




**VAN  
UDYAN**  
(2019-20)



**ASPEE College of Horticulture & Forestry**  
**Navsari Agricultural University**  
**Navsari - 396 450 (Gujarat)**

## Our Philanthropist



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

### **LATE SHRI LALLUBHAI MAKANJI PATEL**

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

Founder & MD

ASPEE Group of Companies



# **VAN UDYAN**

(2019-20)

**ASPEE College of Horticulture & Forestry  
Navsari Agricultural University  
Navsari -396 450 (Gujarat)**

**Month and Year of Publication : June-2020**

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Principal and Dean  
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**Dr. S. R. CHAUDHARY**  
VICE CHANCELLOR

## MESSAGE

I am extremely delighted to learn that ASPEE College of Horticulture & Forestry is bringing out the College Magazine "*VAN UDYAN*" for the year 2019-20. The college magazine is a forum which could aptly be used for recording events, fond memories and creative writing. I am sure that this magazine will be informative and resourceful. On this occasion, I convey my good wishes to the principal, students, faculty and staff of the college in their endeavours. I take this opportunity to congratulate the Principal & Dean Dr. P.K. Shrivastava and his team of committed publication cell for their commitment towards value based quality teaching and unstinted efforts put in to ensure that each student is cared for in the college.

It is quite inspiring to watch and witness the potential of our students unfolding at various stages and situations each day. Trying and testing times during the hectic semester system have elicited our students to put forth their best. The management and the staff have been supportive of the various activities that were undertaken by the students in view of helping them reach the pinnacle of perfection and professionalism in whatever task they took on, thus strengthening our journey of achieving excellence. The college magazine exemplifies the voyage transverse and exhibits the literary skills of our students. The students have been fostered to be humane professionals in every act and there is no doubt that our outgoing students will indeed achieve new heights in life. Best wishes and blessings to our dear outgoing students of the Batch 2016-17.

I am confident that efforts to excel in the field of higher education and the inculcation of moral values in the students at the University Campus will continue in future with a greater zeal.

I compliment the efforts made by the Principal & Dean, ASPEE College of Horticulture, his team and students for bringing "*VAN UDYAN*" College Magazine into a shape and wish all success in future endeavours.



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**Dr. S. R. CHAUDHARY**  
Director of Research &  
Dean, Post Graduate Studies

## MESSAGE

I extend warm greetings and felicitation to all inmates of ASPEE College of Horticulture & Forestry and feel immensely happy to learn about publication of college Magazine "*VAN UDYAN*".

The college magazine exemplifies the voyage transverse and exhibits the literary skills of our students. It chronicles the vast spectrum of scholastic and non-scholastic activities carried at the college for overall personality development of young learners. It also showcases the achievements in various spheres and thus exhibits the endeavours made by the Institution, faculty and students for attainment of objectives and social goals. It is fulfilling to watch that our students are moving on to new paths and mastering them.

I earnestly hope that the present generation will aim higher, strive harder to emulate the examples set by their seniors and will carve impressive image to be cherished. I have always believed in hard work, dedication and devotion to one's profession. College undoubtedly plays a pivotal role in sculpting the learners but it requires that inside fire which should remain smoldering.

I am confident enough that our students will prosper in every walk of life. I extend my heartfelt wishes for the success of this magazine and congratulate Principal & Dean, ACHF, his team and students for this endeavour.

I once again compliment entire family of ASPEE College of Horticulture & Forestry for this accomplishment and wish triumphant future.



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**Dr. H. R. PANDYA**  
REGISTRAR

## MESSAGE

I am gratified to know that ASPEE College of Horticulture and Forestry is bringing out college magazine "VAN UDYAN" for the academic year (2019-20). The present times have witnessed numerous challenges in education, hence teaching fraternity needs to strive endlessly hard to give prolific meaning to education and equip students with professional skills that provide them opportunities and vision of their future. College magazine is such a platform, which not only highlights curricular and co-curricular activities of students but set a milestone for future.

I congratulate the Principal, editors, faculty and students of ASPEE College of Horticulture and Forestry who used various mediums of expression to present their ideas. As long as our ideas are expressed and thoughts kindled we can be sure of learning, as everything begins with an idea. I appreciate every student who shared the joy of participation in co-curricular and extracurricular activities along with their commitment to curriculum. I also applaud the coordination and efforts of publication team to bring out this issue.

To outgoing batches of Horticulture and Forestry, I wish all happiness in their lives... Go forth and do yourselves and Institute proud!



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**Dr. C. V. SAVALIA**  
Director of Students' Welfare

## MESSAGE

I am glad to know that ASPEE College of Horticulture & Forestry is bringing out the College Magazine "*VAN UDYAN*" exclusively meant for the students with their invaluable potential and talent for the year 2019-20. In addition to the numerous achievements of the college, this is yet another mile stone in their curricular and co-curricular activities. I congratulate all the contributors and editors for the exemplary creation.

In student life, hard work and efforts are required to chisel the personality and college undoubtedly plays a pivotal role in sculpturing them. This college magazine is a forum which aptly be used for recording events, fond memories and creative writing. The outside world will come to know about the caliber of our students through this magazine.

On this occasion, I take this opportunity to congratulate the Principal and Dean of ASPEE College of Horticulture & Forestry, Dr. P. K. Shrivastava and his team for their commitment towards value based quality teaching and unstinted efforts towards students' welfare and making them competent enough to face challenges in future. I wish all the very best for the success of "*VAN UDYAN*".

All the best to the students for their efforts and wish them to set a benchmark.





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**Dr. P.K. SHRIVASTAVA**  
Principal & Dean

## MESSAGE

At the outset I congratulate Dr. O. P. Sharma and young team of Publication cell for coming up with the much awaited College Magazine "*VAN UDYAN*" of the year 2019-20, in few months time. Last year also we tried to get the articles from students and staff but due to unknown reasons there were negligible responses. But, with the advent of 2020, a new publication cell was formulated with an aim to regularize publications of college magazine, annual reports and other publications of the ASPEE College of Horticulture and Forestry. As per the University policy and ICAR guidelines all research papers and articles of the college are supposed to be directed either through the publication cell or intimated to the cell for keeping chronological record of publications from the college.

The college magazine is open for articles in English/ Gujarati/ Hindi, from interested students, faculties, technical and non technical staff of the college. The magazine gives an opportunity to students for developing skills of creativity may be in the form of writing stories, poems, general information, documentation of college activities, tour account, motivational blog, enlisting historical or geographical facts, current affairs, science and sports write-up, stories of hostel – college life or a review of any co-curricular activity.

We wish to provide platform to the students for contributing in the college magazine that would be memorable journal of their college life. Through such publication our endeavour is to develop the writing skills which could be honed later in the life of graduating young minds. Writing proficiency not only gives direction to the thought process but it also enhances the ability of expression needed in any profession one joins. I hope more number of students will join the club of writers in the ensuing issues of the magazine.

I once again congratulate all the contributors and acknowledge the sincere efforts of publication cell in editing and documenting the inputs from various sources and I also appreciate the faculties of the college who provided support in finalizing the magazine. Good Luck.

