S. N. Chaudhari, J. B. Dobariya, R. S. Patel, P. P. Javiya, B. M. Vahuniya, S. A. Patel and P. C. Sable: *Gramin krushi mosam sevanu khetima mahtva*. NAU, Pub. No.126/2021-22
4. S. N. Chaudhri, B. M. Vahuniya, J. B. Dobariya, H. A. Prajapati, P. P. Javiya, S. A. Patel and P. C. Sable: *Badalaataa havaamanni jivato pau asar*. NAU, Pub. No.127/2021-22
5. P. P. Javiya, S. N. Chaudhri, B. M. Vahuniya, J. B. Dobariya, H. A. Prajapati and F. C. Mahakal: *Prakrutik khetima poshanchakra ane tema desi alsiyanu mahatv*. NAU, Pub. No.128/2021-22
6. P. P. Javiya, J. B. Dobariya, S. A. Patel, B. M. Vahuniya, F. C. Mahakal and H. A. Prajapati: *Prakrutik khetima achchaadananu mahatv ane fayada*. NAU, Pub. No.129/2021-22
7. S. A. Patel, B. M. Vahuniya, S. N. Chaudhari, K. V. Patel and P. P. Javiya: *Pashuoma sanvrhdhananu mahtva*. NAU, Pub. No.130/2021/22
8. S. A. Patel, R. S. Patel, J. B. Dobariya, B. M. Vahuniya and S. N. Chaudhari: *Jivlen rog hadakva*. NAU, Pub. No.131/2021-22
9. B. M. Vahuniya, R. S. Patel, H. A. Prajapati, S. A. Patel, J. B. Dobariya and K. V. Patel: *Prakrutik khetima rog-jivat niyantran*. NAU, Pub. No.132/2021-22
10. B. M. Vahuniya, R. S. Patel, H. A. Parapati, S. A. Patel, J. B. Dobariya and K. V. Patel: *Karelamaa rog-jivat niyantran*. NAU, Pub. No.133/2021-22
11. F. C. Mahakal, Dr. P. P. Javiya, Dr. S. A. Patel, R. S. Patel, K. V. Patel & B. M. Vahuniya: *Naglinu mhatv ane mulyvardhan banavto*. NAU, Pub. No.137/2021-22
12. H. A. Prapati, F. C. Mahakal, P. P. Javiya, K. V. Patel, R. S. Patel & J. B. Dobariya: *Karelani prakrutik kheti padhdhti*. NAU, Pub. No.135/2021-22
13. H. A. Prajapati, S. A. Patel, F. C. Mahakal, S. N. Chaudhri, P. P. Javiya & B. M. Vahuniya: *Shakbhaajine kheti-prakrutik abhigam thaki*. NAU, Pub. No.136/2021-22
14. H. A. Prajapati, B. M. Vahuniya, S. N. Chaudhari, F. C. Mahakal, R.S. Patel & P. P. Javiya: *Ambani prakruitk kheti*. NAU, Pub. No.137/2021-22
15. H. A. Prajapati, Dr. S. A. Patel, F. C. Mahakal, S. N. Chaudhari, K. V. Patel & R.S. Patel: *Stroberry ni vaigyanik kheti padhdhti*. NAU, Pub. No.138/2021-22
16. K. V. Patel, Dr. J. B. Dobariya, R.S. Patel, H. A. Prajapati, S. A. Patel & B. M. Vahuniya: *Poshaktatvonee khamee olakhavaanee chavio*. NAU, Pub. No.139/2021-22
17. K. V. Patel, Dr. P. P. Javiya, H. A. Prajapati, R. S. Patel, B. M. Vahuniya & S. N. Chaudhri: *Chanani vaigyanik kheti padhdhti ane teni sudhareli jato*. NAU, Pub. No.140/2021-22
18. R. S. Patel, K. V. Patel, B. M. Vahuniya, J. B. Dobariya & H. A. Prajapati: *Dragon fruit (kamalam falni) vaiguanik kheti*. NAU, Pub. No.141/2021-22

19. R.S. Patel, H. A. Prajapati, K. V. Patel, F. C. Mahakal, S. A. Patel and J. B. Dobariya: *Achchhaadan dvaaraa khetima nindan niyantran*. NAU, Pub.No.142/2021-22.
20. K. A. Shah, Nitalben Patel, A. N. Lad and C. K. Timbadiya, Vermicompost and Vermivash, NAU, Pub.No. 120/2021-22
21. R. A. Gurjar, K. A. Shah, Prabhu Nayaka and C. K. Timbadiya, *Aamba ni viagnanik kheti* 2021.
22. K. A. Shah, Prabhu Nayaka, A. N. Lad and C. K. Timbadiya, *Tuver ni viagnanik kheti* 2021.
23. K. A. Shah, Nitalben Patel, P Rathava and C. K. Timbadiya, Vermicompost and Vermivash. 2022
24. K. A. Shah, Prabhu Nayaka, R.A. Gurjar and C. K. Timbadiya, *Dangar ni Vaiganik Kheti Paddhati*. NAU, Pub.No. 116/2021-22
25. K. A. Shah, Sumit Salunkhe, A. N. Lad and C. K. Timbadiya, *Aavran ane Tena Fayada*. NAU, Pub.No. 119/2021-22
26. K. A. Shah, Prabhu Nayaka, A. N. Lad, C. K. Timbadiya, *Tapak Piyat paddhati- Padhdhati ek Fyada Anek*. NAU, Pub.No. 118/2021-22
27. Prabhu Nayaka, K. A. Shah, Sumit Salunkhe and C. K. Timbadiya, *Prakrutik Kheti*. 2022
28. R. A. Gurjar, K. A. Shah, Prabhu Nayaka, N. N. Patel, Sumit Salunkhe and C. K. Timbadiya. *Ghar Angne Shakhaji (Kitchen garden) Koli-patel mitra*, pp:- 19-23. 2021.
29. R. A. Gurjar, S. N. Sarvaiya, K. A. Shah, Prabhu Nayaka, Sumit Salunkhe and C. K. Timbadiya. *Limbu, Dadam ane Jamfalma Baharno upayog etle utapadan ane bajarbhav bannema moto fayado*. April, 19 (3): 12. 2022.
30. Butani, J. B., Dhodia, A. J. and Pandya, C.D. *Dudhala Pashuo mate aahar ane Ghaschara Vyavsthan*, Pub.No.97/2021-22.
31. Dhodia, A. J., and Pandya, C.D. (2021). *Krushivigyan Kendra*, Pub.No.98/2021
32. Patel, D.M., Soni, A.N., Dhodia, A.J. and Pandya, C.D. (2021). *Velavala sakbhajini ni vignanik kheti*, Pub.No.99/2011-22.
33. Patel, D.M., Rana, K.N., Butani, J.B. and Pandya, C.D. (2021). *Papadini vignanik kheti Padhdhati*, Pub.No.100/2021-22.
34. Patel, D.M., Chawda, S. K., Makani, N.N. and Pandya, C.D. (2021). *Gaay aadharit kheti ma vaprata khataro banavavani Padhdhati* Pub.No.101/2021-22.
35. Patel, D.M., Butani, J.B., Dhodia, A. J. and Pandya, C.D. (2021). *Alashiya khataro banavavani padhdhati*. Pub.No.102/2021-22.
36. Soni, A. N., Dhodia, A.J. and Pandya, C.D. (2021). *Manav Tadursati mate Na ghargthtu upayo*. Pub.No.103/2021-22.
37. Soni, A. N., Butani, J.B. and Pandya, C.D. (2021). *Tamari Rogpratikarak Shakti vadhari corona same raxan melavo*. Pub.No.104/2021-22.
38. Soni, A.N., Patel, D.M. and Pandya, C.D. (2021). *Kelana Poshan ane oushadhiya gun jano*. Pub.No.105/2021-22.
39. Chawda, S.K., Rana, K.N., Makani, N.N. and Pandya, C.D. (2021). *Jaivik khetima mahatv ane teno upyog*. Pub.No.105/2021-22.
40. Kalariya G. B. (2021) *Expert Lecture Notes, Pre- Seasonal, kharif rutu Workshop under Training and Visit Scheme, Date 17-18/06/2021, Uni. Publication No. 03/2021-22*
41. Kalariya G. B. (2021) *Expert Lecture Notes, Rabi rutu Pre- Seasonal, Workshop under Training and Visit Scheme, Date 23-24/11/2021, Uni. Publication No. 23/2021-22*
42. Kalariya G. B. (2021) *Kedutopyogi sanshodhan bhalaman-2021*, Publication: Directorate of Extension Education, Navsari Agricultural University, Navsari, Uni. Publication No. 65/ 2021-22 and placed on NAU website.
43. Kalariya G. B. and L. V. Ghetia (2021) *Sheradini jivatonu jaivik Niyantaran, Souvenir, 'Jivato ane rogona jaivik niyantran dvara bagayat ane khadhiya pakoni gunvatta ane salamatinini janavani'* NAHEP- CAAST & PPAG state Level Seminar organized by Navsari Agricultural University, Navsari, December 30, 2021, Uni. Publication No. 91 pp.77-80, 2021-22.

Book/Booklet

૧. કાલરીયા જી.બી. (૨૦૨૧) ખેડૂતોપયોગી સંશોધન ભલામણોલ-૨૦૨૦ પ્રકાશક: વિસ્તરણ શિક્ષાણ નિયામકશ્રી, નવસારી કૃષિ યુનિવર્સિટી, નવસારી, પ્રકાશન નં. ૪૫/૨૦૨૦-૨૧ અને વેબસાઈડ પર મુકેલ છે.
૨. કાલરીયા જી.બી. (૨૦૨૧) ખરીફ ઋતુ પૂર્વેની તાલીમ, તાલીમ અને મુલાકાત યોજના અંતર્ગત નિષ્ણાંત વ્યાખ્યાન નોંધ તા. ૧૭-૧૮/૦૬/૨૦૨૧, પ્રકાશન નં. ૦૩/૨૦૨૧-૨૨.
૩. કાલરીયા જી.બી. (૨૦૨૧) રવીઋતુ પૂર્વેની કાર્યશાળા, તાલીમ અને મુલાકાત યોજના અંતર્ગત નિષ્ણાંત વ્યાખ્યાન નોંધ તા. ૨૩-૨૪/૧૧/૨૦૨૧, પ્રકાશન નં. ૦૩૩/૨૦૨૧-૨૨.
૪. કાલરીયા જી.બી. (૨૦૨૧) ખેડૂતોપયોગી સંશોધન ભલામણોલ-૨૦૨૧ પ્રકાશક: વિસ્તરણ શિક્ષાણ નિયામકશ્રી, નવસારી કૃષિ યુનિવર્સિટી, નવસારી, પ્રકાશન નં. ૬૫/૨૦૨૧-૨૨ અને વેબસાઈડ પર મુકેલ છે.
૫. કાલરીયા જી.બી. અને એલ. વી. ઘેટીયા (૨૦૨૧) શેરડીમાં જીવાતોનું જૈવિક નિત્રણ, સોવેનિયર: 'જીવાતો અને રોગોના જૈવિક નિયંત્રણ દ્વારા બાગાયતી અને ખાધ પાકોની ગુણવત્તા અને સલામતીની જાણવણી "NAHEP-CAAST & PPAG" નવસારી દ્વારા આયોજિત રાજ્ય કક્ષાનો પરીસંવાદલ, ડિસેમ્બર ૩૦, ૨૦૨૧, યુનિ. પ્રકાશન નં. ૮૧/૨૦૨૧-૨૨. પા.નં. ૭૭-૮૦.

Popular article

1. P. P. Javiya, B. M. Vahuniya and S. A. Patel: *Dudh jany rogo ane tene atkavava matena soneri suchno*. Published in Krushi govidhya, May 1, 2021.
2. S. A. Patel and H. A. Prajapati: *Chomasani rutuma pashuoni yogy sarsambhal*. Published in Godarshan guid, August 2021.
3. H. A. Prajapati, P. P. Javiya, S. A. Patrl and G. G. Chauhan: *Anek lokone rojgari apto madhmakhi palan udhyog*. Published in Krishi prabhat, 10th Oct 2021.
4. H. A. Prajapati, P. P. Javiya, S. A. Patrl and G. G. Chauhan: *Madhmakhi na jivan chakra ne olkho*. Published in Krishi prabhat, 30th Oct 2021.
5. H. A. Prajapati, S. A. Patel, B. M. Vahuniya and Gr. G. G. Chauhan *Fansini Vaigyanik Kheti*. Published in Krishi jivan, October 2021.
6. B. M. Vahuniya : *Fugthi thata rog bhuki chharane dur karvana upayo*. Published in Krushi Prabhat, 18th Nov 2021.
7. B. M. Vahuniya: *Kheti pakoma cercospora jatini fugthi panna tapkana rogne olkho*. Published in Krushi Prabhay, 19th Nov 2021.
8. B. M. Vahuniya: *Jaivik rog niyantrak: Trichoderma ne olkho*. Published in Krushi Prabhat, 24th Nov 2021.
9. B. M. Vahuniya: *Trichodermana vaprash vakhate niche mujab na pagala dhayane rakhva*. Published in Krushi Prabhat, 25th Nov 2021.
10. H. A. Prajapati: *Madhapetima madhmakhi palan kai rite karvo*. Published in Krushi Prabhat, 1st Nov 2021.
11. B. M. Vahuniya: *Chana na rogonu jaivik niyantran*. Published in Souvenir of seminar organized title "Maintenance of quality and safety of horticultural and food crops through biological control of pests and diseases". 30th Dec 2021.
12. H. A. Prajapati: *Tarbuchmaa paankoriyanu sankalit niyantran*. Published in Krushi Prabhat, 29th Mar 2022.
13. Dr. J. B. Dobariya, Dr. G. G. Chauhan & Kasyap Patel: *Khetima Mobilelno Upyog ane Krushi Sambhadhit Apps*. Published in Krushi Govidya, March 2022.
14. H.R, Jadav, V.K. Poshia, V.R. Jinjala and P. D. Verma, *Suryamukhini vegyanik kheti padhatti*. Published in krushijivan, January 2022.
15. M. V. Tiwari, J. H. Gohil and P. D. Verma, *Bajarake aushadhiygun*. Published in Krishi jivan, January 2021.
16. Prabhu Nayaka, K. A. Shah, R. A. Gurjar and C. K. Timbadiya. 2021. *Dagar ma aavati jivat ni olakha ane tenu sankalit niyantran vyavasthapan*. Krushikarm, September, 10 (41): 12-17.

17. K. A. Shah, Sumit Salunkhe, R. A. Gurjar and C. K. Timbadiya. 2021. Gajargas: Eka jatil Nidan ane tenu niyantran. Krushikarm, September, 10 (41): 22-23.
18. R. A. Gurjar, K. A. Shah, Prabhu Nayaka, N. N. Patel, Sumit Salunkhe and C. K. Timbadiya. 2021. *Ghar Angne Shakhbaji* (Kitchen garden) *Koli-patel mitra*, pp:- 19-23.
19. K. A. Shah, R. A. Gurjar, Sumit Salunkhe and C. K. Timbadiya. 2022. *Vadhu Uttapadadn Aapti Unalu Mangni Navi Aasaspad* Jat Gujarat Mung-6 and Mung-7. Krushijivan, January, pp: 08-10.
20. K. A. Shah, Prabhu Nayaka, A. N. Lad and C. K. Timbadiya. 2022 *Unalu Kathol pako ni Kehti. Koli-patel mitra*, (2):- 20-23.
21. K. A. Shah, R. A. Gurjar, A. N. Lad and C. K. Timbadiya. 2022. Identify the salt affected soil and adopt the remedy measure for it. Krushikarma, March, 11 (43): 10-13.
22. K. A. Shah, R. A. Gurjar, A. N. Lad and C. K. Timbadiya. 2022. *Rasayanik Khatro ni karyashamata vadahrava na upayo*. Krushikarma, March, 11 (43): 14-19.
23. R. A. Gurjar, S. N. Sarvaiya, K. A. Shah, Prabhu Nayaka, Dr. Sumit Salunkhe and C. K. Timbadiya. 2022. *Limbu, Dadam ane Jamfalma Baharno upayuog etle utapadan ane bajarbhav bannema moto fayado*. Koli Patel Mitra, April, 19 (3): 12-15.
24. Patel, R. K., Patel, C. J., Gajjar, S. N. and Chauhan, H. R. (2021). *Chana nee jivato nu jaivikniyantran*. Published in state level seminar on Maintenance of the quality and safety of horticultural and food crops through biological control of pests and diseases at Navsari Agricultural University, Navsari on December 30, 2021, pp.112.
25. Patel, R. K. (2022). Mite pests of vegetable crops and their management. Chapter published in training manual of ICAR sponsored short course cum training on Pest risk assessment and eco-friendly management of mite pests in agriculture organized by NAU, Navsari during January 20-29, 2022, pp.141-152.
26. Panchal, B. B. and Trivedi, S. J. (2021). Physiological basis of growth, yield and quality of vegetable influenced by chemicals or PGRs. *Agriculture & food e-newsletter*, 3 (1): 123-126.
27. Panchal, B. B. (2021). Vegetable production using zero land for food and nutrition, *Agriculture & food e-newsletter*, 3 (6): 250-251.
28. M. V. Tiwari, V. K. Poshia and P. D. Verma (2021). Medicinal Plants: Improve Our Immunity, *Just Agriculture Multidisciplinary e-Newsletter*, Vol.2, Issue-2.
29. Chauhan, S. M. and Pandya, C. D. (2021). Successful Entrepreneur in Mushroom Cultivation. *AGRIBLOSSOM*. Jun 2021(11).pg.13-16.
30. Chauhan, S. M. and Pandya, C. D. (2021). Mr. Rohingtonbhai K. Jokhi-Successful quality seed producer of Chickpea. *AGRIBLOSSOM*. Jun 2021 (11).pg.30-35.
31. Butani, J. B., Dhodia, A. J. and Pandya, C. D. (2021). Smt. Jasuben C. Chaudhari: Successful farmer by adopting IFS model. *AGRIBLOSSOM*. August 2021 (12). pg. 50-57.
32. Kalariya G. B. (2021) Notes on '*Sheradima avti jivato*' submitted to department of Extension for developing specialized system of sugarcane cropping.
33. Kalariya G. B. (2021) Note on '*sheradini Jivatonu sankalit Vyavsthapan*' book on *sheradini adhunik kheti paddhati*', Uni. Publication No. 70 pg. no. 69-79, 2021-22.
34. Kalariya G. B. (2022) Notes on '*sheradini Jivatonu sankalit Vyavsthapan ane sheradini adhunik kheti paddhati*' Commercial Crop Sugarcane State Level Training Manual publish under National Food Security Mission (NFSM) by JDA, Surat and DAO, Navsari pp. 77-88.
35. કાલરીયા જી.બી. (૨૦૨૧) શેરડીપાકની નિષ્ણાંત પ્રણાલી વિકસાવવા માટે 'શેરડીમાં આવતી જવાતો' ની નોંધ વિસ્તરણ વિભાગને આપેલ છે.
36. કાલરીયા જી.બી. (૨૦૨૧) શેરડીની જવાતોનું સંકલિત વ્યવસ્થાપનલ 'શેરડીની આધુનિક ખેતી પધ્ધતિ', પ્રકાશન નં. ૭૦/૨૦૨૧-૨૨. પના નં ૬૯-૭૯.
37. કાલરીયા જીઈબીઈલ આરઈ સીઈ પટેલ અને એચઈસીઈમાલી (૨૦૨૧-૨૨) શેરડીની જવાતોનું સંકલિત વ્યવસ્થાપન પ્રકાશન નંબર : ૭૦/૨૦૨૧-૨૨.

16 | Directorate of Students' Welfare, Navsari

The Directorate of Students' Welfare of Navsari Agricultural University is functioning with the aim to develop skills, talent, personality and high human values of university students. For inculcating these qualities various activities of sports, cultural programme, literary events, training, counseling, placement guidance, NCC, NSS and Yoga, have been organized throughout the year. This office encourages and inspires students of the University to participate in National level competitions and make financial provisions for the same.

Students Representative Council (SRC)

Constituent colleges and polytechnics of Navsari Agricultural University, Navsari, forms the Student's Representative Council (SRC) every academic year. The SRC in adherence to the provisions of its constitution plays role in ensuring the general welfare of all students by serving as the voice of all students by presenting issues necessary for a smooth academic and social environment. Members of the SRCs work together with the University administration. The Principal, being the President of the SRC, nominates the Staff Advisory Committee in consultation with the Chairman of the SRC. The Council is formed with a view to provide the proper platform for overall personality development of the students through training, counseling and guidance in their co-curricular activities and education. The SRC of each college enthusiastically encourage students to participate in various activities like (1) Planning Forum (2) Sports-Games (3) Debate / Elocution / Extempore competitions (4) College Magazine (5) Cultural Programmes (6) NCC, (7) NSS, (8) Yoga related activities, etc. in addition to activities framed by Central and State Ministry of Education as well as Ministry of Sports and Youth Affairs from time to time.

Student Amenities

Hostel Facilities

Being residential requirement of various degree programmes, there is provision of 36 hostels for accommodating boys and girls students separately and 3554 students (2397 boys and 1157 girls) were accommodated in the hostels. Every hostel block is provided with care taker, mess with PNG gas supply and well equipped dining hall, T.V. room, solar water heater, water cooler with mineral water plant, washer man, newspaper and other facilities.

Details of hostels of different faculties situated in the main and sub campuses

Sr. No.	Name of Hostel / Block	No. of Rooms	Accommodation Capacity
N.M. College of Agriculture, NAU, Navsari			
1	Navoday Boy's Hostel	68 (2seated) 3 (3seated)	145
2	Navneet Boy's Hostel	68 (2seated) 3 (3seated)	145
3	Old PG block	54 (single)	54
4	New PG block	58 (2seated)	116
5	Maitry Girls block	32 (4 seated)	128
6	Kasturba PG Girls Hostel	24 (3 seated)	72
7	New PG Girls Hostel	58 (2 seated)	110

ASPEE College of Horticulture & Forestry, NAU, Navsari			
8	Forestry UG Hostel	30 (3seated)	90
9	Vivekanand Boy's Hostel	68 (2 seated)	136
10	Horticulture (Boys) UG Hostel	30 (3seated)	90
11	Sankalp PG Boys Hostel (Horti.&Forestry)	50 (2seated)	100
12	Anasuya UG Girls Hostel	23 (4seated)	92
13	Ahilya PG New Girls hostel	22 (2seated)	44
Polytechnic in Horticulture, Navsari			
14	Nandavan Boy's Hostel	24(3 seated)	72
15	Girls Hostel	12(3 seated)	36
ASPEE Agribusiness Management Institute			
16	AABMI Hostel	44 (2seated)	88
College of Agriculture , Bharuch			
17	Bhrugu Boys Hostel	96 (3 seated)	288
18	Rewa Girls Hostel	36 (3 seated)	108
19	Polytechnic Girls Hostel	12 (5 seated)	60
College of Agriculture,Waghai			
20	Vanraj-A block Vanraj-B block Vanraj-Cblock	36 (3seated)	108
21	Dandakvan Boy's Hostel	54 (6 seated)	324
22	Shabri Girl's Hostel	30 (3 seated)	90
ASPEE Shakilam Agricultural Biotechnological Institute, Surat			
23	Boys Hostel	52 (2 seated)	104
24	Kaushalya Girls Hostel	30 (3 seated)	90
Polytechnic in Agriculture, Vyara			
25	Boy's Hostel	36 (3 seated)	108
26	Savitri Girls Hostel	10 (3 seated)	30
College of Agriculture Engineering & Technology, Dediapada			
27	Vishwakarma Boys Hostel	56 (2 seated)	112
28	Shakuntala Girls Hostel	16 (3seated)	48
Polytechnic in Horticulture, Paria			
29	Parshuram Boy's Hostel	24 (3 seated)	72
30	Saraswati Girl's Hostel	12(3 seated)	36

International Student's Hostel

The International Student's Hostel (ISH) is established by NAU with the financial aid from ICAR to provide accommodation facilities to the eligible international male post graduate students with following objectives:

- To facilitate comfortable residential accommodation
- To provide friendly, comfortable well-furnished and secured accommodation under one roof for students of different countries
- To provide a healthy competitive and diverse cultural learning environment.

Sr. No.	Types of rooms	No. of rooms	Capacity	No. of students registered	Country
1	AC suit room	04 (2 seated)	08	11	Afghanistan
2	AC room	16 (2 seated)	32		

Facilities: RO Systems, Water coolers, TV with Cable connection in each room, Solar Water heater system, Kitchen with dining hall

Hostel Management

For smooth and efficient management of all the hostel blocks and to provide better academic environment to all the students staying as well as to look after their all routine works/activities, there is sufficient supervisory staff consisting of a rector, assistant rectors, store keepers, care takers/attendants. Moreover, Director of students' welfare, Principal and Dean of various faculties, staff of Executive Engineer is also providing necessary help and fund as per the need time to time.

Mess Management

There are self-messes in each hostel block managed by the students themselves and monitored by the concerned assistant rector in supervision and guidance of Head Rector. The management of each self-mess is handled by Mess Committee consisting of four/five student members. The secretary and *Kothari* maintain mess account, store and make necessary purchases through cooperative store or places approved by mess committee.

Hostel Welfare Committee

To look after all the hostel welfare related activities like maintenance, cleaning, drinking water facilities, mess, health, cultural activities, entertainment, various competitions and others, a Hostel Welfare Committee is working which is consisting of (a) Principal-Chairman, (b) Rector- Vice-Chairman, (c) Executive Engineer or his representative, (d) Assistant rector, (e) General Secretary of the Student's Union, (f) One Hostel Student's representative per 50 students nominated by the Rector, and (g) Chairman of the SRC. The committee reviews time to time, at least once in three months, measures to be taken to ensure proper working of the utility services, food management/ accommodation, health and other facilities provided in the hostel.

On-Campus Hostels



Navoday Boy's Hostel



Navnit Boy's Hostel



Navrang PG Boy's Hostel (New PG)



Navrang PG Boy's Hostel (Old PG)



Maitry Girl's Hostel



Kasturba Girl's Hostel



Nandini Girl's Hostel



Bagayat Boy's Hostel



Vivekanand Boy's Hostel



Forestry Boy's Hostel



Sankalp PG Boy's Hostel



Ansuya Girl's Hostel



New PG Girl's Hostel



AABMI PG Boy's Hostel



Nandanvan Boy's Hostel



International Students' Hostel



Girl's Hostel

Off-Campus Hostels:



Bhргу Boy's Hostel, Bharuch



Rewa Girl's Hostel, Bharuch



Dandakvan Boy's Hostel, Waghai



Sabari Girl's Hostel, Waghai



Vanraj Boy's Hostel, Waghai



Boy's Hostel, Surat



Kaushalya Girl's Hostel, Surat



Boy's Hostel, Vyara



Savitri Girl's Hostel, Vyara



Vishvakarma Boy's Hostel, Dediapada



Shakuntla Girl's Hostel, Dediapada



Parshuram Boy's Hostel, Paria



Sarswati Girl's Hostel, Paria

Health Facilities

Primary Health Center, NAU, Navsari provides basic health care medical facilities to the students and staff of the Navsari Agricultural University, Navsari. A service of the Medical officer is available on contract basis along with supported staff for X-Ray Technician and Laboratory Assistant. Free health checkup, X-Ray facility, laboratory testing and medicines are provided to the students and staff (including their family members) of the Navsari Agricultural University. Our



medical laboratory is well equipped with hematological and biochemical (semi-automatic) analyzer and X-Ray machine.

During the period under report, a total of 1524 patients were treated as OPD and laboratory facilities were utilized for confirmatory diagnosis of diseases. A total of 57 hematological, 43 biochemical parameters, 27 serum immunological and 11 urine samples were evaluated to reach at confirmatory diagnosis. Moreover, X-ray examination was also performed in 32 patients. Covid-19 vaccination camp was organized by jointly effort of *Karmchari Kalyan Mandal*, NAU, Navsari, Director of Students Welfare, NAU and District Health Department, Navsari at Primary Health Center, NAU on 22.03.2021.

Financial Assistance to the students

Navsari Agricultural University facilitates financial assistance as a fellowship to the students on a merit basis at the graduate and postgraduate level in all the faculties as under:

A. NAU UG Girls meritorious fellowship

This fellowship is given to five undergraduate girl's students of various faculties based on merit in 12th board or equivalent examination for the period of eight semesters. The details of fresh and renewal fellowship awarded during the year are as follow:

NAU UG Girls meritorious fellowship:			
Faculty	Fresh		Total
	No. of Students		
	Renewal		
	No. of Students		
Agriculture (Navsari)	05	10	15
Agriculture (Waghai)	00	01	01
Agriculture (Bharuch)	00	04	04
Horticulture	05	16	21
Forestry	05	12	17
Agri. Biotechnology	05	11	16
Agril. Eng. Tech.	04	00	04
	Total		78

B. NAU PG fellowship

NAU annually awards one fellowship in each of its faculties separately for both Master as well as Doctorate degree. The details of fresh and renewal fellowship awarded during the year are as follow:

NAU PG fellowship:					
Faculties	Fresh		Renewal		Total
	No. of Students		No. of Students		
	M.Sc.	Ph.D.	M.Sc.	Ph.D.	
Agriculture	02	00	03	00	05
Horticulture	02	00	03	00	05
Forestry	01	00	02	00	03
Veterinary	00	00	02	00	02
A.B.M. & I.C.T.I.	MBA	Ph.D.	MBA	Ph.D.	
	02	00	02	00	04
	Total				19

Physical Education

The university lays a great emphasis on the role of games and sports to keep the students physically efficient, mentally alert, morally sound and socially well behaved. These activities are arranged through various games and sports like Athletics, Basketball, Volleyball, Cricket, Kabbadi, Kho-Kho, Table tennis, Badminton, Chess and Yogic excessive under over all supervision of Director of Students' Welfare. The university provides sufficient games and sports material to all the hostels as well as university/college level team. Due to COVID-19 pandemic situation events were not organized at Navsari Agricultural University, Navsari during the year 2020-21.