## MESSAGE



**Dr. N.B. Patel**  
Chairman  
Students' Representative Council

It gives me a profound privilege and pleasure to inform that Students' Representative Council has been putting consistently and persistently hard to make students stronger enough to tackle any kind of challenges for serving the mankind professionally and socially. Main focus of the council is to empower the students with the wisdom, experience, life values, leadership etc. along with academic and professional activities. It is quite inspiring to watch and witness the potential of our students unfolding at various stages and situations each day. Trying and testing times during the hectic semester system have elicited our students to put forth their best in co-curricular activities also. This magazine gives an insight into the range and scope of the imagination, creativity and achievements of our students.

I convey my heartfelt congratulations to the editorial team for successful compilation and publication of this Magazine- "*VANUDYAN*".

## MESSAGE



**Dr. M.K. Desai**  
Co-Chairman  
Students' Representative Council

Students' Representative Council provides platform to students that empowers them for the future and the co-curricular activities help inculcate positive attitude towards life. In education, we not only intend to give technical knowledge but a right direction how to lead life. The council advisors guide students in taking up new challenges, teach them to manage programmes on their own and more on working as a team to accomplish the targeted tasks. In my ten years of tenure as cultural advisor and then co-chairman, I observed that despite given very less time, fewer resources amidst academic pressure, our students have achieved many heights and accomplishments. We believe, students will come out with creative thoughts, novel ideas and activities that can synergize with academics and help them excel in both curricular and co-curricular.

I take this opportunity to congratulate the editorial team of "*VANUDYAN*"- 2019-20.



**Dr. O.P. Sharma**



**Dr. Sanjeev Kumar**



**Dr. Viral P. Prajapati**



**Dr. Tulsi D. Gurjar**

## Editorial

*“When you write more and more personal it becomes more and more universal.”*

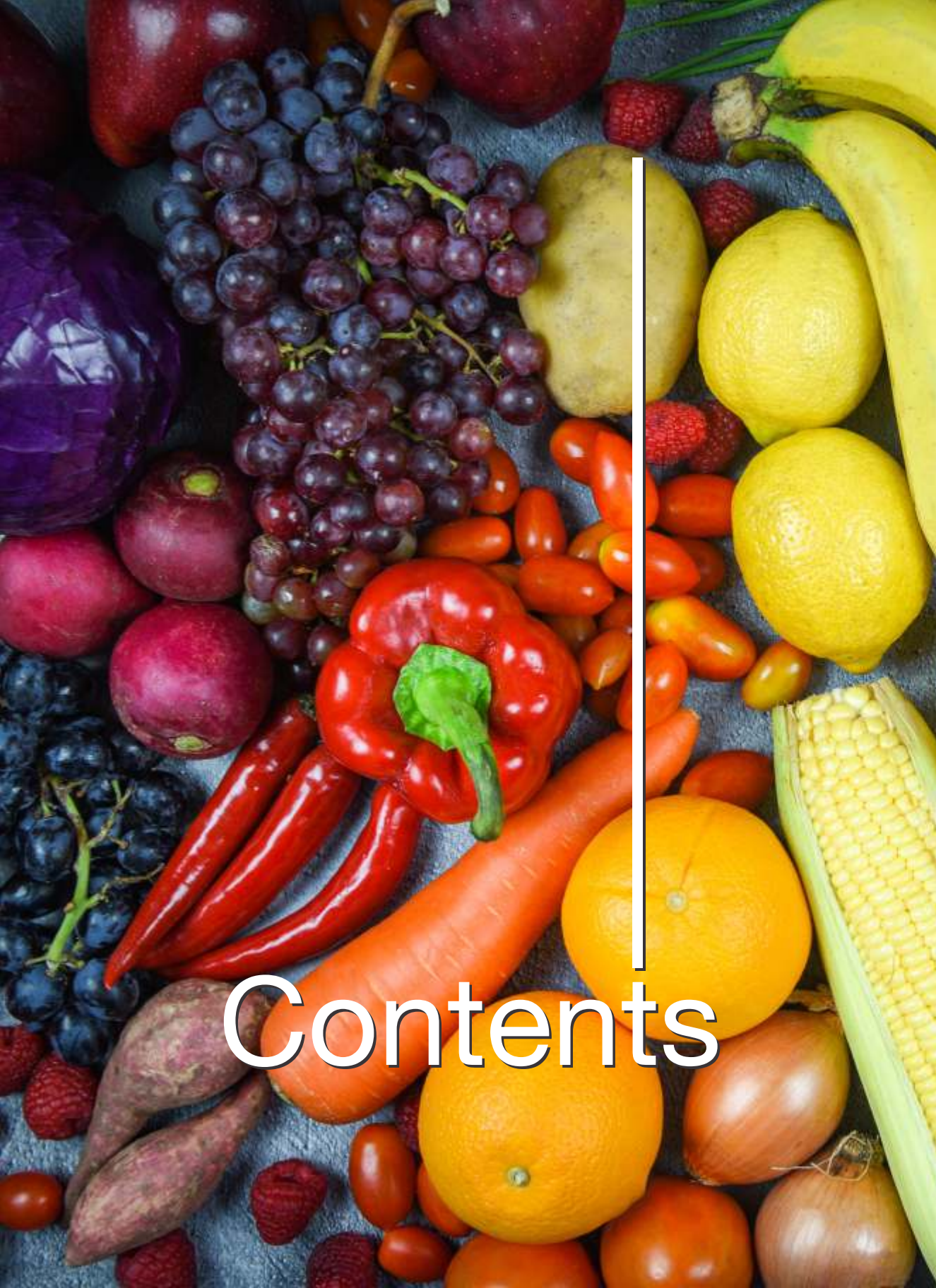
The writing comes to life when it meets its reader. Students are most enthusiastic budding creative expressionist who just needs a platform to throw their ideas and emotions on the paper. A college magazine is there to eloquent all those expressions for the tasteful readers and thus, magazine forms a bridge between overflowing thoughts and artistic embellishment. "VAN-UDYAN" is one of the most eagerly awaited moments for students, staff and all those associated with ACHF family. The college magazine showcases the literary expressions, social awareness and recognition to all the achievers in the academic and extracurricular activities, strengthens the internal bonding amongst the staff and students of ACHF as one family.

We are very much thankful to Dr. P.K. Shrivastava, Principal & Dean for valuable suggestions and unconditional support as and when needed. We would like to acknowledge the efforts of all the Head of Departments, Faculty members and Students' Representative Council (SRC) of ASPEE College of Horticulture and Forestry for bringing in the innovative thoughts and ideas from the students and faculty. ACHF has always stood for "Excellence in Life through engaged learning"; and therefore, magazine reminds us of the intensive pursuit of a creative and novel endeavour.

The editorial board like every year went through a stupendous task of selecting and finalizing the best of the best creative material for the magazine. We are overwhelmed with the humongous response both by the students and the staff members with their drafts. We hope this edition of VAN-UDYAN will set the bar higher with its interesting and novel material which will certainly astonish the reader. We would be delighted to receive your valuable feedback for motivation and self-retrospection.