Results of NAU Inter Collegiate Indoor Games for the Year 2021-22

SN	Event & Date	Position	College Name
1	Badminton Men 24/12/2021	Winner	ASPEE College of Horticulture and Forestry, Navsari
		Runner Up	N. M. College of Agriculture, Navsari
2	Badminton Women 24/12/2021	Winner	ASPEE College of Horticulture and Forestry, Navsari
		Runner Up	N. M. College of Agriculture, Navsari
3	Table-Tennis Men 06/03/2022	Winner	ASPEE College of Horticulture and Forestry, Navsari
		Runner Up	College of Agriculture, NAU, Bharuch
4	Table-Tennis Women 06/03/2022	Winner	ASPEE College of Horticulture and Forestry, Navsari
		Runner Up	College of Agriculture, NAU, Bharuch
5	Chess Men 15-16/03/2022	Winner	ASPEE College of Horticulture and Forestry, Navsari
		Runner Up	N. M. College of Agriculture, Navsari
6	Chess Women 15-16/03/2022	Winner	College of Agriculture, NAU, Bharuch
		Runner Up	N. M. College of Agriculture, Navsari

Results of NAU Inter Collegiate Outdoor Games for the Year 2021-22

SN	Event & Date	Position	College Name
1	Basketball Men 04/12/2021	Winner	N. M. College of Agriculture, Navsari
		Runner Up	ASPEE College of Horticulture and Forestry, Navsari
2	Volleyball Men 12/12/2021	Winner	College of Agriculture NAU, Bharuch
		Runner Up	College of Agriculture NAU, Waghai
3	Volleyball Women 12/12/2021	Winner	ASPEE College of Horticulture and Forestry, Navsari
		Runner Up	N. M. College of Agriculture, Navsari
4	Kabaddi Men 24/02/2022	Winner	College of Agriculture NAU, Bharuch
		Runner Up	ASPEE College of Horticulture and Forestry, Navsari
5	Kho-Kho Men 24/02/2022	Winner	College of Agriculture NAU, Bharuch
		Runner Up	N. M. College of Agriculture, Navsari
6	Cricket Men 07-09/03/2022	Winner	College of Agriculture NAU, Bharuch
		Runner Up	N. M. College of Agriculture, Navsari

Results of NAU Inter Collegiate Cultural Competition Gunjan-2021-22

SN	Event	Position	College Name
1	Debate Favour 14/03/2022	Winner	ASPEE Shakilam Biotechnology Institute, Surat
		Runner Up	N.M. College of Agriculture, Navsari
2	Debate Against 14/03/2022	Winner	ASPEE College of Horticulture and Forestry, Navsari
		Runner Up	College Of Agriculture Engineering & Tech., Dediapada
3	Extempore 14/03/2022	Winner	ASPEE College of Horticulture and Forestry, Navsari
		Runner Up	ASPEE College of Horticulture and Forestry, Navsari

4	Drama 25-26/03/2022	Winner	College of Agriculture, Waghai
		Runner Up	N.M. College of Agriculture, Navsari
5	Group Dance (Folk) 25/26-03-2022	Winner	N.M. College of Agriculture, Navsari
		Runner Up	College of Agriculture, Waghai
6	Mime 25/26-03-2022	Winner	College of Agriculture, Waghai
		Runner Up	N.M. College of Agriculture, Navsari
7	Mono Acting 25/26- 03-2022	Winner	N.M. College of Agriculture, Navsari
		Runner Up	College of Agriculture, Waghai

Results of NAU Inter Polytechnic Tournaments for the Year 2021-22

SN	Event & Date	Position	College Name
1	Table-Tennis Male 15/03/2022	Winner	Polytechnic in Agriculture, Waghai
		Runner Up	Polytechnic in Horticulture, Navsari
2	Table-Tennis Female 15/03/2022	Winner	Polytechnic in Horticulture, Navsari
		Runner Up	Polytechnic in Agriculture, Bharuch
3	Badminton Male 15/03/2022	Winner	Polytechnic in Agriculture, Vyara
		Runner Up	Polytechnic in Horticulture, Navsari
4	Badminton Female 15/03/2022	Winner	Polytechnic in Horticulture, Navsari
		Runner Up	Polytechnic in Agriculture, Waghai
5	Volleyball Female 22/03/2022	Winner	Polytechnic in Horticulture, Navsari
		Runner Up	Polytechnic in Agriculture, Bharuch
6	Volleyball Male 22/03/2022	Winner	Polytechnic in Agriculture, Bharuch
		Runner Up	Polytechnic in Agriculture, Waghai
7	Kho - Kho Male 22/03/2022	Winner	Polytechnic in Agriculture, Waghai
		Runner Up	Polytechnic in Agriculture, Bharuch
8	Cricket Male 10-11/03/2022	Winner	Polytechnic in Agriculture, Waghai
		Runner Up	Polytechnic in Horticulture, Navsari

Results of Gujarat State Inter Agricultural Universities Participation for the Year

S N	Game / Tournament	Date	Place of Inter Uni. Tournament	No. of Players Participated	Result
1.	Gujarat State Inter Agricultural Universities (Boys) Volleyball, Badminton, Basketball and Table-Tennis Tournament	24 March 2022	Junagadh Agricultural University, Junagadh	12 – Volleyball 12—Basketball 04 – Badminton 04- Table Tennis	Second Place in Badminton
2.	Gujarat State Inter Agricultural Universities (Girls) Volleyball, Badminton, and Table-Tennis Tournament	24 March 2022	Sardar Krushinagar Dantiwada University, Dantiwada	12- Volleyball 04- Badminton 04- Table Tennis	-First Place in Volleyball -Second Place in Badminton
3.	Gujarat State Inter Agricultural University Kabaddi, Kho-Kho Cricket & Chess Tournament	28-29 March 2022	Navasri Agricultural University, Navsari	12- Kabaddi 12 – Kho-Kho 15 – Cricket 05 – Chess	-First Place in Kabaddi, Kho Kho & Cricket -Second Place in Chess

West Zone Inter-University participation in Sports during the Year 2021-22

SN	Game / Tournament	Date	Place of Tournament	No. of Participants
1.	West Zone Inter University Volleyball (Men) Tournament	December 18-22,2021	Rani Durgavati Vishwavidyalaya, Jabalpur (Madhya Pradesh)	12 Men
2.	West Zone Inter University Badminton (Men) Tournament	January 05-08, 2022	Rajiv Gandhi Proudlyogiki Vishwavidyalaya, Bhopal, (Madhya Pradesh)	06 Men
3.	West Zone Inter University Badminton (Women) Tournament	January 05-08, 2022	Rajiv Gandhi Proudlyogiki Vishwavidyalaya, Bhopal, (Madhya Pradesh)	04 Women
4.	West Zone Inter University Basketball (Men) Tournament	March 08-14, 2022	Jiwaji University,Gwalior, (Madhya Pradesh)	12 Men
5.	West Zone Inter University Table Tennis (Men) Tournament	March 09 - 12, 2022	Jiwaji University,Gwalior, (Madhya Pradesh)	04 Men
6.	West Zone Inter University Kho - Kho (Men) Tournament	March 10-12, 2022	Dr.Harisingh Gour Vishwavidyalaya, Sagar, (Madhya Pradesh)	12 Men
7.	West Zone Inter University Chess (Men) Tournament	March 25-27, 2022	Vivekanand Global University, Jaipur, Rajasthan	05 Men
8.	West Zone Inter University Chess (Women) Tournament	April 09-13,2022	AURO university, Surat	05 Women



Intercollegiate Chess Tournament



Intercollegiate Volleyball Tournament



Inter University Kabaddi Tournament



Inter University Chess Tournament



Vanraj Boy's Hostel, Waghai



Boy's Hostel, Surat



Kaushalya Girl's Hostel, Surat



Boy's Hostel, Vyara

National Service Scheme (NSS)

The aim of NSS is mounting responsibility through social services and realization of work and discipline in student volunteers so as to make them responsible true citizens of India. NSS is in operation in 14 colleges of the university. During the year, the university performed various activities through a strength of 1400 NSS volunteers for regular activities and 700 for the special camp. The distribution of the volunteers in different units is as under:

Sr. No.	Name of College / Polytechnic	Allotment of Volunteers	
		General Activity	Special Camp
1	N. M. College of Agriculture, Navsari	150	75
2	ASPEE College of Horticulture and Forestry, Navsari	150	75
3	College of Agricultural, Bharuch	100	50
4	College of Agricultural, Waghai	100	50
5	ASPEE Shakilam Biotechnology Institute, Surat	100	50
6	College of Agricultural Engineering, Dediapada	100	50
7	Polytechnic in Horticulture, Navsari	100	50
8	Polytechnic in Horticulture, Paria	50	25
9	Polytechnic in Agricultural, Bharuch	100	50
10	Polytechnic in Agricultural, Waghai	100	50
11	Polytechnic Agricultural, Vyara	100	50
12	Polytechnic Agricultural Engineering, Dediapada	100	50
Total NSS volunteer		1250	625

Summary of Unit-wise NSS Activities

Sr. No.	Unit Name	No. of Activities	Volunteers Participated
1	Director of Students' Welfare	15	2470
2	N. M. College of Agriculture, Navsari	14	2137
3	ASPEE College of Horticulture and Forestry, Navsari	15	533
4	College of Agricultural, Bharuch	5	225
5	College of Agricultural, Waghai	18	1658
6	ASPEE Shakilam Biotechnology Institute, Surat	07	293
7	College of Agricultural Engineering and Technology, Dediapada	22	2163*
8	Polytechnic in Horticulture, Navsari	04	513
9	Polytechnic in Horticulture, Paria	13	1038
10	Polytechnic in Agricultural, Bharuch	5	157
11	Polytechnic in Agriculture, Waghai	4	77
12	Polytechnic in Agricultural Engineering, Dediapada	22	2163*
13	Polytechnic in Agriculture, Vyara, Tapi	22	1329
Total		166	10123

Organization of NSS Special Camps

SN	Name of College / Polytechnic	Special Camp	
		Place of Camp	Date
1	College of Agricultural, NAU, Bharuch	Maktampur Village	15/03/2022 to 21/03/2022
2	College of Agricultural, NAU, Waghai	Kilad Village	04/03/2022 to 10/03/2022
3	College of Agricultural Engineering, NAU, Dediapada	Nighat Village	07/03/2022 to 13/03/2022
4	Polytechnic in Horticulture, ACHF, NAU, Navsari	Eroo village	14/03/2022 to 20/03/2022
5	Polytechnic in Horticulture, ACHF, NAU, Paria	Sarodhi	08/03/2022 to 14/03/2022
6	Polytechnic in Agricultural, NAU, Bharuch	Maktampur Village	15/03/2022 to 21/03/2022
7	Polytechnic in Agricultural, NAU, Waghai	Kilad Village	04/03/2022 to 10/03/2022
8	Polytechnic in Agricultural, NAU, Vyara	Panwadi	14-03-200 to 20-03-2022
9	Polytechnic Agricultural Engineering, NAU, Dediapada	Nighat Village	07/03/2022 to 13/03/2022

National Cadet Corps (NCC)

It is a matter of proud for any educational institute to have an ample and affluent scope for students' co-curricular activities. It really carves students' careers in all potential dimensions which we consider constructive and creative in every way not only for the students themselves; but, it is also affirmative for reinforcing the foundation of our beloved Motherland, *India*.

NCC units are active in N. M. College of Agricultural, ASPEE College of Horticulture & Forestry and Vanbandhu College of Veterinary Science and A.H., Navsari and their cadets are taught Discipline, Patriotism, Brotherhood, Sportsmanship and Spirit of Adventure by organizing various camps in which students have been enrolled. Total 80 Parades were conducted round the year in which students were taught weapon training, map reading, civil defense, first aid, field craft and participated in army attachment camp.

Academic Excellence Medals Awarded in 17th Convocation (2020-21)

SN	Name of Medal	Name of Student	Male/ Female	Degree
PG Medals				
1	Chancellor's Gold Medal for Doctoral degree	Suchismita Jena	Female	Ph.D. (Horti)
2	Chancellor's Gold Medal for Master's degree	Pranitha B P	Female	M.Sc. (Agri.)
3	"Matrushree Sukhiben Lallubhai Patel Gold Medal" for highest OGPA in Agronomy (Thesis Work in Weed Management) Post Graduate level	Chauhan Nehal Gijubhai	Female	M.Sc. (Agri.)
4	"Gulabbhai Mehta Gold Plated Silver Medal", sponsored by Sahakari Khand Udhog Mandali Ltd., Gandevi for the student of M. Sc. (Agri.) and Ph.D. in sugarcane or any subject.	Gajjar Kartikkumar Devendrabhai	Male	M.Sc. (Agri.)
5	"ASPEE Foundation Gold Plated Silver Medal" for M.Sc. (Horticulture) either in the subject of Fruit Science or Vegetable Science.	Champaneri Dushyant Dipakkumar	Male	M.Sc. (Horti.)
6	"ASPEE Foundation Gold Plated Silver Medal" for M.Sc (Horticulture) either in the subjects of Floriculture and Landscape Architecture or Post Harvest Technology.	Vidyashree S	Female	M.Sc. (Horti.)
7	"ASPEE Foundation Gold Plated Silver Medal" for Ph.D. (Horticulture) either in the subjects of Fruit Science or Vegetable Science or Floriculture and Landscape Architecture or Post Harvest Technology.	Mamilla Sindhuja	Female	Ph.D. (Horti)
8	"ASPEE Foundation Gold Plated Silver Medal" for Ph.D. (Forestry) in any subject.	Prajapati Dhavalkumar Rajeshbhai	Male	Ph.D. (Forestry)
9	"Kalptaru Gold Medal Silver Medal" for M.Sc. / M.Tech. / Ph.D. (Agriculture / Horticulture / PHT & PE)	Sushmitha M B	Female	M.Sc. (Horti.)
10	"ASPEE Foundation Gold Plated Silver Medal" for MBA (ABM).	Asma M Risaldar	Female	MBA (ABM)
11	"Late Dr. H. U. Joshi Gold Plated Bronze Medal" in the subjects of Plant Pathology for M. Sc. (Agriculture)	Paladiya Sharadkumar Harshadbhai	Male	M.Sc. (Agri.)

12	"Late Mrs. Indumatiben and Dr. PravinbhaiShukla Gold Plated Bronze Medal" in the subject of Production Technology of Medicine Plants for M. Sc. [Horticulture]	Architha MV	Female	M.Sc. (Horti.)
13	"Late Purshottam R. Patel Gold Plated Bronze Medal" in the subject of Agril. Economics for M.Sc. (Agriculture)	Gorasiya Hiral Bhupatbhai	Female	M.Sc. (Agri.)
14	"Guruhari P. P. Hariprasadsamiji Gold Plated Bronze Medal" award in the subjects of Agronomy for M. Sc. [Agriculture]	Bhagora Dishaben Pareshbhai	Female	M.Sc. (Agri.)
UG Medals				
15	Vice Chancellor Gold Medal for B. Sc. Agri.	Archana A K	Female	B.Sc. (Agri.)
16	Vice Chancellor's Gold Medal for B. Sc. Horti.	Odedara Hitesh Pratap	Male	B.Sc. (Horti.)
17	Vice Chancellor's Gold Medal for B. Sc. Forestry	Amal A L	Male	B.Sc. (Forestry)
18	Vice Chancellor's Gold Medal for Agri. Biotechnology	Treesa Thomas	Female	B.Tech. (Biotechnology)
19	Vice Chancellor's Gold Medal for Agri. Engineering	Doshi Dharmil B.	Male	B.Tech. (Agril. Engg.)
20	"Dr. Jayantilal V. MajmudarGold Medal" for the UG student of N. M. College of Agriculture, Navsari for securing highest OGPA in the Subject of Plant Breeding during B.Sc. (Hons.) Agri.	Anisha A	Female	B.Sc. (Agri.)
21	"Late Shri Pramodbhai Desai, The Surat District Co-operative Bank Ltd. Gold Plated Silver Medal" in the subject of Agril. Economics and Extension Education for B.Sc. [Agriculture].	Aiswarya P	Female	B.Sc. (Agri.)
22	"Late Shri Pramodbhai Desai, The Surat District Co-operative Bank Ltd. Gold Plated Silver Medal" in the subject of Plant Protection (Agril. Entomology and Plant Pathology) for B.Sc. [Agriculture].	Gowry P J	Female	B.Sc. (Agri.)
23	"Late Shri Pramodbhai Desai, The Surat District Co-operative Bank Ltd. Gold Plated Silver Medal" in the subject of NRM(Agronomy and Soil Science) for B.Sc. [Agriculture]	Aiswarya P	Female	B.Sc. (Agri.)
24	"ShriKhedutSahakariKhandUdhyogMandli Ltd. Bardoli Gold Plated Silver Medal" in the subject of Agronomy for B.Sc. [Agriculture].	Aiswarya P	Female	B.Sc. (Agri.)