**Thank You All**





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# College Profile-Horticulture

## GENESIS

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

## OPERATING ENVIRONMENT

### Education System

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

### Research System

Under the aegis of Navsari Agricultural University (NAU) and ASPEE College of Horticulture and Forestry, the Regional Horticultural Research Station has been working



since 1965 to strengthen various research activities of fruits and vegetables. There are 3 different schemes running under Fruit Science and PAMA namely Strengthening Activities of Fruit Crops, Research in Fruit crops and AICRP on Palms working on various aspects of fruit production, breeding and climate change, and 5 different schemes running under Vegetable Science viz., Research in Vegetable Crops under Protected Conditions Phase-II, Research and Development in Vegetable Crops, AICRP on Tuber Crops, AICRP on Vegetable Crops and Vegetable grafting to mitigate biotic and abiotic stresses in vegetable crops with different experiments on crop improvement, production technology, protected cultivation and vegetable grafting. In Department of Floriculture and Landscape Architecture, 3 different research schemes/projects viz., Establishment of Research Project on Floriculture, Practical Training Centre of Hi-Tech Horticulture for Horticultural Students, Advanced Technology centre of Soilless System for various Crops and AICRP on Floriculture are operative, under which various research trials on crop improvement, production technology, protected cultivation and soilless cultivation of flower crops are running. Beside this, two NHM sponsored project i.e. Model Nursery for Fruit and Ornamental Plants are also running in which different fruit, vegetable and ornamental seedlings/grafts/plants are prepared and sold to farmers on the basis of no loss no profit base. Two different research schemes viz., Centre of Excellence of Post harvest Technology and Establishment of Fruits and Vegetable Packing Research Station are also undergoing. The Department of Post Harvest Technology undertakes basic and strategic research in cutting edge technologies for innovative breakthrough, development of post harvest handling, transportation, packaging and intelligent storage structure for horticultural crops, development, testing, popularization and commercialization of post harvest protocols, establishment of infrastructure in terms of pilot plants (Mango, Tomato, Banana and Onion) for processing (primary /secondary /tertiary).

### **Extension System**

All the extension activities are directly organized by Directorate of Extension Education, NAU, Navsari through various farmer training programmes like on campus training programme in Sardar Smriti Kendra, Agricultural Technology Information Centre and Farmers Training Centre and off campus at different villages of South Gujarat. Horticultural scientists give their valuable inputs not only to farmers of the state but also out state farmers. Farmers willing to seek government subsidy to Green House cultivation are also trained on various aspects of Protected Cultivation of Horticultural Crops by horticultural scientists in 15 days training programme organized at Agricultural Technology Information Centre, NAU, Navsari. Besides this, college also organizes training programmes and exhibition-cum-competition and Hand-on-Trainings to the farmers of Gujarat. The Scientists also disseminate various horticultural technical know-how through publications, TV and Radio talks in vernacular language. Active participation of scientists in Krishi Mahotsava – a flagship programme of Government of Gujarat organized to benefit the farmers with Hi-Tech horticulture technologies.

## Vision

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

## Mission

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



# SWOT Analysis

## Strengths

- 1) At present, Government Organizations, State Agricultural Universities and Non-Government Organizations are involved in increasing acreage and production of major tropical and sub tropical horticultural crops.
- 2) Area under horticultural crops is increasing year by year.
- 3) Climate of Western India is highly suitable for various types of fruit, vegetable and flower crops especially tropical, subtropical and arid.
- 4) Western India is rich in plant biodiversity that could be utilized for developing promising cultivars of desirable traits, especially underutilized fruits (tamarind, jackfruit, jamun, lasoda, custard apple etc.) and vegetable crops (gourds, tuber crops and tree vegetables), medicinal, spices and aromatic plants.
- 5) Technologies have been developed for rejuvenation of old and senile orchards to increase productivity.
- 6) Gujarat has a long sea coast which is highly suitable for coconut, other palms and vegetables like salicornia.
- 7) An increase in area under horticultural crops as a result of assured irrigation facility being provided by Government.
- 8) Government policies are supportive for horticultural development and other required infrastructure.
- 9) Technologies have been established for by-product utilization of mango, banana, onion, tomato, potato etc.
- 10) Technologies developed for off-season and early sowing which provide better remuneration in tomato, capsicum, muskmelon, watermelon, greater yam, strawberry.
- 11) Climatic conditions of South Gujarat are more congenial for protected cultivation of rose, gerbera, orchid and heliconia.
- 12) Vansada and surrounding area has emerged out as nursery hub of the state because of favourable agro-climatic conditions for plant multiplication.
- 13) Horticultural processing industry is the emerging sector for food processing and value addition.
- 14) Highly qualified faculty members and well-equipped laboratories are available to develop new innovative technologies.
- 15) Availability of facilities to set-off new horticulture college at Paria.

## Weaknesses

- 1) Unawareness of farmers in respect to cultivation practices and export.
- 2) Maximum area under fruits crops (sapota, mango, cashew, coconut) is covered by single variety.
- 3) Unavailability of quality planting material in tuber vegetables and fruits like cashew, papaya and underutilized fruits.
- 4) Less knowledge about value addition and waste utilization of major fruit and vegetable crops.
- 5) Volatile markets and market intelligence.
- 6) Lack of standard grafting techniques for cashew, unutilized fruit crops and vegetable crops
- 7) Shortage of trained human resources in horticulture.
- 8) Lack of perfect production technology for problematic soils / coastal regions.
- 9) Lack of standard package of practices for underutilized fruit and vegetable crops, medicinal, spices and aromatic plants.
- 10) Unavailability of off-season, regular bearing, extended fruiting duration cultivars with longer shelf life in horticultural crops.
- 11) Lack of crop specific practices for protected cultivation of vegetable and flower crops.
- 12) Lack of complete protocol for post harvest management and processing of most of fruits and vegetables.
- 13) Lack of trained supporting manpower for processing and value addition.
- 14) Marketing of dehydrated vegetables.
- 15) High capital investment required for setting up of the processing units.
- 16) Lack of processing technologies for underutilized fruits.

## Opportunities

- 1) Lots of barren/ fallow land and hilly tribal belt of Western India.
- 2) Long coastal tract of Gujarat and problematic areas.
- 3) Introduction of newly released varieties/ hybrids in horticultural crops.
- 4) Higher domestic and international demand due to rich source of anti-oxidants, nutrients and medicinal values of horticultural crops.
- 5) More adoption of precision farming technologies namely fertigation, high density



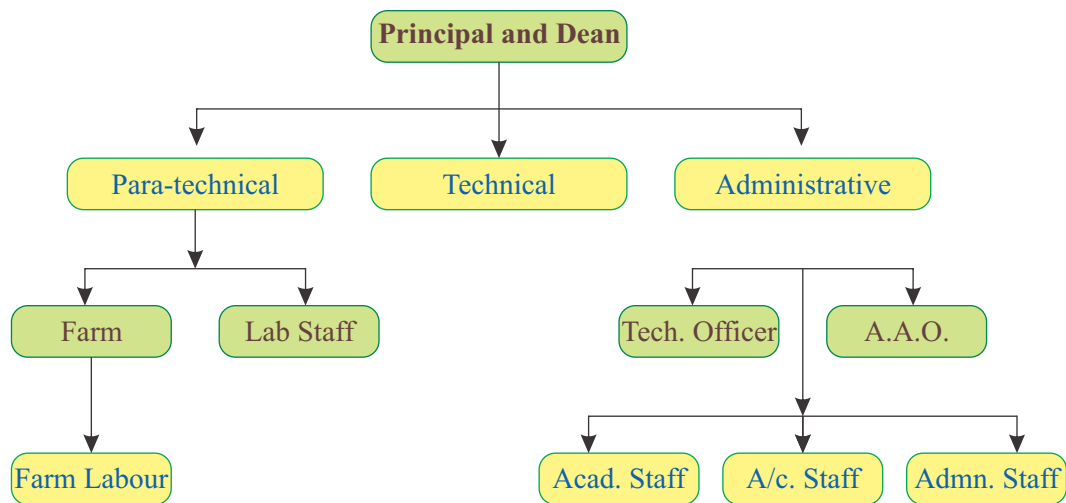


- plantation, protected cultivation for vegetable and flower crops, organic farming and rejuvenation of senile orchards.
- 6) Fruit crops based cropping systems viz., intercropping, mixed cropping, multistoreyed cropping.
  - 7) The central government has declared several Agri- Export Zones (AEZ) in Western India for different fruit and vegetable crops.
  - 8) Huge production of fruits and vegetables in the South Gujarat.
  - 9) Linear increment in demand for value added products.
  - 10) Value addition and their by-product utilization is the emerging field to augment the income of the farmers.
  - 11) Agility and empowerment of young research team in Post Harvest Management.
  - 12) Higher demand for nutraceutical and functional foods due to increased health concern.
  - 13) Subsidies are being provided by Government for setting up of protected structures and processing Units.
  - 14) Export of processed horticultural commodities.
  - 15) Increasing intake of students for generation of human resources in field of horticulture.

## **Threats**

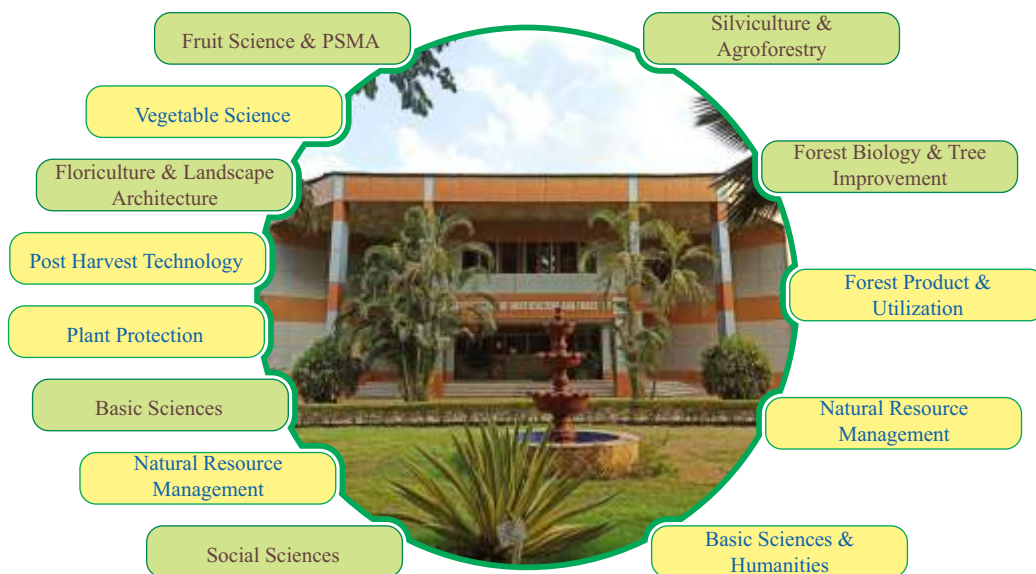
- 1) Highly perishable in nature of horticultural products.
- 2) Static productivity due to injudicious use of fertilizers, old orchards, pest/ disease problems and lack of knowledge.
- 3) Erratic and irregular rainfall.
- 4) Effect on flowering and fruiting due to climate change.
- 5) Unstable market assurance and gluts.
- 6) Lack of export policy.
- 7) Day by day increasing trend of artificial Chinese flowers in decoration.
- 8) Heavy monetary loss due to high post harvest losses.
- 9) High dose of preservatives in the processed products which are hazardous for human health.
- 10) Unavailability of skilled and trained manpower for maintenance of processing plants.

# Administrative Structure



## DEPTS. IN HORTICULTURE FACULTY

## DEPTS. IN FORESTRY FACULTY





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Principal & Dean

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## Academic Programmes

	Programmes	Duration	Intake Capacity
UG	B.Sc. (Hons.) Horti.	8 Semesters	70 (60 + 10 ICAR)
PG	M.Sc. (Horti.)	4 Semesters	58
	Ph.D. (Horti.)	6 Semesters	14

### Departments of the College

1. Department of Fruit Science
2. Department of Vegetable Science
3. Department of Floriculture and Landscape Architecture
4. Department of Post Harvest Technology
5. Department of Plant Protection (Entomology and Pathology)
6. Department of Basic Sciences (Biochemistry, Crop Physiology, Biotechnology & Genetics and Plant Breeding)
7. Department of Natural Resource Management (Soil Science and Agricultural Chemistry, Agronomy, Agricultural Meteorology, Agricultural Engineering and Organic Farming Cell)
8. Department of Social Sciences (Agricultural Extension, Agricultural Economics, Agricultural Statistics, Agri/Horticulture Business Management, English, Physical Education, Library Science)



### PG Programmes & Intake Capacity

S. N.	Programme	M.Sc. (Intake Capacity)	Ph.D. (Intake Capacity)
1.	Fruit Science	13	4
2.	Plantation, Spices, Medicinal & Aromatic Crops (PSMA)	14	-
3.	Vegetable Science	13	5
4.	Floriculture and Landscape Architecture	10	2
5.	Post Harvest Technology	3	1
6.	Horticultural Entomology	3	1
7.	Horticultural Pathology	2	1
	Total	58	14



# Department Profile: Horticulture

## DEPARTMENT OF FRUIT SCIENCE AND PSMA



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## B.Sc. (Hons.) Horti. Courses as per 4<sup>th</sup> Deans' Committee

S.N.	Course Code	Title	Credits	Semester
1.	FRT 1.1	Fundamentals of Horticulture	3 (2+1)	I
2.	FRT 2.2	Plant Propagation and Nursery Management	2 (1+1)	II
3.	FRT 2.3	Tropical and Subtropical Fruits	3 (2+1)	II
4.	FRT 3.4	Temperate Fruits	2 (1+1)	III
5.	FRT 3.5	Weed Management in Horticultural Crops	2 (1+1)	III
6.	FRT 3.6	Principles of Genetics and Cytogenetics	3 (2+1)	III
7.	FRT 4.7	Orchard Management	2 (1+1)	IV
8.	FRT 4.8	Plantation Crops	3 (2+1)	IV
9.	FRT 4.9	Breeding of Fruit and Plantation Crops	3 (2+1)	IV
10.	FRT 4.10	Principles of Plant Breeding	3 (2+1)	IV
11.	HWE 7.3.1	Orientation and Project Formulation	2 (0+2)	VII
12.	HWE 7.3.2	Propagation and Production of Fruit Plants	6 (0+6)	VII
13.	HWE 7.3.3	Packaging and Marketing of Fruit Plants	2 (0+2)	VII
14.	HWE 8.2	University Farms (JAU) and private horticultural field visit of Saurashtra region	4 (0+4)	VIII