25	"Brig. Anil Adlakha Gold Plated Silver Medal" in the subject of Crop Improvement (Agril. Botany and Plant Physiology) for B.Sc. [Agriculture].	Anisha A	Female	B.Sc. (Agri.)
26	"Late Babubhai]ashbhai Patel Gold Plated Silver Medal" for highest OGPA in B. Sc. (Agril.)	Aiswarya P	Female	B.Sc. (Agri.)
27	"Lalbai Naik Gold Plated Silver Medal sponsored by SahakariKhandUdhyogMandail Ltd.,Gandevi" for highest OGPA in B.Sc. (Agri.)	Aiswarya P	Female	B.Sc. (Agri.)
28	"ASPEE Foundation Gold Plated Silver Medal" for a student who obtains the highest OGPA in B. Sc. (Horticulture).	Odedara Hitesh Pratap	Male	B.Sc. (Horti.)
29	"ASPEE Foundation Gold Plated Silver Medal" for a student who obtains the highest OGPA in B. Sc. (Forestry).	Amal A L	Male	B.Sc. (Forestry)
30	"ASPEE Foundation Gold Plated Silver Medal" for the student B. Sc. (Hons.) Agriculture with highest OGPA in the Subject of Plant Protection	Gowry P J	Female	B.Sc. (Agri.)
31	"Aspee Distributors' Association Gold Plated Bronze Medal" in the subject of Plant Protection for B.Sc. [Agriculture]	Gowry P J	Female	B.Sc. (Agri.)
32	"Dr. D. H. Chavda Gold Plated Bronze Medal" in the subject of Plant Breeding and Genetics for B.Sc. [Agriculture]	Anisha A	Female	B.Sc. (Agri.)
33	"Late ShriBhulabhaiKarshanji Patel Gold Plated Bronze Medal" for a student who obtains the highest OGPA in B.Sc. (Horticulture)	Odedara Hitesh Pratap	Male	B.Sc. (Horti.)
34	"Late Dr. VitthalbhaiJeevrajbhai Patel Gold Plated Bronze Medal" for a student who obtains the highest OGPA in B.Sc. [Forestry]	Amal A L	Male	B.Sc. (Forestry)



Glimpses 17th Annual convocation of NAU, Navsari



17 | FINANCIAL MANAGEMENT

The Navsari Agricultural University, Navsari is primarily a Gujarat State Government funded body. Its financial and proprietary affairs are looked after by Comptroller and Planning Officer under the supervision of Vice-Chancellor of the University.

Sources of Finances

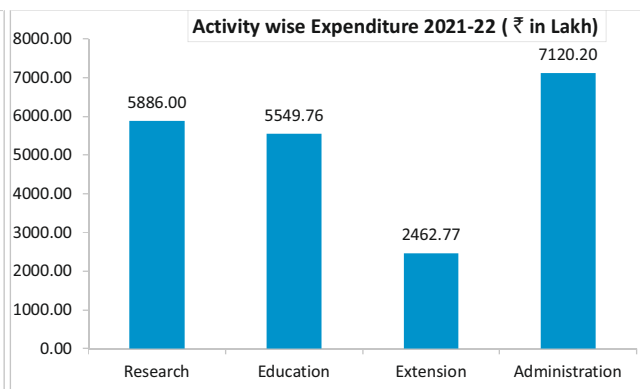
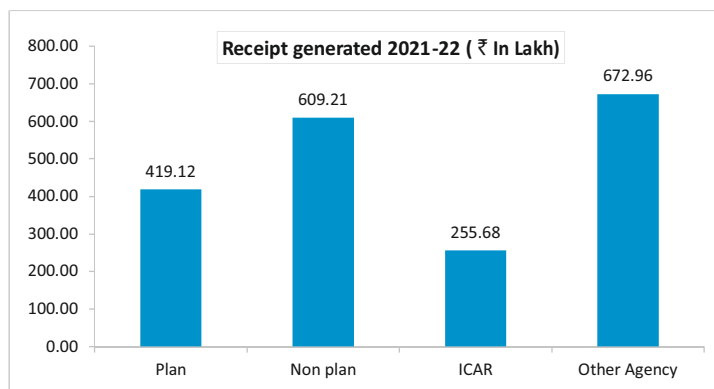
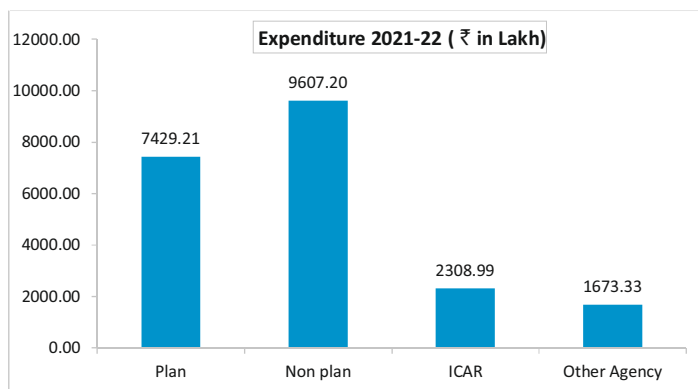
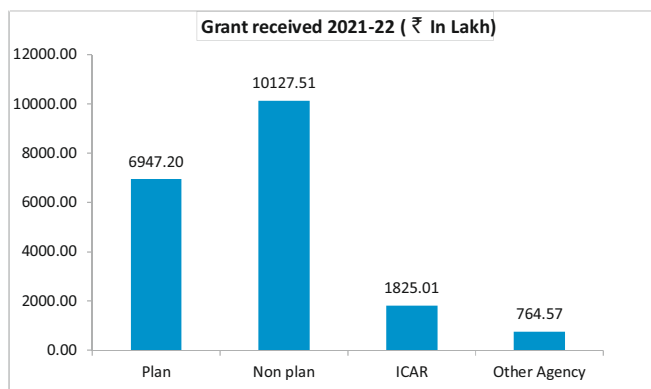
Mainly Government of Gujarat, ICAR and other agencies support the financial assistant of the University. During the year 2021-22, for all round activities of the University major financial assistance received from Government of Gujarat (86.83%), followed by ICAR (9.28%) and other agencies (3.89%). Moreover, University also generated ₹ 1956.97 lakhs utilizing its own resources by selling seeds, plantlets, planting materials and farm produce during 2020-21. Thus, overall University received ₹ 19664.29 lakhs for education, research and extension activities during the year 2021-22.

Budget Allocation and Expenditure

The budget proposal for the Plan and Non Plan were prepared on the basis of actual requirement to run ongoing and new programmes within the available resources. The budget proposals were developed by the Comptroller and Planning Officer of the University and submitted to Department of Agriculture & Cooperation, Government of Gujarat, Gandhinagar for final approval and then submitted to Board of Management for distribution and utilization of grant. The budget control is done on the basis of budget report submitted periodically for review.

BUDGET AND EXPENDITURE (IN LAKH ₹)

Particular		2021-22
Grant	Plan	6947.20
	Non plan	10127.51
	ICAR	1825.01
	Other Agency	764.57
	Total	19664.29
Expenditure	Plan	7429.21
	Non plan	9607.20
	ICAR	2308.99
	Other Agency	1673.33
	Total	21018.73
Receipt	Plan	419.12
	Non plan	609.21
	ICAR	255.68
	Other Agency	672.96
	Total	1956.97
Activity	Research	5886.00
	Education	5549.76
	Extension	2462.77
	Administration	7120.20
	Total	21018.73



Finance Committee

Sr. No.	Designations	Positions
1	Vice Chancellor, NAU, Navsari	Chairman
2	Secretary, Finance Department, GoG, Gandhinagar	Member
3	Secretary, Agriculture Department, GoG, Gandhinagar	Member
4	Selected Member of Board of Management	Non-Official Member
5	Director/Dean Nominated by Vice Chancellor	Member
6	Registrar, NAU, Navsari	Ex-Officio Member
7	Account Officer, NAU, Navsari	Member Secretary

Meetings of Finance Committee

Sr. No.	Particulars of Meetings	Dates
1	19 th Meeting of Finance Committee	27-08-2021
2	20 th Meeting of Finance Committee	27.01.2022

18 | ICAR DEVELOPMENT GRANT SUMMARY

Summary of Annual Report on 'Strengthening and Development of Higher Agricultural Education in India' during 2021-22

Summary of ICAR Grant received during the period under report 2021-22

SN	Grant Details	Grant Received (₹)	Grant Utilized (₹)	Refunded to ICAR (₹)
1	Development Grant	0.00 #	0.00	0.00
2	Library Strengthening	0.00#	0.00	0.00
3	NTS-UG & PG	83,95,882.00	81,78,794.00	2,17,088.00
4	Student READY	85,89,000.00	83,61,383.00	2,27,617.00
5	Internship for Veterinary Graduates	21,09,000.00	21,09,000.00	0.00
6	ICAR PG Scholarship	41,12,994.00	40,95,449.00	17,545.00
7	ICAR-JRF/SRF	37,04,579.00	37,03,549.00	1,030.00
8	Summer / Winter school & Short course "Pest Risk Assessment & Eco-friendly Management of Mite Pest in Agriculture"	27,92,000.00	38,687.00	0.00*
9	Summer / Winter school & Short course "Sustainable Utilization, Value Addition & Conservation of NTFGRs"	27,92,000.00	30,956.00	2,48,244.00
Total		3,24,95,455.00	2,65,17,818.00	7,11,524.00

* ₹ 2,40,513.00/- refunded to ICAR, New Delhi prior before AUC submission

No funds received during the period under report under DG and LG except fellowships and Summer / Winter school & Short course

Total number of smart classroom developed

SN	Name of Colleges	Number & Name of classroom	Smart facilities created
1	N. M. College of Agriculture, Navsari	7 Classrooms (i.e. G-1, G-2 & G-3, Upgraded 4 Classroom UG-3 (F-1, F-2 & Chemistry UG Classroom) & Chemistry PG Classroom - 1)	LCD Projector, Interactive Board & Smart Class Room Equipments
2	College of Agriculture, Bharuch	Total 7 Classrooms (Under Graduate Classroom-3 and PG Classroom-4)	Digital podium along with projector PA system, Internet facility and power backup

3	College of Agriculture, Waghai	3 Classrooms	Projector with touch screen monitor
4	ASPEE College of Horticulture, Navsari	5 Classrooms (D-7, D-8, D-1, D-2 and D-6)	Interactive board, LCD Projector, AC
5	College of Forestry, Navsari	03 Nos. of UG Classrooms	LCD Projectors & White boards
6		02 Nos. of PG Classrooms	LCD Projectors & White boards
7	ASPEE Agribusiness Management Institute, Navsari	3 Classrooms (2 on the 1 st Floor and 1 on the 2 nd Floor)	Fully multimedia class rooms
8	College of Veterinary Science & A. H. , Navsari	07 Nos. of UG/PG Classrooms	All class room equipped with Multimedia device and Internet facility
9		Exam hall 1 and Exam hall 2	LCD Projector
10	ASPEE Shakilam Biotechnology Institute, Surat	06-Classrooms	All class room equipped with Multimedia device and Internet facility

Number of Student Beneficiaries availing RAWE under Student READY in the University

SN	Name of Colleges	No. of Students	Total Amount (₹)
1.	N.M. College of Agriculture, NAU, Navsari	133	23,94,000.00
2	College of Agriculture, Bharuch	70	12,60,000.00
3	College of Agriculture, Waghai	63	11,34,000.00
4	ASPEE Shakilam Biotechnology Institute	44	7,92,000.00
5	College of Forestry, Navsari	37	6,66,000.00
6	ASPEE College of Horticulture, Navsari	120	10,80,000.00
Total		467	73,26,000.00

RAWE – Rural Agricultural Work Experience

Summary of Internship of Veterinary Graduates (ICAR- Internship) for the year 2020-21

SN	Name of College	No. of Students	Total Amt (₹)
1	College of Veterinary Science and Animal Husbandry, NAU, Navsari	150	21,09,000.00
Total		150	21,09,000.00

Number of Student Beneficiaries availing National Talent Scholarship (NTS-UG) for the year 2020-21

SN	Name of Colleges	No. of Students	Total Amount (₹)
1	N.M. College of Agriculture, Navsari	60	20,62,500.00
2	College of Agriculture, Bharuch	22	7,64,200.00
3	College of Agriculture, Waghai	10	4,00,400.00
4	ASPEE College of Horticulture, Navsari	22	7,40,200.00
5	College of Forestry, Navsari	21	75,41,00.00
6	ASPEE SHAKILAM Biotechnology Institute, Navsari	22	6,16,200.00
Total		157	53,37,600.00

Number of Student Beneficiaries availing National Talent Scholarship (NTS-PG) in the University

SN	Name of Colleges	No. of Students	Total Amount (₹)
1	N.M. College of Agriculture, Navsari	41	21,20,200.00
2	ASPEE College of Horticulture, Navsari	01	79,100.00
3	College of Forestry, Navsari	03	99,100.00
4	ASPEE Agribusiness Management Institute, Navsari	13	5,42,794.00
Total		58	28,41,194.00

Summary of ICAR-PG Scholarship [Erstwhile Junior Research Fellowship (JRF)]

SN	Name of Colleges	No. of Students	Total Amount (₹)
1	N.M. College of Agriculture, Navsari	11	13,73,130.00
2	ASPEE College of Horticulture, Navsari	15	17,37,962.00
3	College of Forestry, Navsari	09	7,90,126.00
4	ASPEE Agribusiness Management Institute, Navsari	01	1,94,231.00
Total		36	40,95,449.00

Summary of Scholarship under Senior Research Fellowship (ICAR-JRF/SRF) [Erstwhile ICAR-SRF Scholarship]

SN	Name of Colleges	No. of Students	Total Amount
1	N.M. College of Agriculture, Navsari	05	17,99,334.00
2	ASPEE College of Horticulture, Navsari	05	19,04,215.00
Total		10	37,03,549.00



Status of Experiential Learning (EL) Module established in the University: ₹ in Lakhs

Year of establishment	Name of the EL Modules	Grant Received in lakhs)	No. of Students trained under EL	Product being developed under EL	Revenue earned in (₹ lakhs)	Revolving Fund Generated in (₹ lakhs)	% Share of income distributed to students in (₹ lakhs)
N M College of Agriculture, Navsari							
2006-07	Bio-fertilizer Production Unit	NIL	44	Nauroji -Azotobacter Nauroji -Acetobacter Nauroji -Azospirillum Nauroji -Rhizobium Nauroji -PSB Nauroji -KMB Nauroji -Pseudomonas	1.09	0.274	0.823
2007-08	Plant Tissue Culture Unit	-	45	Banana plant lets	0.04	0.02	0.02
College of Agriculture, Bharuch							
2017-18	Enriched vermicompost production	49.42	70	Vermicompost	-	-	-
College of Agriculture, Waghai							
2018-19	Quality Planting Material Production in Horticultural Crops	66.00	31	Mango graft, Vegetables seedlings (Tomato, Brinjal, Chilli, Onion etc.)	1.28	0.64	0.64
2018-19	Agriculture Waste Management through Vermicomposting	60.12	31	Vermicompost	1.19	0.595	0.595
ASPEE College of Horticulture, Navsari							
2008-09	Protected Cultivation of Hi-Valued Horticultural Crops	60.00	46	Ornamental Plants (Adenium, Indoor plants and succulents) Flower Bouquets and Arrangements	2.35	1.17	1.17