## B.Sc. (Hons.) Horti. Courses as per 5<sup>th</sup> Deans' Committee

S.N.	Course Code	Title	Credits	Semester
1.	FRT 1.1	Fundamentals of Horticulture	3 (2+1)	I
2.	FRT 2.2	Plant Propagation and Nursery Management	2 (1+1)	II
3.	FRT 3.3	Temperate Fruit Crops	2 (1+1)	III
4.	FRT 4.4	Tropical and Subtropical Fruits	3 (2+1)	IV
5.	FRT 4.5	Plantation Crops	3 (2+1)	IV
6.	FRT 4.6	Breeding of Fruit and Plantation Crops	3 (2+1)	IV
7.	FRT 5.7	Orchard and Estate Management	2 (1+1)	V
8.	FRT 5.8	Dry Land Horticulture	2 (1+1)	V



### STUDENT READY-I: Experiential Learning Programme

9.	HWE 7.2	Commercial Production of Horticultural Planting Materials	10 (0+10)	VII
	HWE 7.2.1	Propagation and production of propagules	6 (0+6)	VII
	HWE 7.2.2	Packing and Marketing of Planting materials	4 (0+4)	VII

### STUDENT READY-II: Rural Horticultural Work Experience

10.	RHWE 8.3	University farms (JAU) and Visit to Horticulture Based Industries of Saurashtra Region	4 (0+4)	VIII
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### PG Courses (Fruit Science)

S.N.	Course Code	Title	Credits
1.	FSC 501*	Tropical and Dry land Fruit Production	3 (2+1)
2.	FSC 502*	Subtropical and Temperate Fruit Production	3 (2+1)
3.	FSC 503*	Biodiversity and Conservation of Fruit Crops	3 (2+1)
4.	FSC 504	Canopy Management in Fruit Crops	2 (1+1)
5.	FSC 505	Propagation and Nursery Management for Fruit Crops	3 (2+1)
6.	FSC 506*	Breeding of Fruit Crops	3 (2+1)
7.	FSC 507	Post harvest Technology for Fruit Crops	3 (2+1)
8.	FSC 508	Growth and Development of Horticultural Crops	3 (2+1)
9.	FSC 509	Biotechnology of Horticultural Crops	3 (2+1)
10.	FSC 510	Organic Horticulture	2 (1+1)
11.	FSC 511	Protected Fruit Culture	3 (2+1)
12.	FSC 512	GAP for Horticultural Crops	1 (1+0)
13.	FSC 513	Climate Management in Horticultural Production	1 (1+0)
14.	FSC 591	Master's Seminar	1 (1+0)
15.	FSC 599	Master's Research	20 (0+20)
16.	FSC 601**	Advances in Breeding of Fruit Crops	3 (2+1)



17.	FSC 602**	Advances in Production of Fruit Crops	3 (2+1)
18.	FSC 603	Advances in Growth Regulation of Fruit Crops	3 (2+1)
19.	FSC 604	Genomics and Bioinformatics in Horticulture	3 (2+1)
20.	FSC 605	Biotic and Abiotic Stress Management in Horticultural Crops	3 (2+1)
21.	FSC 606	Systematics of Fruit Crops	3 (2+1)
22.	FSC 691	Doctoral Seminar I	1 (1+0)
23.	FSC 692	Doctoral Seminar II	1 (1+0)
24.	FSC 699	Doctoral Research	45 (0+45)

### PG Courses (PSMA)

S. N.	Course Code	Title	Credits
1.	PSMA 501*	Production of Plantation Crops	3 (2+1)
2.	PSMA 502*	Production Technology of Spice Crops	3 (2+1)
3.	PSMA 503*	Production technology of Medicinal and Aromatic Plants	3 (2+1)
4.	PSMA 504*	Breeding of Plantation Crops and Spices	3 (2+1)
5.	PSMA 505*	Breeding of Medicinal and Aromatic Crops	3 (2+1)
6.	PSMA 506*	Processing of PSMA Plants	3 (2+1)
7.	PSMA 507	Organic Spice and Plantation Crop Production Technology	3 (2+1)
8.	PSMA 508	Underexploited Medicinal and Aromatic Plants	2 (1+1)
9.	PSMA 591	Master's Seminar	1 (1+0)
10.	PSMA 599	Master's Research	20 (0+20)

\* Compulsory course at M.Sc. level

\*\* Compulsory course at Ph.D. level



## Department of Vegetable Science



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### B.Sc. (Hons.) Horti. Courses as per 4<sup>th</sup> Deans' Committee

S. N.	Course Code	Title	Credits	Semester
1.	VEG. 2.1	Tropical and Sub-tropical Vegetables	3 (2+1)	II
2.	VEG. 3.2	Temperate Vegetables	2 (1+1)	III
3.	VEG. 4.3	Spices and Condiments	3 (2+1)	IV
4.	VEG. 5.4	Breeding of Vegetable, Tuber and Spice Crops	2 (1+1)	V
5.	VEG. 5.5	Potato and Tuber crops	2 (1+1)	V
6.	VEG. 6.6	Seed Production of Vegetable, Tuber and Spice Crops	3 (2+1)	VI
7.	HWE:7.2.1	Orientation, Project Formulation, Lay out and Planning	2 (0+2)	VII
8.	HWE:7.2.2	Production of Hi-Valued Vegetable Crops	6 (0+6)	VII
9.	HWE:7.2.3	Packaging and Marketing of Vegetables	2 (0+2)	VII
10.	HWE: 7.4.1	Orientation, Project Formulation, Lay out and Planning	2 (0+2)	VII
11.	HWE: 7.4.2	Production of Vegetable Seedlings	6 (0+6)	VII
12.	HWE: 7.4.3	Packaging and Marketing of Vegetable Seedlings	2 (0+2)	VII
13.	HWE. 8.3	University farms (AAU) and Private Horticultural Field visit of Middle Gujarat region	4 (0+4)	VIII



## B.Sc. (Hons.) Horti. Courses as per 5<sup>th</sup> Deans' Committee

S. N.	Course Code	Title	Credits	Semester
1.	VEG 1.1	Tropical and Subtropical Vegetables	3 (2+1)	I
2.	VEG 3.2	Temperate Vegetable Crops	2 (1+1)	III
3.	VEG 3.3	Precision Farming and Protected Cultivation	3 (2+1)	III
4.	VEG 4.4	Spices and Condiments	3 (2+1)	IV
5.	VEG 5.5	Potato and Tuber crops	2 (1+1)	V
6.	VEG 5.6	Breeding of Vegetable, Tuber and Spice Crops	3 (2+1)	V
7.	VEG 6.7	Seed Production of Vegetable, Tuber and Spice Crops	3 (2+1)	VI

### STUDENT READY-I: Experiential Learning Programme

8.	HWE 7.1	Protected Cultivation of High Valued Horticultural Crops	10 (0+10)	VII
	HWE: 7.1.1	Production of High Valued Crops	6 (0+6)	
	HWE:7.1.2	Packaging and Marketing of High Valued Horticultural Crops	4 (0+4)	
9.	HWE 7.2	Commercial Production of Horticultural Planting Materials	10 (0+10)	VII
	HWE: 7.2.1	Propagation and Production of Propagules	6 (0+6)	
	HWE: 7.2.2	Packaging and Marketing of Planting Materials	4 (0+4)	

### STUDENT READY-II: Rural Horticultural Work Experience

10.	HWE. 8.4 (RHWE)	University Farms (AAU) and Visit to Horticulture Based Industries of Middle Gujarat Region	4 (0+4)	VIII
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## PG Courses

S. N.	Course Code	Title	Credits
1.	VSC 501*	Production Technology of Cool Season Vegetable Crops	3 (2+1)
2.	VSC 502*	Production Technology of Warm Season Vegetable Crops	3 (2+1)
3.	VSC 503*	Breeding of Vegetable Crops	3 (2+1)
4.	VSC 504*	Growth And Development of Vegetable Crops	3 (2+1)
5.	VSC 505	Seed Production Technology of Vegetable Crops	3 (2+1)
6.	VSC 506	Systematics of Vegetable Crops	2 (1+1)
7.	VSC 507	Production Technology of Underexploited Vegetable Crops	2 (1+1)
8.	VSC 508	Organic Vegetable Production Technology	2 (1+1)
9.	VSC 509	Fundamentals of Processing of Vegetables	3 (2+1)
10.	VSC 591	Master's Seminar	1 (1+0)
11.	VSC 599	Master's Research	20 (0+20)
12.	VSC 601**	Advances in Vegetable Production	3 (2+1)
13.	VSC 602**	Advances in Breeding of Vegetable Crops	3 (2+1)
14.	VSC 603**	Protected Cultivation of Vegetable Crops	2 (1+1)
15.	VSC 604**	Biotechnology in Vegetable Crops	3 (2+1)
16.	VSC 605	Seed Certification, Processing And Storage of Vegetable Crops	3 (2+1)
17.	VSC 606	Abiotic Stress Management in Vegetable Crops	3 (2+1)
18.	VSC 691	Doctoral Seminar - I	1 (1+0)
19.	VSC 692	Doctoral Seminar - II	1 (1+0)
20.	VSC 699	Doctoral Research	45 (0+45)

## Department of Floriculture and Landscape Architecture



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### **B.Sc. (Hons.) Horti. Courses as per 4<sup>th</sup> Deans' Committee**

S. N.	Course Code	Title	Credits	Semester
1.	FLR 1.1	Ornamental horticulture	3 (2+1)	I
2.	FLR 3.1	Commercial floriculture	3 (2+1)	III
3.	FLR4.1	Principles of landscape gardening	1 (0+1)	IV
4.	FLR 6.1	Breeding and seed production of ornamental crops	3 (2+1)	VI
5.	HWE 7.1.1	Orientation, Project Formulation, Lay out and Planning	2 (0+2)	VII
6.	HWE 7.1.2	Production of Hi-valued Flower Crops	6 (0+6)	VII
7.	HWE7.1.3	Packaging and Marketing of Flowers	2 (0+2)	VII

### **B.Sc. (Hons.) Horti. Courses as per 5<sup>th</sup> Deans' Committee**

S. N.	Course Code	Title	Credits	Semester
1.	FLA 2.1	Ornamental Horticulture	2 (1+1)	II
2.	FLA 3.2	Commercial Floriculture	3 (2+1)	III
3.	FLA 4.3	Principles of Landscape Architecture	2 (1+1)	IV
4.	FLA 6.4	Breeding and Seed Production of Flower and Ornamental Crops	3 (2+1)	VI
5.	FLA 6.5	Medicinal and Aromatic Crops	3 (2+1)	VI

### STUDENT READY-I: Experiential Learning Programme

6.	HWE 7.1	Protected Cultivation of High Valued Horticultural Crops	10 (0+10)	VII
	HWE 7.1.1	Production of High Valued Crops	6 (0+6)	
	HWE 7.1.2	Packaging and Marketing of High Valued Horticultural Crops	4 (0+4)	

### STUDENT READY-II: Rural Horticultural Work Experience

7.	HWE 8.5 (RHWE)	University Farms (SDAU) and Visit to Horticulture Based Industries of North Gujarat Region	4 (0+4)	VIII
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### PG Courses

S. N.	Course Code	Title	Credits
1.	FLA.501*	Breeding of flower crops and ornamental plants	3 (2+1)
2.	FLA.502*	Production technology of cut flowers	3 (2+1)
3.	FLA.503*	Production technology of loose flowers	3 (2+1)
4.	FLA.504*	Landscaping and ornamental gardening	3 (2+1)
5.	FLA.505	Protected floriculture	3 (2+1)
6.	FLA.506	Value addition in flowers	3 (2+1)
7.	FLA.507*	Turfing and turf management	3 (2+1)
8.	FLA.508	CAD for outdoor and Indoorscaping	3 (2+1)
9.	FLA.591	Master's Seminar	1 (1+0)
10.	FLA 599	Master's Research	20 (0+20)
11.	FLA 601**	Advances in breeding of flower crops	3 (2+1)
12.	FLA 602**	Advances in flower production technology	3 (2+1)
13.	FLA 603	Advances in protected and precision floriculture	2 (1+1)
14.	FLA 604**	Advances in landscape architecture	3 (1+2)
15.	FLA 605	Advances in biochemistry and biotechnology of flowers	3 (2+1)
16.	FLA.691	Doctoral Seminar-I	1 (1+0)
17.	FLA. 692	Doctoral Seminar-II	1 (1+0)
18.	FLA 699	Doctoral Research	45 (0+45)





## Department of Post Harvest Technology



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## B.Sc. (Hons.) Horti. Courses as per 4<sup>th</sup> Deans' Committee

S. N.	Course Code	Course title	Credits	Semester
1.	PHT 2.1	Food science and technology	2 (1+1)	II
2.	PHT 5.2	Post harvest management of horticultural crops	3 (1+2)	V
3.	PHT 6.3	Processing of horticultural crops	3 (2+1)	VI
4.	HWE 7.5.1	Orientation, project formulation and planning for processing of fruits	2 (0+2)	VII
5.	HWE 7.5.2	Preparation and evaluation of processed products of fruits	6 (0+6)	VII
6.	HWE 7.5.3	Economics and marketing of processed products of fruits	2 (0+2)	VII
7.	HWE 7.6.1	Orientation, project formulation and planning for processing of vegetables	2 (0+2)	VII
8.	HWE 7.6.2	Preparation and evaluation of processed products of vegetables	6 (0+6)	VII
9.	HWE 7.6.3	Economics and marketing of processed products of vegetables	2 (0+2)	VII
10.	HWE 8.5 (RHWE)	University farm (NAU) and private horticultural field visit of South Gujarat region	5 (0+5)	VIII

## B.Sc. (Hons.) Horti. Courses as per 5<sup>th</sup> Deans' Committee

S. N.	Course Code	Title	Credits	Semester
1.	PHT 1.1	Fundamentals of Food and Nutrition	2 (1+1)	I
2.	PHT 5.2	Postharvest Management of Horticultural Crops	3 (2+1)	V
3.	PHT 6.3	Processing of Horticultural Crops	3 (1+2)	VI



### STUDENT READY-I: Experiential Learning Programme

4.	HWE 7.3	Post Harvest Handling and Value Addition in Horticultural Crops	10 (0+10)	VII
	HWE 7.3.1	Preparation and Evaluation of Processed Products	6 (0+6)	
	HWE 7.3.2	Packing and Marketing of Processed Products	4 (0+4)	

### STUDENT READY-II: Rural Horticultural Work Experience

5.	RHWE 8.6	University Farms (NAU) and Visit to Horticulture Based Industries of South Gujarat Region	4 (0+4)	VIII
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## PG Courses