2011-12	Commercial production of horticultural crops	60.10	47	Vegetables (Fenugreek, Green onion, Brinjal, Kale, Cucumber, Tomato grafts)	1.19	0.59	0.59	
2006-07	Post-harvest handling and value addition in horticultural crops	138.00	43	Clonal plants of citrus, mulberry, pineapple, white jamun, cherry etc., seedlings of different fruit crops like coconut, phalsa, guava, citrus, custard apple etc. Mango nectar, Guava Nectar, Pineapple nectar, Orange nectar, Mango squash, Guava squash, Pineapple squash, Orange squash, Noni Juice, Tomato Ketchup, Tomato Ketchup, Mango pulp Tin can, Mango Pulp Bottle, Turmeric Powder, Turmeric Powder, Aloe vera, Pickle, Aonla Candy	0.93	0.23	0.70	
College of Forestry, Navsari								
2015-16	Development of Quality Planting Material in Forestry	72.50	37	Seedlings of major commercial trees	0.072	0.036	0.036	
2013-14	Commercial Apiculture	70.00	37	species, avenue species, medicinal and aromatic plants Honey, wax sheets	2.94	1.47	1.47	

ELU on Bio-fertilizer Production Unit



Students trained under ELP on biofertilizers

ELU on Plant tissue culture



Student performing inoculation work

ELU on Protected Cultivation of Hi-Value Horticultural Crops



Inaguration of Flower Fest & Exhibition by Hon'ble Vice Chancellor Dr. Z. P. Patel



Fertigation in Orchid

Commercial Production of Horticultural Crops (Batch 2020-21)



Preparation of nursery bed



Sowing of vegetable seeds

Post-Harvest handling and value addition in Horticultural crops (Batch 2020-21)



Tomato ketchup processing



Mango nectar processing

Post-Harvest handling and value addition in Horticultural crops (Batch 2020-21)



Photographs of ELU Module on Development of Quality Planting Materials in Forestry

Photographs of ELU Module on Commercial Apiculture



Migratory beekeeping on Dill crop

Glimpses of activities depicting Impact Mentioned during the period under Report



Performing Inoculation Work



Fertigation in Orchid



Sowing of vegetable seeds



Mango nectar processing



Sowing of vegetable seeds



Mango nectar processing



Cutting preparation of different Fruit Crops



19 | Executive Engineer Navsari

Office of Executive Engineer (Estate/construction Department) of Navsari Agricultural University looks after the activities related to new construction and maintenance of irrigation and water management structure, civil and electrical maintenance, etc in the main campus as well as in all sub centers of the university.

In addition, the office looks after transport, electricity, water supply and drainage facilities, maintenance of Guest houses and staff accommodations. The other major job is to prepare plan estimate of the construction work/Maintenance work, to accord technical sanctions as well as execution and monitoring of civil works to be carried out in the University.

Construction Committee

The Construction Committee of the University consisting of the following members constituted under Section-20 (4) of the Common Statutes for Agricultural Universities of Gujarat, 2011.

During the period under report, 54th meeting of the Construction Committee was held on September 09, 2021, 55th meeting was held on January 13, 2022, and 56th meeting was held on February 10, 2022. Details of construction committee are given below:

SN	Designation	Positions
1	Dr. Z.P. Patel, Hon. Vice Chancellor, NAU, Navsari	Chairman
2	Dr. S.R. Chaudhary/Dr/ Timur R. Ahlawat, Director of Research & Dean PG NAU, Navsari	Member
3	Dr. C.K. Timbadia, Director of Extension Education NAU, Navsari	Member
4	Sh C.B. Naik, Comptroller NAU, Navsari	Member
5	Dr. H.V. Pandya, Registrar, NAU, Navsari	Member
6	One expert and renowned Architect from Government Department or recognized University or from outside by Council of Agriculture Universities, Gujarat	Member
7	Superintendent Engineer, Roads and Public Works Department, Surat Circle/Executive Engineer, Roads and Public Works Department, Navsari	Member
8	Er. H.T. Bhansod, Executive Engineer, NAU, Navsari	Member Secretary

During the period under report, Structure of the purchase committee has been appended here under.

SN	Designation	Positions
1	Dr. Z.P. Patel, Hon. Vice Chancellor, NAU, Navsari	Chairman
2	Two non-official members of Board of Management	Member
3	Deputy Secretary of Agriculture and cooperation Department, Government of Gujarat	Member
4	Deputy Secretary of Finance Department, Government of Gujarat	Member
5	Dr. S.R. Chaudhary/ Dr. Timur R. Ahlawat, Director of Research & Dean PGS, NAU, Navsari	Member
6	Head of Concern Department of NAU	Member
7	Dr. H.V. Pandya, Registrar, NAU, Navsari	Member
8	Sh. C.B. Naik, Comptroller, NAU, Navsari	Member
9	Er. H.T. Bhansod, Executive Engineer, NAU, Navsari	Member Secretary

House Allotment Committee

26th meeting was held on 14/03/2022 respectively. Details of House Allotment Committee are given below:

SN	Designation	Positions
1	Dr. S.R. Chaudhary/Dr. Timur R. Ahlawat, Director of Research & Dean PGS, NAU, Navsari	Chairman
2	Principals of all Colleges, NAU	Member
3	All Deans of NAU	Member
4	Dr. C.K. Timbadia, Director of Extension Education NAU, Navsari	Member
5	Dr. H.V. Pandya, Registrar, NAU, Navsari	
6	Dr. R.M. Naik, Director of Student Welfare, NAU, Navsari	Member
7	Sh. C.B. Naik, Comptroller, NAU, Navsari	Member
8	Er. H.T. Bhansod, Executive Engineer, NAU, Navsari	Member Secretary

Works completed during 2021-22

SN	Name of Schemes	Location	Expenditure (Rs in Lakhs)
1	Construction of C Type Quarters at Dediapada	Dediapada	55.02
2	Construction of D Type Quarters at Dediapada	Dediapada	57.43
3	Construction of RKVY Laboratory at Navsari	Navsari	119.07
4	Providing and Fixing Solid PVC Cupboard Shutter, Kitchen Basket & Cupboards with Shutter at NAU, Staff Quarters D-1/1, D-1/2, D-1/4	Navsari	5.09
5	Providing and Fixing Up-Gradation Facility (CB with Shutter, Tvcum Display Unit & Sofa Set) at Vice Chancellor Bungalow, NAU, Navsari	Navsari	4.12
6	Providing and Fixing Solid Cup Board Shutter and Cupboards with Shutter atNAU, Staff Quarters E-1/4, E1/7, E-1/5, E-1/6	Navsari	1.26

Works initiated during 2021-22

SN	Name of Works	Location	Expenditure (Rs. in Lakhs)
1	Construction of Farm Produce Godown at Waghai	Waghai	16.07
2	Construction of Box Culvert at Dandi Road Gate at Nasvari	Navsari	4.41
3	Electrification of Adm cum Laboratory Building at KVK atSurat	Surat	4.40
4	Special Repairing to Cotton Office Toilet Block at Surat	Surat	6.08

20 | Planning, Monitoring and Evaluation Cell, Navsari

About Planning Monitoring and Evaluation Cell

The Planning, Monitoring and Evaluation cell operates under Directorate of Research, Navsari Agricultural University, Navsari. It deals with formulation of annual development plans and monitoring/evaluation of the plans at university level. The main vision of Planning Cell is to fulfil the aspirations of farming community at large and to ensure agricultural development through effective implementation of development charges schemes.

Planning Cell carry out four basic components of planning process *i.e.*, planning, execution, communication of achievements and evaluation of all the schemes, according to the strategies and views decided by Agriculture, Farmers Welfare & Co-operation Department, Government of Gujarat.

At present Navsari Agricultural University has in total 136 development charges schemes, including 33 Educations, 13 Extension Education, 72 Research and 18 ICAR State Share (75:25) schemes. Regular monitoring and evaluation of schemes is a continuous process throughout the year with the mechanism of quarterly review meetings. As a part of that process, planning cell evaluates and monitors the above mentioned schemes in terms of fund utilization and financial as well as physical achievements in quantifiable terms.

Development Charges Schemes (Plan)

Summary of number of Plan Schemes with number of Sanctioned Post (2021-22)									
Activity	Normal Schemes			TASP Schemes			Total		Grand Total Posts
	With Posts	Without Posts	Total Posts	With Posts	Without Posts	Total Posts	With Posts	Without Posts	
Education	16 (196)	13	29 (196)	4 (58)	0	4 (58)	20 (254)	13	33 (254)
Extension Education	4 (19)	6	10 (19)	3 (29)	0	3 (29)	7 (48)	6	13 (48)
Research	44 (135)	12	56 (135)	11 (27)	5	16 (27)	55 (162)	17	72 (162)
ICAR: State share	14 (72)	4	18 (72)	NA	NA	NA	14 (72)	4	18 (72)
Grand Total	78 (422)	35	113 (422)	18 (114)	5	23 (114)	96 (536)	40	136 (536)

*Values shows in Parenthesis indicates the No. of Post in concerned plan schemes.

Number of Sanctioned Post for FY 2021-22

Head	Teaching	Non-Teaching	Contractual	Total
AER-1: Education (2415 01 277 02)	159	28	9	196
AER-2: Extension Education (2415 01 277 03)	10	9	0	19
AER-3: Research (2415 01 004 02)	43	35	57	135
AER-3: ICAR State Share (2415 01 150 01)	34	38	0	72

Head	Teaching	Non-Teaching	Contractual	Total
Normal Total	246	110	66	422
AER-2: Education (2415 01 796 03)	53	3	2	58
AER-6: Extension Education (2415 01 796 04)	17	12	0	29
AER-6: Research (2415 01 796 05)	12	15	0	27
TASP Total	82	30	2	114
Grand Total (Normal + TASP)	328	140	68	536

Planning and Development committee Meetings held during FY 2021-22

Planning and Development Committee (PDC) is a constitutional body of the university and as per the provision made in the common statutes for Agricultural Universities of Gujarat 2011, (Section-20(4), and S.50.1), its meetings are held twice in a year for the purpose of Planning and Development programmes of the university.

During this year 12th and 13th PDC meetings were held online on 09/06/2021 and offline on 20/09/2021, respectively at Conference Hall of Vice Chancellor, NAU, Navsari and discussed the matters pertaining to planning, execution, achievements and evaluation of all the schemes running at on-campus and off-campus centres.



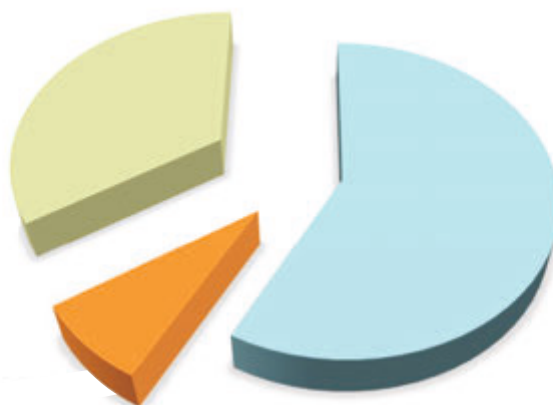
In the financial year 2021-22, total funds received by the university under development charges were Rs. **6951.66** Lakhs. Out of this fund 58% funds were allotted to Education (*i.e.*, 4021.68 lakhs), 34% to Research (2368.28 lakhs) and 8% (561.70 lakhs) to Extension education by Government of Gujarat.

Sanctioned Budget for Development Schemes for the FY 2021-22 (Rs. In. Lakhs)

Head	Pay	Recurring	Non Recurring	Const.	Total
AER-1: Education (2415 01 277 02)	2302.93	809.28	31.97	100.00	3244.18
AER-2: Extension Education (2415 01 277 03)	142.79	106.84	1.57	0.00	251.20
AER-3: Research (2415 01 004 02)	975.60	772.15	16.55	0.00	1764.30
AER-3: ICAR State Share (2415 01 150 01)	214.14	0.00	0.00	0.00	214.14
Normal Total	3635.46	1688.27	50.09	100.00	5473.82
AER-2: Education (2415 01 796 03)	537.50	110.00	30.00	100.00	777.50
AER-6: Extension Education (2415 01 796 04)	242.00	59.00	9.50	0.00	310.50
AER-6: Research (2415 01 796 05)	210.00	176.54	3.30	0.00	389.84
TASP Total	989.50	345.54	42.80	100.00	1477.84
Grand Total(Normal + TASP)	4624.96	2033.81	92.89	200.00	6951.66

Sanctioned ongoing Budget for Development Charges Schemes for the FY 2021-22 (Rs. In Lakhs)

■ Education ■ Extension Education ■ Research



New Plan Schemes Sanctioned in the year 2021-22

Sr. No.	Name of the schemes	Centre	Sanctioned Grant
AER-1: Education (Normal) 2415 01 277 027			
1	Establishment of Department of wildlife science	Navsari	12.57
2	Strengthening of Horticulture College	Navsari	
3	Establishment of College of Agriculture, Bharuch	Bharuch	
4	Strengthening of ASPEE SHAKILAM Biotechnology Institute	Surat	
AER-2: Education (TASP) 2415 01 796 032			
1	Strengthening of College of Agriculture at Waghai	Waghai	3.00
Total (Normal + TASP)			15.57

Economic Impact Assessment of Agricultural Technologies in South Gujarat : A Development Charges Project under Planning Cell

To fulfill and justify the mandate of the planning cell, for micro-level monitoring, evaluation, and time-to-time appraisal of progress achieved in the execution of the plan project as a whole, one master project highly linked with these objectives was proposed to the government of Gujarat. The project, titled "Economic Impact Assessment of Agricultural Technologies in South Gujarat" has been sanctioned as per Government Resolution No. NKV-122018-20-K.2, Dated 23/04/2018 from the financial year 2018-19, and is working with the planning cell, Directorate of Research, NAU, Navsari.

The main aim of the project is to measure the Total Factor Productivity (TFP) and Impact assessment of various technologies developed at the NAU. The project will provide the policy dimension to enhance productivity, sustainability, and competitiveness of Gujarat agriculture and address the issue of food and nutritional security in the region. TFP is an important measure to evaluate the performance of any production system and sustainability of the growth process. The TFP trend indicates whether production growth is taking place in a cost effective and sustainable manner. There was no micro level project for estimation of TFP is available for fruits and vegetable and also impact evaluation of technology developed. This is a first kind of project that uses farmer's data to analyse TFP and impact of research at farmer's field.