S. N.	Course Code	Title	Credits
1.	PHT 501*	Principles of post harvest management for perishable horticultural produce	2 (1+1)
2.	PHT 502*	Fundamentals of processing of fruits and vegetables.	2 (1+1)
3.	PHT 503*	Laboratory analysis and quality assurance techniques of fresh and processed horticultural produce	2 (1+1)
4.	PHT 504*	Techniques for sensory analysis for processed produce	2 (1+1)
5.	PHT 505*	Pre-harvest practices affecting post harvest life of perishable horticultural produce	2 (2+0)
6.	PHT 506	Principles of post harvest management of spices and plantation crops.	2 (1+1)
7.	PHT 507	Principles of post harvest management of ornamental, medicinal and aromatic plants	2 (1+1)
8.	PHT 508	Processing of plantation crops, spices, medicinal and aromatic plants	2 (1+1)
9.	PHT 509	Packaging of perishable horticultural produce	2 (1+1)
10.	PHT 510	Packaging technology of processed horticultural produce	3 (2+1)
11.	PHT511	Process engineering of horticultural crops	3 (2+1)

12.	PHT 512*	In-plant training (compulsory course)	NC (Non-credit)
13.	PHT 591	Master's Seminar	1(1+0)
14.	PHT 599	Master's Research	20 (0+20)
15.	PHT 601**	Advances in post harvest management of fresh horticultural produce	2 (2+0)
16.	PHT 602**	Advances in laboratory techniques and research methodology in post harvest technology	3 (1+2)
17.	PHT 603**	Advances in processing technology of horticultural crops	3 (3+0)
18.	PHT 604	Packaging house operations and transportation of fresh horticultural produce	2 (2+0)
19.	PHT 605	Commercial aspects of post harvest technology of horticultural produce	2 (2+0)
20.	PHT 606	Dehydration technology of horticultural produce	3 (2+1)
21.	PHT 607	Freezing technology of horticultural produce	3 (2+1)
22.	PHT 608	Fruit and vegetable fermentation technology	3 (2+1)
23.	PHT 609	Waste management from horticulture processing industries	3 (2+1)
24.	PHT 691	Doctoral Seminar I	1 (1+0)
25.	PHT 692	Doctoral Seminar II	1 (1+0)
26.	PHT 699	Doctoral Research	35 (0+35)



## Department of Plant Protection



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## B.Sc. (Hons.) Horti. Courses as per 4<sup>th</sup> Deans' Committee (Entomology)

S.N.	Course Code	Title	Credits	Semester
1.	PPT 3.2	Fundamentals of Entomology	3 (2+1)	III
2.	PPT 4.5	Insect Pests of Fruit, Plantation, Medicinal and Aromatic Crops	3 (2+1)	IV
3.	PPT 6.8	Apiculture	1 (0 +1)	VI
4.	PPT 6.9	Insect Pests of Vegetable, Ornamental and Spice Crops	3 (2+1)	VI

## B.Sc. (Hons.) Horti. Courses as per 4<sup>th</sup> Deans' Committee (Pathology)

S.N.	Course Code	Title	Credits	Semester
1.	B.Sc.1.5	Introductory Microbiology	2 (1+1)	I
2.	PPT 3.1	Fundamentals of Plant Pathology	3 (2+1)	III
3.	PPT 3.3	Nematode Pest of Horticultural Crops and their Management	2 (1+1)	III
4.	PPT 4.4	Mushroom Culture	1 (0+1)	IV
5.	PPT 5.6	Diseases of Fruit, Plantation and Medicinal and Aromatic Crops	3 (2+1)	V
6.	PPT 5.7	Diseases of Vegetable, Ornamental and Spice Crops	3 (2+1)	V

## B.Sc. (Hons.) Horti. Courses as per 5<sup>th</sup> Deans' Committee (Plant Protection)

S. N.	Course Code	Title	Credits	Semester
1.	PPT 2.1	Fundamentals of Plant Pathology	3 (2+1)	II
2.	PPT 3.2	Fundamentals of Entomology	3 (2+1)	III
3.	PPT 3.3	Nematode Pests of Horticultural Crops and their Management	2 (1+1)	III
4.	PPT 4.4	Diseases of Fruit, Plantation and Medicinal and Aromatic Crops	3 (2+1)	IV



5.	PPT 4.5	Insect Pests of Fruit, Plantation, Medicinal and Aromatic Crops	3 (2+1)	IV
6.	PPT 5.6	Diseases of Vegetable, Ornamental and Spice Crops	3 (2+1)	V
7.	PPT 5.7	Insect Pests of Vegetable, Ornamental and Spice Crops	3 (2+1)	V
8.	PPT 6.8	Apiculture, Sericulture and Lac Culture	2 (1+1)	VI

### PG Courses (Horticultural Entomology)

S. N.	Course Code	Title	Credits
1.	FOR 507	Forest Protection	2 (1+1)
2.	PT 524	Management of Insect-Pests and Diseases	2 (1+1)
3.	HENT 501*	Insect Morphology	2 (1+1)
4.	HENT 502*	Insect Anatomy, Physiology and Nutrition	3 (2+1)
5.	HENT 503*	Principles of Taxonomy	2 (2+0)
6.	HENT 504	Classification of insects	3 (2+1)
7.	HENT 505*	Insect Ecology	2 (1+1)
8.	HENT 506	Insect Pathology	2 (1+1)
9.	HENT507*	Biological control of crop pests and weeds	2 (1+1)
10.	HENT 508*	Toxicology of Insecticides	3 (2+1)
11.	HENT 509	Plant Resistance to Insects	2 (1+1)
12.	HENT 510*	Principles of Integrated Pest Management	2 (1+1)
13.	HENT 511*	Pests of Vegetable and Ornamental crops	3 (2+1)
14.	FENT 511 *	Forest Entomology	3 (2+1)
15.	HENT 512*	Pests of Fruit and Plantation crops	2 (1+1)
16.	HENT 513 *	Pests of Medicinal, Aromatic, Condiments & Spice crops	2 (1+1)
17.	HENT 514	Insect Vectors of Plant Viruses and other Pathogens	2 (1+1)
18.	HENT 515	General Acarology	2 (1+1)
19.	HENT 516	Soil Arthropods and their Management	2 (1+1)
20.	HENT 517	Vertebrate Pest Management	2 (1+1)



21.	HENT 518	Techniques in Plant Protection	1 (0+1)
22.	HENT 519	Commercial Entomology	2 (1+1)
23.	HENT 520	Plant Quarantine	2 (2+0)
24.	HENT 591	Masters Seminar	1 (0+1)
25.	HENT 599	Masters Research	20 (0+20)
26.	HENT 601	Advanced Insect Systematics	3 (1+2)
27.	HENT602	Immature Stages of Insects	2 (1+1)
28.	HENT 603	Advanced Insect Physiology	2 (2+0)
29.	HENT604	Advanced Insect Ecology	2 (1+1)
30.	HENT 605	Insect Behaviour	2 (1+1)
31.	HENT606	Recent Trends in Biological Control	2 (1+1)
32.	HENT607	Advanced Insecticide Toxicology	3 (2+1)
33.	HENT608	Advanced Host plant Resistance	2 (1+1)
34.	HENT609	Advanced Acarology	2 (1+1)
35.	HENT 610**	Agricultural Ornithology	2 (1+1)
36.	HENT 611**	Molecular Approaches in Entomological Research	2 (1+1)
37.	HENT 612**	Advanced Integrated Pest management	2 (2+0)
38.	HENT 613	Plant Biosecurity and Biosafety	2 (2+0)
39.	HENT 614	Forest Entomology	2 (1+1)
40.	HENT 615**	Advances in Pests of Fruit and Plantation crops	3 (2+1)
41.	HENT 616**	Advances in Pests of Vegetable crops	3 (2+1)
42.	HENT 617**	Advances in Pests of Ornamental, Medicinal & Aromatic Plants	3 (2+1)
43.	FENT 614**	Advances in Forest Entomology	3 (2+1)
44.	FENT 615**	Pest of Forest Seeds	2 (1+1)
45.	FENT616**	Pests of Felled trees and stored timbers	2 (1+1)
46.	FENT 617**	Research techniques in Forest Entomology	1 (1+0)
47.	HENT 691	Doctoral Seminar – I	1 (1+0)
48.	HENT 692	Doctoral Seminar- II	1 (1+0)
49.	HENT 699	Doctoral Research	45 (0+45)