Farmers Interactive Meet at Navsari



Puna Village EIA Meet



Moti Haldari Village EAI Meet

Crop and village selection & Base line survey was completed

Summary of Selected Farmers under "Economic Impact Assessment of Agricultural Technologies in South Gujarat"

Sr.No	District	Block	Village	Crops	No. of Farmers
1	Bharuch	Bharuch	Kasad	Green Gram	30
				Cotton	15
		Jagadiya	Hingoriya	Pigeon Pea	15
			Indore	Banana,	15
				Papaya	15
Total	1	2	3	5	90
2	Dang	Waghai	Jamlapada	Nagali	30
			Borpada	Black Gram	30
Total	1	1	2	2	60
3	Narmada	Nanod	Bhadam	Banana	15
				Cotton	15
		Dediapada	Khokhrumer	Pigeon Pea	15
Total	1	2	2	3	45
4	Navsari	Jalalpor	Machhad	Mango	15
			Abrama	Sapota	15
		Vandsa	Navtad	Paddy	15
			Manpur	Cucurbits	15
		Navsari	Dabhalai	Flower Crops	15
			Khadsupa		15
Total	1	3	6	5	90

5	Surat	Mandvi	Puna	Tomato	15
			Nogama	Okra	15
		Olpad	Kosam	Brinjal	15
			Asanad	Cucurbits	15
		Bardoli	Kharvasa	Sugarcane	15
Umarpada	Haldari	Sorghum	15		
Total	1	4	6	6	90
6	Tapi	Vyara	Dhat	Okra	15
			Brinjal	15	
		Khodtalav	Sugarcane	15	
		Nizar	Sorghum	15	
			Papaya	15	
Total	1	2	3	5	75
7	Valsad	Pardi	Asma	Mango	15
				Sapota	15
		Kaparda	Vaddha	Paddy	15
			Huda	Tomato	15
Total	1	2	3	4	60
Total	7	16	25	17	510

Activities carried out under EIA Scheme in the year 2021-22

SN	Name of activities	Total no. of activities conducted
1	Interactive Meet	01
2	EIA selected village Meet and Date collection	25

Publication of 3rd Annual Report

The 3rd Annual Report of "Economic Impact Assessment of Agricultural Technologies in South Gujarat" for the year 2020-21 has been published in March, 2022. In this report, selected 510 farmers from 25 villages out of 16 blocks in seven districts of South Gujarat have been surveyed. A detailed analysis of the survey is presented in this report. This report is intended principally to estimate and present the cost of cultivation of the different selected crops in South Gujarat.



21 | UNIVERSITY PLACEMENT & COUNSELLING CELL

University Placement and Counselling Cell, Navsari is one of the vital components of Director of Students' Welfare (DSW), Navsari Agricultural University (NAU), Navsari. In fact, the ultimate value of a progressive university offering higher education programmes would be the acceptability of its students in the corporate/outer world. In addition to this, Placements has always been a prime consideration for the students and their parents in selecting a particular course, institute and university as well. Considering this, to instill a spirit of professionalism and utilizing HRD expertise, the University Placement Cell was restructured and rechristened as an independent **"University Placement & Counselling Cell"**; with a core HRD professional Dr. Mehul G. Thakkar being the head in-charge of the cell at the University level since June, 2012.

Presently, this University Placement & Counselling Cell is working under the able guidance of Director of Students' Welfare Dr. R. M. Naik as the Chairman of the Cell. It has been established with a clear view to have an integrated linkage with renowned industries and others; and is actively involved in counselling the students for possible areas of career opportunities and enhancing student employability in the globally competitive scenario. Apart from providing assistance for project placement and final job placement to the students and assisting in publishing separate Placement Brochure of each institute annually; the cell is determined for overall professional development of the students through regular training and development interventions; industry-academia interaction, field/industrial visits and such other activities. So, the focus is not only on providing lucrative job opportunities to the interested and eligible students; but also on instilling lifetime confidence for career and life.

I. Vision

- To position NAU as the most preferred recruitment destination for renowned corporate houses across the globe

II. Mission

- Strengthening the self image of the students and boosting their morale and motivation through counselling services
- Improving the employability of our students through customized training and professional grooming services
- Providing lucrative project placement and job placement opportunities to the interested and eligible students

III. Placement Cell at Institutional level

- Under the direction and support of this University Placement & Counselling Cell, each of our college/institute is also having fully functional and active "Placement Cell" at the Institute Level headed by Placement Officer of the respective institute and supported by a team of Placement Assistants. So, along with the University Placement & Counselling Cell, there are 14 Institutional Level Placement Cells, which are actively working in the direction of ensuring holistic development of students and lucrative placement for them. The present office bearers and structure of the University Placement & Counselling Cell is as follows:

IV. Structure of University Placement & Counselling Cell for the period 2021-22

SN	Institution / College	Name & Designation of the Official	Designation in University Placement & Counselling Cell
1	Navsari Agricultural University (NAU), Navsari	Dr. R. M. Naik DSW, NAU, Navsari	Chairman University Placement & Counselling Cell
		Dr. Mehul G. Thakkar Associate Professor (HRM) AABMI, Navsari	University Placement & Counselling Head
2	N.M. College of Agriculture (NMCA), Navsari	Dr. Priya John Associate Professor (Plant Pathology)	Placement Officer (Agriculture)
3	ASPEE College of Horticulture (ACoH), Navsari	Dr. Alka Singh Professor & Head (FLA)	Placement Officer (Horticulture)
4	College of Forestry (CoF), Navsari	Dr. Harsha T. Hegde Assistant Professor (FPU)	Placement Officer (Forestry)
5	ASPEE Agribusiness Management Institute (AABMI), Navsari	Dr. Mehul G. Thakkar Associate Professor (HRM)	Training & Placement Officer (ABM)
6	College of Agriculture (CoA), Bharuch	Dr. Deepa B. Hiremath Assistant Professor (Agril. Economics)	Placement Officer (Agriculture)
7	College of Agriculture (CoA), Waghai	Mr. Dilip M. Damasia Assistant Professor (Entomology)	Placement Officer (Agriculture)
8	ASPEE Shakilam Biotechnology Institute (ASBI), Surat	Dr. Vaibhav N. Mehta Assistant Professor (Nanotechnology)	Placement Officer (Biotechnology)
9	College of Agril. Engineering & Technology (CAET), Dediapada	Dr. Hitesh Sanchavat Assistant Professor (Farm Machinery and Power Engi.)	Placement Officer (Agril. Engineering)
10	Polytechnic in Agriculture (PIA), Vyara-Tapi	Dr. Viral N. Parmar Assistant Professor	Placement Officer (Agriculture)
12	Polytechnic in Agriculture (PIA), Bharuch-Narmada	Mr. P. M. Sankhla Assistant Professor (Horticulture)	Placement Officer (Diploma Agriculture)
13	Polytechnic in Agriculture (PIA), Waghai-Dang	Dr. Shreeshail Rudrapur Assistant Professor (Agril. Economics)	Placement Officer (Diploma Agriculture)
14	Polytechnic in Horticulture (PIH), Navsari	Dr. Shivam T. Bhatt Assistant Professor	Placement Officer (Diploma Horticulture)
15	Polytechnic in Horticulture (PIH), Paria	Mr. Amit I. Makawana Assistant Professor (Entomology)	Placement Officer (Diploma Horticulture)

16	Polytechnic in Agril. Engineering (PIAE), Dediapada	Dr. Arun P. Lakkad Assistant Professor (Soil & Water Eng.)	Placement Officer (Diploma Agril. Engg.) (since 11/06/2012)
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V 6th Meeting of University Placement & Counselling Cell of NAU, Navsari under the Chairmanship of Honourable Vice Chancellor Dr. Z. P. Patel

On December 6, 2021; the Director of Students' Welfare organized the 6th Meeting of University Placement & Counselling Cell of NAU, Navsari under the Chairmanship of Honourable Vice Chancellor Dr. Z. P. Patel; wherein Placement Officers of 7 Degree Colleges and 4 Polytechnics remained present along with DSW Dr. R. M. Naik and University Placement & Counselling Head Dr. Mehul G. Thakkar. After opening remarks and initial briefing by Dr. Mehul G. Thakkar, the DSW formally welcomed the Chairman and Honourable Vice Chancellor Dr. Z. P. Patel Sir and acquainted all with the phenomenal progress of the cell in last 9+ years. As per the agenda items, various issues were deliberated and the house made fruitful suggestions. With joy, DSW Sir informed the house that from this year, we will come up with innovative training modules for our students in collaboration with Nationally Renowned Institutes. As the Chairman of the Meeting, Hon'ble Vice Chancellor Dr. Z. P. Patel emphasized on taking due care to foster professional grooming of our students in competitive era. He also suggested to keep due record of and give wide publicity to our shining alumni for strengthening our alumni network; leading towards win-win outcome. He urged all the Placement Officers to schedule the Full Day Powerful Pre-Placement Preparatory Training on "Campus to Corporate – C₂C" for the passing out batches of 2022 at the earliest, as Dr. Mehul G. Thakkar informed the house that 7 leading companies have already confirmed their participation in Campus Placement Drive-2022. VC Sir also suggested to all colleges to expedite the publication of Placement Brochure-2022 and assigned the task of writing contents for the initial 6-8 standardized pages for Placement Brochure to Dr. Mehul G. Thakkar. He also suggested minor changes in the Placement Policy of NAU, Navsari; to which the house unanimously agreed in toto. Once again, he reaffirmed his continued commitment for holistic development of students by sharing that Together, "WE CAN, WE WILL". I am always there to support your promising initiatives. The meeting ended with a lot of positive vibes and affirmative action, which could be seen from the fact that after the meeting just within 2 hours, most of the colleges gave dates for organizing the Full Day In-house Career Management training Programme on "Campus to Corporate – C₂C"; unique offering by any of the SAUs of India.

VI. Placement Summary

This Placement Year of 2021 was a very peculiar one, as 3 of our colleges including Vanbandhu College of Veterinary Science & Animal Husbandry, College of Fisheries Science, and Polytechnic in Animal Husbandry were shifted to the newly constituted Kamdhenu University, Gandhinagar. Added to this, successively for the 2nd year, the business landscape was badly hit by COVID-19 pandemic across the globe. Almost during the entire placement season, all the students remained locked at their homes and still our University Placement & Counselling Cell put an impressive show.

Out of the different pass out students of 2021; 299 students opted higher studies and 79 students secured jobs in 66 Placement Interviews during the year. Maximum salary of 5.40 Lakhs per annum was offered to M. Sc. (Horticulture) students.

Summary of the Student Placement	Total 79 Students Secured Jobs					
	PG: 45		UG: 27		Diploma: 7	
	M	F	M	F	M	F
	31	14	24	3	5	2
Summary of the Student Placement	Total 299 Students Opted Higher Studies					
	PG: 51		UG: 186		Diploma: 62	
	M	F	M	F	M	F
	20	31	110	76	40	22

Release of Placement Brochure-2022

Every year, the University Placement & Counselling Cell and office of DSW positively push and facilitate all the institutes of NAU, Navsari to prepare, publish and distribute Placement Brochure for the passing out batch. Early publication of this important document surely serves as a bridge between the prospective employers and the high quality talent pool of our University. 2021-22 being a year of hardships for the academic institutions as there was disturbances due to rising cases of COVID-19 and Omicron. In this situations also, Navsari Agricultural University, Navsari has taken the challenge to active the drive of University Placement and Counselling Cell and brought the Placement Brochure-2022 entitled “**Future Ready Agribusiness Management Professionals - the Agribusiness Warriors of NAU**”.



I. Soft Skill Development and Professional Grooming through Capacity Building Training Programmes

In order to develop the soft skills and professional outlook among students of NAU, several capacity building training programmes were organized by the University Placement & Counselling Cell by effectively using the online tools to reach out to the students during lockdown period. In 2021-22, as the students were at their homes due to COVID-19 pandemic lockdown, this Cell responded well to the need of the hour by offering online training sessions. University Placement & Counselling Head personally conducted total 15 Training Sessions of 55 hours duration. Total 1478 candidates of NAU participated and benefitted by these sessions. This cell also organized 4 Training Programmes of 34 hours duration which benefitted 918 candidates of NAU.

Brief of major capacity building training programmes organized/conducted during 2021-22 is given below.

II. Events organized

1. 56th Successive & 1st In-house “Campus to Corporate-C₂C” Training Programme of Placement Year-2022

In this 56th successive & the 1st Powerful Pre-Placement Preparatory Training of Full Day Career Management Training Programme on “**Campus to Corporate - C₂C**”, the In-house HRD Trainer of NAU-Navsari Dr. Mehul G. Thakkar, imparted training on various topics viz. Employability Scenario, Effective Resume Writing, Projecting Powerful Body Language, Power Dressing for Success, Developing and Projecting Positive Self Image-Powerful Personality Development & Impression Management Tips, Managing Online Reputation, Developing Right Attitudinal Mindset for Job Hunting and Winning the Interview.



85 students of B. Tech. (Biotechnology) enriched themselves with the much needed inputs for preparing themselves for the upcoming Placement Season-2022. The programme was graced by Dean of Faculty of Biotechnology Dr. R. M. Patel and 16 faculty members including Dr. R. L. Leua, Dr. Himanshu D. Bhimani and the Placement Officer of ASBI-Surat Dr. Vaibhav N. Mehta.

2. 57th Successive & 2nd In-house “Campus to Corporate-C₂C” Training Programme of Placement Year-2022

On November 27, 2021; the University Placement & Counselling Cell, DSW Office of NAU, Navsari organized a Full Day Powerful Pre-Placement Preparatory Training on “Campus to Corporate – C₂C” for MBA (ABM) and Ph. D. (ABM) students of the oldest and the most preferred ABM college of Gujarat – ASPEE Agribusiness Management Institute, Navsari. As the President of the impressive Inaugural Ceremony of this innovative In-house Full Day Career Management Training Programme, the Hon'ble Vice Chancellor Dr. Z. P. Patel led from the front and addressed and inspired the august gathering in the Seminar Hall of AABMI. Chief Guest Dr. R. M. Naik - DSW boosted the morale of all by emphasizing the importance of C₂C programme and advised students to take maximum out of this whole day event. Then, the Special Invitee Top Ranking Jewel Alumni of AABMI Mr. Sanghdeep D. Chauhan shared useful insights for grabbing lucrative placement opportunities.



Finally, VC Sir appreciated the hard work and rigorous efforts of DSW office and University Placement & Counselling Cell Head Dr. Mehul G. Thakkar for personality development, leadership, entrepreneurship development and job placements of NAU students and told that even amidst the COVID-19 pandemic in 2021, the University Placement & Counselling Cell organized 66 Placement Interviews and provided jobs to many students of NAU. He proudly stated that this is the 57th successive Full Day In-house Career Management Trg. Programme on “Campus to Corporate – C₂C” of NAU; unique offering by any of the SAUs of India and the 8th successive C₂C at AABMI. He advised all that whatever you do may be the best; but you will have to market it well and move ahead with a strong self belief. This C₂C programme is actually preparing you all to get marketed in the career world by improving your employability.

Then, the Pioneer of this unique module – NAU's Internationally Awarded In-house Employability Enhancer HRD Trainer Dr. Mehul G. Thakkar conducted highly effective and engaging 7 lead training sessions till 7.45 pm in late evening as a part of C2C Trg. Programme and prepared the MBA (ABM) and Ph. D. (ABM) students for their career journey.

3. University Level Guest Lecture on “Agriculture, Fertilizer & Pesticide Scenario and Career Prospects – Gujarat vis-à-vis India”



On December 10, 2021; three dignitaries of the world renowned MNC Zydex Industries Pvt. Ltd. were invited to interact with the UG-PG Students of various institute of NAU, Navsari. After impressive opening remarks and welcome address by Dr. Mehul G. Thakkar, the Chief Guest Dr. R. M. Naik – Director of Students' Welfare of NAU, Navsari inspired the august gathering with his powerful address. He emphasized on the need of having such interaction with top notch industry professionals for spreading awareness about the latest happenings of the domain. Then, Shri Sunny Narang – HR Head, Shri Prasad Joshi – Asst. Manager-HR and Shri Alpesh Panchal – Operations Manager of this company one-by-one shared their words of wisdom and delivered an eye opening expert talk on the topic of “Agriculture, Fertilizer & Pesticide Scenario and Career Prospects – Gujarat vis-a-vis India”. 120 UG-PG students along with Placement Officers of three institutes of NAU, Navsari actively participated in this thought provoking guest lecture and enriched themselves with the much needed insights about the present scenario and career prospects in these fields.

4. ONLINE 58th Successive & 3rd In-house “Campus to Corporate-C2C” Training Programme of Placement Year-2022

On January 25, 2022; the University Placement & Counselling Cell, DSW Office of NAU, Navsari organized a Full Day Powerful Pre-Placement Preparatory Training on “Campus to Corporate – C₂C” for Diploma Agriculture, B. Sc.-Hons. (Agriculture) and M. Sc. (Agriculture) students of Agri. Polytechnic and College of Agriculture, Bharuch. Considering the prevailing cases of Omicron variant in Gujarat, this was organized through GOOGLE Meet. As the President of the impressive Inaugural Ceremony of this innovative In-house Full Day Career Management Training Programme, the Hon'ble Vice Chancellor Dr. Z. P. Patel led from the front and addressed and inspired the august gathering through the virtual mode. The Chief Guest Dr. R. M. Naik - DSW boosted the morale of all by emphasizing the importance of C₂C programme and advised students to take maximum out of this whole day event. He also shared the overall structure of this wonderful programme.



Finally, in his Presidential Remarks, VC Sir proudly stated that this is the 58th successive Full Day In-house Career Management Trg. Programme on “Campus to Corporate – C₂C” of NAU; unique offering by any of the SAUs of India and also expressed his feelings of great satisfaction that the DSW office and University Placement & Counselling Cell have been using the online platforms to reach out to students even during the tough times. He even shared inspiring anecdotes from his own real life and advised all to believe in own self. He urged the participating students to timely register for the campus placement interview opportunities and appear with full preparation for sounding success. He even termed this C₂C programme as the best intervention for employability enhancement.

Then, the Pioneer of this unique module – NAU's Internationally Awarded In-house Employability Enhancer HRD Trainer Dr. Mehul G. Thakkar conducted highly effective and engaging 7 lead training sessions till 5.15 pm as a part of C₂C Trg. Programme and prepared the passing out students for their career journey.

5. 15th Successive 2-Day ONLINE Training Programme on “Leadership & Entrepreneurship Development” for Diploma Students of 2 Horti. Polytechnics of Navsari and Paria

During February 4-5, 2022; the University Placement & Counselling Cell, DSW Office of NAU, Navsari in collaboration with the renowned National Council for Climate Change, Sustainable Development & Public Leadership (NCCSD), Ahmedabad organized the 15th Successive 2-Day ONLINE Training Programme on “Leadership & Entrepreneurship Development” for Diploma Students of Horti. Polytechnics of Navsari and Paria.

After setting the tone of the programme with an impressive introductory brief by the University Placement & Counselling Cell Head and Programme Coordinator Dr. Mehul G. Thakkar, it was followed by delightful welcome address of Principal of Horti. Polytechnic-Navsari Dr. Ketan D. Desai. Then, the former DEE of NAU, Navsari Dr. R. B. Patel highlighted the aims of this wonderful programme. Guest of Honor Dr. R. M. Naik - DSW boosted the morale of all by emphasizing the importance of two buzz words 'Leadership' and 'Entrepreneurship' and appreciated Hon'ble Vice Chancellor Dr. Z. P. Patel Sir's keen interest in fostering entrepreneurial eco-system in NAU, Navsari.



The Chief Guest Dr. Kirit N. Shelat Sir - Retd. IAS and Executive Chairman of NCCSD shared 3 magic mantras to succeed as a leader and entrepreneur – *First having a compelling vision, second setting achievement framework for the Goals and third is to strategize efforts for achieving the same.* He also appreciated NAU's constant endeavors for setting new benchmarks.

Finally, Hon'ble Vice Chancellor Dr. Z. P. Patel led from the front and inspired the august gathering with his presidential remarks. He told all the students that they going to serve as the real backbone of horticulture domain and they all will need to demonstrate leadership and entrepreneurial competencies in future. He also emphasized on the vision of Hon'ble PM Shri NarendraModiji to abandon the mentality of a “Job Creator” and becoming a “Job Seeker”. He also remarked that success of Skill India, Make in India, Start-Up India and many such government schemes will largely depend on how the students think and act. VC Sir appreciated the hard work and rigorous efforts of DSW office and University Placement & Counselling Cell Head Dr. Mehul G. Thakkar for personality

development, leadership, entrepreneurship development and professional grooming of NAU students. He advised all that they need to be crazy and will have to market well to rise as a leader and an entrepreneur. This programme will not only prepare them as a possible leader and entrepreneur; but will also help to learn how to market whatever they do.

Then, 5 handpicked trainers – Dr. R. B. Patel, *Internationally Acclaimed Author-Educator-Trainer-Mentor and Chairman Emeritus of Excel Industries Ltd.* Shri GURUJI G. Narayanaji, NAU's Internationally Awarded In-house HRD Trainer Dr. Mehul G. Thakkar, *Founder & CEO of Digital AgriMedia Company* Shree JagdishDhanani and *Freelance Development Professional* Shri Hetal Pathak conducted highly effective and engaging training sessions, which were unanimously appreciated by one and all. 142 Diploma Horticulture students along with the Placement Officers, Faculty Members and Principals of Horti. Polytechnics of Navsari and Paria felt value addition by being a part of this unique learning intervention.

6. 16th Successive 2-Day ONLINE Training Programme on “Leadership & Entrepreneurship Development” for Diploma Students of 3 Agri. Polytechnics of Vyara, Waghai and Bharuch

The University Placement & Counselling Cell, DSW Office of NAU, Navsari and National Council for Climate Change, Sustainable Development & Public Leadership (NCCSD), Ahmedabad jointly organized the 16th Successive 2-Day ONLINE Training Programme on “Leadership & Entrepreneurship Development” for Diploma Students of Agri. Polytechnics of Vyara, Waghai and Bharuch during February 18-19, 2022.

University Placement & Counselling Cell Head and Programme Coordinator Dr. Mehul G. Thakkar gave the much needed hype and sparkling start to this programme with impressive introductory brief, which was then followed by delightful welcome address and words of wisdom by Dr. R. M. Naik – DSW. Then, the former DEE of NAU, Navsari Dr. R. B. Patel highlighted the aims of this wonderful programme. Guest of Honor Dr. A. R. Pathak - Former VC of NAU & JAU and Present Council Member of NCCSD, Ahmedabad appreciated such wonderful collaborative initiative and shared various entrepreneurial avenues for the students of agriculture. He highlighted the die-hard need for igniting a spark for entrepreneurship among the students of SAUs of Gujarat for contributing to the super ordinate goal of India. The Chief Guest Dr. Kirit N. Shelat Sir - Retd. IAS and Executive Chairman of NCCSD gave a thought provoking address and boosted the morale and motivation of all by sharing the roadmap for becoming an effective leader and a successful socially responsible entrepreneur.

Finally, the President of the inaugural ceremony Dr. R. D. Pandya – Principal & Dean of NMCA, NAU, Navsari gave presidential remarks. He told all the students that today, across the world, there is a lot of talks about two words – First is Leadership and second is Entrepreneurship. This is because in a fastly developing country like our India, it is very much important that our youth develop leadership qualities and come up with entrepreneurial zeal.

This is the need of the hour. He also appreciated the fact that the University Placement & Counselling Cell of our DSW office responded to the need of the hour by organizing ONLINE Training Programme in this tough time.

Then, 5 handpicked trainers – Dr. R. B. Patel, *Internationally Acclaimed Author-Educator-Trainer-Mentor and Chairman Emeritus of Excel Industries Ltd.* Shri GURUJI G. Narayanaji, NAU's Internationally Awarded In-house HRD Trainer Dr. Mehul G. Thakkar, *Founder & CEO of Digital*



AgriMedia Company Shree JagdishDhanani and *Freelance Development Professional* Shri Hetal Pathak conducted highly effective and engaging training sessions, which were unanimously appreciated by one and all. 242 Diploma Agriculture students along with the Placement Officers, Faculty Members and Principals of these 3 Agri. Polytechnics enriched themselves by actively participating in this wonderful programme.

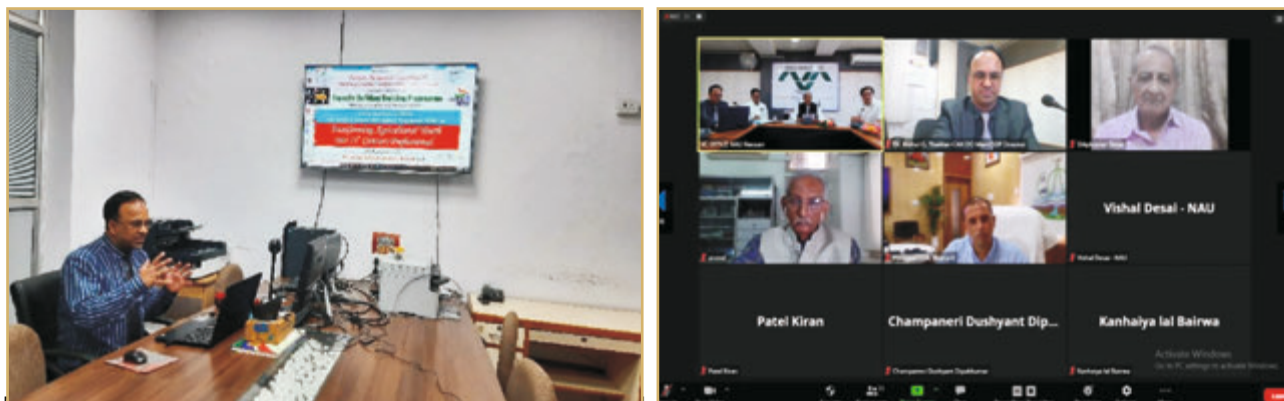
7. **1st Ever One Week VIRTUAL International Soft Skills Development Programme (ISSDP) on “Transforming Agricultural Youth into 21st Century Professional” for PG & Ph. D. Students of NAU, Navsari**

During February 16-22, 2022; the University Placement & Counselling Cell, DSW Office of NAU, Navsari in association with the beacon of HRD activities through training & Development activities in the country since 1970 – the Indian Society for Training & Development (ISTD), New Delhi (Vadodara Chapter); organized the 1st Ever One Week VIRTUAL International Soft Skills Development Programme (ISSDP) on “Transforming Agricultural Youth into 21st Century Professional” for 410 PG & Ph. D. Students of NAU, Navsari.

In the Inaugural Ceremony on 16th February, the University Placement & Counselling Cell Head and ISSDP Director Dr. Mehul G. Thakkar set the tone of the programme with an impressive introductory brief highlighting the skill development initiatives of NAU. Delightful welcome address of the ISSDP Convener and DSW Dr. R. M. Naik was appreciated by one and all. He also shared that skill development in higher education is the need of the hour for making our youth ready for facing the challenges of the 21st Century. Then, the Guest of Honour - Regional Vice President (RVP) of ISTD Shri Dilip S. Desai advised the participants to be more agile and proficient in rational use of time by referring to VUCA world filled with Volatility, Uncertainty, Complexity and Ambiguity. Another Guest of Honour – Former RVP of ISTD and proud alumni of IIMA Shri Arvind P. Khode sensitized the participants to be creative by thinking beyond the box and become path breakers. Given the competitive global landscape, he also advised the students to be more focused on career and not a job; and emphasized on developing higher EQ and Cross Cultural Sensitivity. Chief Guest Dr. Timur R. Ahlavat – Director of Research & Dean-PGS of NAU, Navsari made an eye opening statement that competition starts right from the birth and continues till you find a resting place after death. He advised the student to firmly decide to thrive for competition and emphasized on sharpening the axe before chopping the tree by quoting legendary Abraham Lincoln. He requested the young minds to play on strengths and work on weaknesses to achieve sounding success.

Finally, as the President of this hitherto programme Hon'ble Vice Chancellor Dr. Z. P. Patel inspired the august gathering by referring to *Azadi ka Amrit Mahotsav* and *Aatma Nirbhar Bharat Abhiyan* to make India a self reliant nation on the world map. He categorically told that this forward looking campaign of our Hon'ble PM Shri Narendra Modi can't be achieved without capacity building of our youth brigade which is the pillar of our nation. He also appreciated the fact that despite being badly hit by the COVID-19 pandemic, our Agriculture sector has done fairly well. In fact, Agriculture and Allied sectors have emerged as the major contributor to the GDP of our Agrarian Economy. He remarked that as the ideal building block of our country's economy, the agriculture sector needs to be managed by those, who are professionally and technologically sound, filled with powerful vision, untiring passion and professional outlook. With such competent professionals, India can certainly position high in terms of becoming the proud food basket of the world with happiness and prosperity for our farmers also. Referring to this, he advised the participating students to take maximum advantage of this one week learning intervention with global speakers. He urged them to make it happen by showing inner urge and passion. He emphasized that this ISSDP programme will certainly transform you all into 21st century professional. He congratulated Dr. R. M. Naik and Dr. Mehul G. Thakkar for regularly taking such pioneering initiatives and thanked ISTD for collaborating with NAU

for such forward looking training interventions. Then, Dr. Mehul G. Thakkar proposed the vote of thanks.



Throughout the ISSDP, starting from 10 February afternoon, 5 seasoned distinguished internationally acclaimed facilitators from Germany, Poland, USA and India with hard to achieve sort of National & International Certifications conducted 2 hours mesmerizing session on various topics of current concern. As a unique feature of the ISSDP, a Qualifying Examination was also taken by the ISSDP Director based on the MCQs given by each of the Trainers and Certificate of Participation and Recognition were issued only to those participants who successfully completed the entire ISSDP and scored minimum 60% of marks in the exam. The overall effectiveness of the ISSDP could be gauged from the fact that the participants rated the programme as highly effective with a very high rating of 4.96 on a scale of 1 to 5.

8. 59th Successive & 4th In-house “Campus to Corporate-C₂C” Training Programme of Placement Year-2022

On March 23, 2022; the University Placement & Counselling Cell, DSW Office of NAU, Navsari organized a Full Day Powerful Pre-Placement Preparatory Training on “Campus to Corporate – C₂C” for Diploma Agriculture and B. Sc.-Hons. (Agriculture) students of Agri. Polytechnic and College of Agriculture, Waghai. This was the 6th C₂C of PIA and CoA-Waghai.

Dr. J. J. Pastagia - Principal of CoA-Waghai boosted the morale of all by emphasizing on the importance of C₂C programme and shared useful insights on how this programme has helped the students in shaping right career in the past. Dr. Mahaveer Choudhary – Principal of PIA-Waghai also highlighted the significance of professional grooming in this competitive era. Dr. Mehul G. Thakkar as the pioneer of this unique employability enhancement intervention spoke about the ongoing employability scenario and urged the participants to remain ready for the upcoming placement drives. He also shared the overall structure of this wonderful programme. Then, the Pioneer of this unique module – NAU's Internationally Awarded In-house Employability Enhancer HRD Trainer Dr. Mehul G. Thakkar conducted highly effective and engaging 7 lead training sessions till 5.30 pm as a part of C₂C Training Programme and prepared the passing out students for their career journey. The programme ended with a lot of spontaneous appreciation and positive feedback from the participants and presentation of Memento to the Trainer Dr. Mehul G. Thakkar.

22 | Department of Information Technology, Navsari

A well-developed Department of Information Technology (DIT) for planning, coordinating, implementing, and maintenance all the IT infrastructure of the university. DIP provides services of Internet and IPsec VPN across the university. It has performed various infrastructure development and software development activities for NAU subject to different requirements arise during the period 2020-21. Details of the activities are presented hereunder.

IT Hardware/Networking Development Activities

a. New Tower Setup

Department of IT, NAU has started to establish direct p2p connectivity using wireless devices directly from Navsari Server Room. In this regard, 11 towers have been established at various remote station locations. The towers are all self-supporting. All of the towers will be utilized to provide wireless connections between different distant stations of NAU. The connection will be delivered straight from the Navsari location. Navsari and NAU distant places Danti Ubhrat, Surat, Hansot, Tanchaa, Achaalia, Bharuch, Bardoli, Vyara, Gandevi, and Paria are home to the New Towers. Using suitable wireless equipment, these towers will provide Internet and different online intranet services of NAU directly from the Navsari location. A new P2P direct connectivity from IT Server room is in progress at present for Surat, Bardoli, Vyara, Danti Ubhrat, Hansot, Tanchha, Achhalia, Mangrol sub-centers.



b. New Server Setup and Installation

IT Department has procured and deployed Hyper-Converged Infrastructure (HCI) in 4 numbers at NAU. Vsan Ready highly capable servers and one Backup server. All the new servers will be hosting upcoming new online services and will work as backbone of the all the units of NAU Online Services in near future.



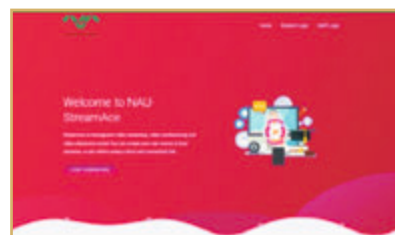
c. New Fiber Optic Network Establishment

In the Navsari Campus, new about 5 km of Overhead Fiber Optic Cable based connectivity has been established in Ring Topology. The Fiber will pave high speed connectivity across the Navsari Campus and pave the way for excellent information speed for the online service and internet across the Navsari Campus. This development works paves for the major network infrastructure push for the NAU.

IT Software Development Activities

a. Setup of NAU Streaming Server

IT department of NAU has established and deployed the NAU Stream Ace Server for hosting NAU E-class. This server service works in conjunction of NAU E-class for streaming online video for using online Video features of the NAU E-class. This server is ultimate requirement for managing NAU E-class services.



b. Annual Internet Service and IPsec VPN Services

Navsari Agriculture University has procured dedicated 1:1 100 Mbps leased line and IPsec VPN Connectivity across the University. The IPsec VPN connectivity connects remote centers of Dediypada, Bharuch, Paria and Waghai. IT department has also upgraded the NKN leased line with bandwidth of 1 Gbps and providing speed of approximate 100 Mbps. The IP Department is merging the Internet of both the Bandwidth and providing internet services to Navsari Campus and Remote centers through IPsec VPN connecting. It connects remote center with single Network of NAU.

c. Development & Deployment of NAU Drive Portal

IT department has developed the NAU drive portal for storing data on NAU servers. It will be effective and secure as data is stored on NAU servers at IT Server Room

d. Development & Deployment of E-class Portal

Navsari Agricultural University, Navsari has deployed its own developed platform for the Online E-classes for the benefits of students and faculties in June 2019. Due to present COVID-19 situation, University has adopted the own developed NAU E-class platform for the University. The Different features have been added till date. The Distinguish features of the NAU E-class facility is given below. More than 10,000 sessions are already been conducted via NAU e-Class portal.

- E-classes through audio and video modes.
- Only Registered students can participate in the Class room.
- OTP based login for Faculties and Students for Secure Login.
- The subject wise class room are mapped for the faculties.
- Facility to share subject wise Video Lecture, Assignment, Old Question Papers, Practical Manual among the Students.



e. Procurement of Transactional SMS with API Integration support.

IT department has procured 4.5 lakh Transaction SMS with API Integration support for the various online services of NAU. This SMS is used for the Online Services OTP, various Intimations to NAU students and NAU Staff as per the instructions given by the University Authorities.

f. Deployment SSL certificates for various online services of NAU

IT department has deployed SSL (Secure Socket Layer) Certificates for all the Online Services of NAU and university website www.nau.in. An SSL (secure sockets layer) certificate is a digital certificate that both authenticates the identity of a website, and encrypts sensitive information so that any passwords, addresses or credit card numbers cannot be intercepted or read by anyone other than the intended recipient.

g. Procurement & Deployment of Voice SMS Services

IT department has procured and deployed Voice SMS service for the NAU. Voice SMS service has recently started to gain popularity. It is a form of verbal communication which is automated. It works as either a recorded audio or text to speech format. There are many benefits of using a voice SMS for University's extension activities of NAU.

h. Development & Deployment of Online subjective examination at NAU

Navsari Agricultural University, Navsari has deployed module for descriptive Examination through online mode. It helps in taking examination with descriptive or subjective type questions in E-class platform, instead of other platforms. It is highly secured and customized as per the special requirements of NAU.



i. Procurement & Deployment of N-procure E-token Services

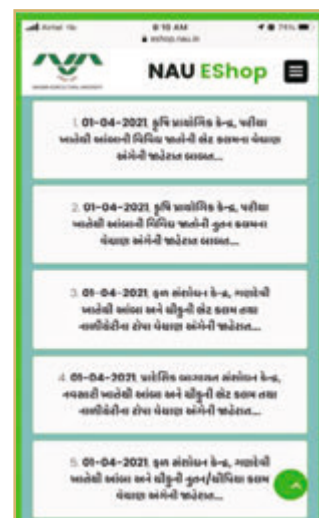
IT department has procured N-procure E-token for E-tendering processes of NAU. This New E-token has been procured and used for the E-tendering process of the various units.

j. Procurement & Deployment of SOPHOS license 3 years at NAU

Department of Information Technology is providing services of Internet and IPsec VPN across the university. For managing Network, Internet, Network security firewall is required. NAU is using SOPHOS XG 310 firewall. IT department has procured the one Year license subscription for the SOPHOS XG 310 firewall.

k. Development & Deployment of E-shop portal for online plant selling

IT Department has deployed the new online plant selling Platform called NAU E-shop Portal on the vision of Hon'ble Vice Chancellor, Dr. Z.P. Patel. It is successfully deployed and all the remote centers and NAU campus centers who are selling plants/seedlings/saplings are actively using it. All the requests are made through this platform only and successfully many farmers have adopted it.



l. Deployment of Seqrite End Point for IT Department

IT Department NAU has procured and Deployed Seqrite End Point Protection for the Servers and the different computers of IT Department for the Security Purpose.

m. Video-conferencing facilities

IT Cell NAU has developed its own e-Learning portal to conduct Video-conferencing. Video-conference of this portal is store in the NAU Local server which highly secured and confidential.

IT department has procured ZOOM License and CISCO Webx license for the during this time period based on the requirements and instructions given by the University Authorities.

n. NAU SSO Customization

IT department has also customized the SSO (Single Sign On) Services for the different IT Services of NAU. It has made customization as per the feedback received from various stake holders of the NAU. This customization has made SSO more effective and Stable



o. NAU Live Streaming Activities

Presently, IT Department is managing Live stream Activities for the various functions of the NAU through YouTube channel "NAVSARI AGRICULTURAL UNIVERSITY" presently it is having 4.6K subscribers. IT department has Live streamed 16th Annual Convocation of NAU, Various online symposium, Webinars, International Yoga Day Celebration as per the request received from the university.



Additional Activities and Services provided during period 2020-21

- IT cell NAU is maintaining Online Job Application Software. It provides online Job Application Service to applicants.
- IT cell NAU is providing Jobs and Admission Hall Ticket Generation Service to University based on the Requirement.
- IT Cell NAU is proving OMR Scanning software to university based on their request for Recruitment and OMR Scanning based Examinations conducted in the University.

- IT cell NAU is maintain and managing Old nau.in website and new nau.in University website. The nau.in website is managed by decentralization approach each unit is able update their section on the website through their own only.
- IT cell NAU is also operating SMS Portal for University enabling SMS to students and staff for Important Announcement. This SMS is sent as per the request received from different units.
- IT Cell NAU is managing and maintaining online KIOSK Server developed for the Farmer Community.
- IT cell NAU is hosting various Online Services IPaddy Expert System, Sugarcane Expert System and various online services as per the needs of the University at IT Server Room.
- IT Cell NAU is managing nau.in based e-mail services for the University Employees and Planning to start nau.in based E-mail service accounts for the students of NAU.
- IT Cell NAU is providing various Live Streaming, Webcasting Services through for the NAU as per the needs of the University. It is also providing various events live through YouTube.
- IT Cell NAU is managing online complaint management software for Logging complaint for Internet and Networking Issues across the University. It is been managed by the IT Cell NAU.
- IT Cell NAU is hosting and provide service support for the NAHEP CAAST website for the university.
- IT Cell NAU also provides User Manual for each NAU applications/portals which helps user to easily understand the working applications/portals.
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- Download Centre of SSO provides helpful information to the SSO user. User can download user manual, NAU LOGO, SSO APP for android and many more.
- IT Cell NAU has created a NAU YouTube channel which helps farmers to get valuable Agriculture information. Video on important topic of agriculture is created by NAU Scientist, that video is uploaded to YouTube channel by IT Cell and help farmers to receive that valuable information at any time anywhere.
- IT Cell is also providing support to the various online Software in development for the University like Online Financial Accounting System, Online Cashbook Management software, Online Fees and University Income Management software, Online Payment Management Systems, Online Auditing Management system for Comptroller Office, Online HRMS for Registrar Office.

"Agricultural Experiment Monitoring System" (AEMS)

The first portal of its kind in Gujarat's SAUs was launched on July 9, 2021, by the Honorable. Dr. Z. P. Patel, vice-chancellor, and the "Agricultural Experiment Monitoring System" (AEMS). In accordance with the Government of India's Digital Push, the Honorable Dr. The VC chose to digitise NAU's agricultural experimentation processes. The Honorable conceived of this portal. Mr. Chirag Naik and his team from the IT Cell based on the outputs supplied by Dr. Sunil Chaudhary (DR and Dean PGS), Dr. Vikas Naik (ADR-Agri), Dr. T. R. Ahlawat (ADR-Horti), and Dr. J.M. Patel (Head-SWRMU), and a team specifically established for this purpose. The

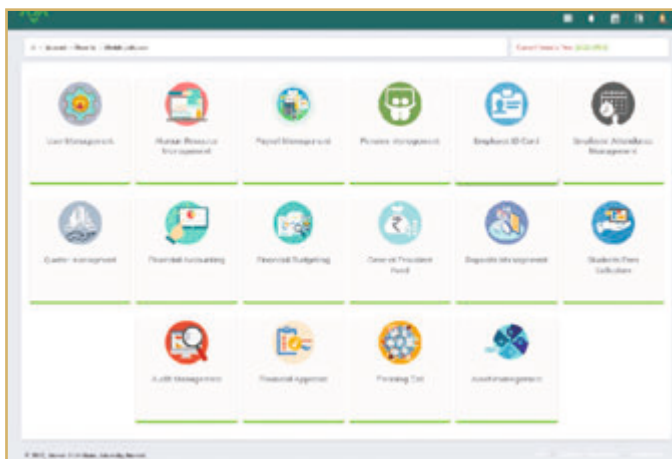


importance of planning, implementation, monitoring, and documentation in any university research project was underlined by the honourable Vice Chancellor Dr. Z. P. Patel Sir. The AEMS would revolutionise the monitoring and reporting of agricultural experiments conducted at NAU by its scientists. He urged the

scientific community at NAU to embrace and maximize use of this gateway for the benefit of farmers in southern Gujarat.

New URP

Hon'ble Vice Chancellor Dr. Z. P. Patel and Shri. D. T. Chaudhary launched the HRMS and accounting modules of NAU Navsari's newly developed ERP/URP system on August 31, 2021, in the presence of Dr. S. R. Chaudhary, DR; Dr. C. K. Timbadia, DEE; Dr. R. M. Naik, DSW; and Dr. D. K. Patel, Head, GSAC. Mr. Chirag Naik presented the capabilities and benefits of ERP/URP, including SSO, online office orders, online salary difference changes filing, near-zero paper file submission, QR code, and unique link-based document authentication, etc. The Hon'ble VC sir lauded the IT cell and the chief software developer, Shri D.T. Chaudhary, for their outstanding performance. On the occasion of his retirement, Shri D. T. Chaudhary was honoured for his illustrious career and contributions to NAU as comptroller. All dignitaries and members of the comptroller's office wished him well on his retirement with his family.



Smart card-based milk sales system

Dr. Z. P. Patel, the Hon'ble Vice-Chancellor of NAU Navsari, introduced a smart card-based milk sales system at the Livestock Research Station on October 20, 2021. During the event, Dr. S. R. Chaudhary, Directorate of Research; Dr. C. K. Timabadia, Directorate of Extension Education; and other university officials, including Principals /Deans of the NAU and Principals/Deans and HoDs of the Veterinary College, Kamdhenu University, were present. The Hon'ble Vice-Chancellor congratulated Dr. N. B. Patel, Unit Head, and the entire team of the LRS for this impactful initiative in digitalization. He emphasised that digitization will definitely help in the betterment of the work of the Livestock Research Station and will result in efficient management of milk sales.



Receiving income online through Bhim QR Code

At Navsari Agricultural University, Navsari, भिम QR CODE was distributed to University Withdrawal and Payment Officers to accept university income digitally. Under the positive attitude Hon'ble Vice Chancellor Dr. Z. P. Patel and his guidance by the office of the Director of Accounts on 28/01/2011 as part of good governance of the University Government, BHIM QR CODE was distributed to the withdrawal and disbursement officers of the University to digitally accept the



receipts of the University.



Digital I-card distributed to pensioners at Navsari Agricultural University, Navsari. Under the visionary leadership of Hon'ble Vice Chancellor Dr. Z. P. Patel and his guidance by the office of the Director of Accounts Digital I-Cards for Pensioner were distributed to the pensioners of the University on 28/1/2011. During the programme the Comptroller of the University Shri Chirag Nayak informed about how the digital I-card of the pensioners will be used through QR CODE SCANNING APPLICATION.

Varieties/ Hybrids developed by NAU



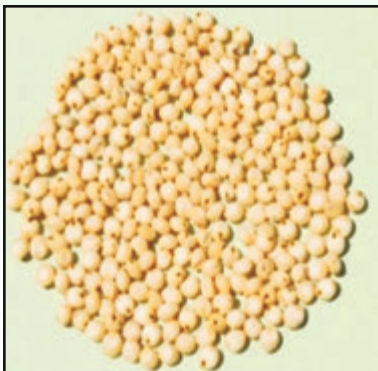
Rice: GNR-8 (Aarti)



RICE: GR-18 (Devli Kolam)



RICE: GR-19 (Auranga)



SORGHUM: GJ-44 (Madhu)



**SORGHUM: GFS-7
(Tapi Chari)**



**MANGO GINGER: GNMG-1
(Amravanti)**



**ELEPHANT FOOT YAM:
GEFY-1 (SWAGATA)**



COTTON: G.Cot-40



COTTON: G.Cot-42



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