## PG Courses (Horticultural Pathology)

S. N.	Course Code	Title	Credits
1	HORTI. PATH 501*	Mycology	3 (2+1)
2	HORTI. PATH 502*	Plant Virology	3 (2+1)
3	HORTI. PATH 503*	Plant Bacteriology	3 (2+1)
4	HORTI. PATH 504*	Principles of Plant Pathology	3 (3+0)
5	HORTI. PATH 505*	Detection and Diagnosis of Plant Diseases	2 (0+2)
6	HORTI. PATH 506	Principles of Plant Disease Management	3 (2+1)
7	HORTI. PATH 507	Diseases of Field and Medicinal Crops	3 (2+1)
8	HORTI. PATH 508	Diseases of Fruits, Plantation and Ornamental Crops	3 (2+1)
9	HORTI. PATH 509	Diseases of Vegetable and Spices Crops	3 (2+1)
10	HORTI. PATH 510	Seed Health Technology	3 (2+1)
11	HORTI. PATH 511	Chemicals in Plant Disease Management	3 (2+1)
12	HORTI. PATH 512	Ecology of Soil-borne Plant Pathogens	3 (2+1)
13	HORTI. PATH 591	Master's Seminar	1 (1+0)
14	HORTI. PATH 599	Master's Research	20 (0+20)
15	HORTI. PATH 601	Advanced Mycology	3 (2+1)
16	HORTI. PATH 602	Advanced Virology	3 (2+1)
17	HORTI. PATH 603	Advanced Bacteriology	3 (2+1)
18	HORTI. PATH 604**	Molecular Basis of Host-Pathogen Interaction	3 (2+1)
19	HORTI. PATH 605	Principles and Procedures of Certification	1 (1+0)
20	HORTI. PATH 606	Plant Biosecurity and Biosafety	2 (2+0)
21	HORTI. PATH 691	Doctoral Seminar I	1 (1+0)
22	HORTI. PATH 692	Doctoral Seminar II	1 (1+0)
23	HORTI. PATH 699	Doctoral Research	45 (0+45)

## Department of Basic Sciences



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### B.Sc. (Hons.) Horti. Courses as per 4<sup>th</sup> Deans' Committee

S. N.	Course Code	Title	Credit	Semester
1.	BSC 1.2	Introductory Crop Physiology	2 (1+1)	I
2.	BSC 1.5	Introductory Microbiology	2 (1+1)	I
3.	BSC 1.6	Introductory Botany	3 (2+1)	I
4.	BSC 2.8	Growth and Development of Horticultural Crops	2 (1+1)	II
5.	BSC 5.10	Elementary Plant Biochemistry & Biotechnology	3 (2+1)	V



## B.Sc. (Hons.) Horti. Courses as per 5<sup>th</sup> Deans' Committee

S. N.	Course Code	Title	Credit	Semester
1	BSC 1.1	Elementary Plant Biochemistry	2 (1+1)	I
2	BSC 1.2	Principles of Genetics and Cytogenetics	3 (2+1)	I
3	BSC 1.3	Introductory Microbiology	2 (1+1)	I
4	BSC 2.4	Introductory Crop Physiology	2 (1+1)	II
5	BSC 2.5	Principles of Plant Breeding	3 (2+1)	II
6	BSC 3.6	Elementary Plant Biotechnology	2 (1+1)	III
7	BSC 3.7	Growth and Development of Horticultural Crops	2 (1+1)	III



## Department of Social Sciences



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## B.Sc. (Hons.) Horti. Courses as per 4<sup>th</sup> Deans' Committee

S.N.	Course Code	Title	Credits	Semester
<b>A Agriculture Economics</b>				
1.	BSC 1.3	Introductory Economics	2(2+0)	I
2.	BSH 1.3	Introductory Forest Economics	2(2+0)	I
3.	NRMF 5.2/5.9	Forest Business Management	2 (1+1)	V
4.	NRMF 5.3/5.10	Principle of Forest Economics, Project Planning & Evaluation	2 (1+1)	V
5.	BSC6.1/6.11	Horti Business management	2 (2+0)	VI
6.	NRMF6.2/6.12	Marketing & Trade of Forest Produce	3 (2+1)	VI
<b>B Agricultural Extension Education</b>				
1.	BSC 4.9	Fundamental of Extension Education	2 (1+1)	IV
2.	BSC 6.12	Entrepreneurship Development and Communication Skill	2 (1+1)	VI
3.	BSH 6.14	Entrepreneurship Development and Communication Skill	2 (1+1)	VI
4.	BSH 4.9	Fundamental of Extension Education	2 (1+1)	IV
5.	BSH 3.8	Forest Tribology and anthropology	2 (2+0)	III
<b>C Agricultural Statistics</b>				
1.	BSC 1.1	Computer application	2 (1+1)	I
2.	BSH 1.1	Computer Application	2 (1+1)	I
3.	BSC 2.7	Elementary Statistics	3 (2+1)	II
4.	BSH 2.7	Elementary Statistics	3 (2+1)	II
<b>D English</b>				
1.	BSC.1.4	Structural Grammar and Spoken English	2 (1+1)	I
2.	BSH.1.4	Structural Grammar and Spoken English	2 (1+1)	I
3.	BSC.6.2	Entrepreneurship and Communication Skills	2 (1+1)	VI
4.	BSH.6.1	Entrepreneurship and Communication Skills	2 (1+1)	VI
5.	NCC	--	1 (0+1)	I, II, III



## B.Sc. (Hons.) Horti. Courses as per 5<sup>th</sup> Deans' Committee

S. N.	Course Code	Title	Credit	Semester
1.	SSC 1.1	Information and Communication Technology	2 (1+1)	I
2.	SSC 1.2	Economics and Marketing	3 (2+1)	I
3.	SSC 2.4	Elementary Statistics and Computer Application	3 (2+1)	II
4.	SSC 2.5	Communication Skills and Personality Development	2 (1+1)	II
5.	SSC 2.6	NSS/NCC/Physical Education and Yoga Practices	1(0+1)NC	II
6.	SSC 4.3	NSS/NCC/Physical Education and Yoga Practices	1(0+1)NC	IV
7.	SSC 5.7	Fundamentals of Extension Education	2 (1+1)	V
8.	SSC 6.8	Horti-Business Management	2 (2+0)	VI
9.	SSC 6.9	Entrepreneurship Development and Business Management	2 (1+1)	VI





## Department of Natural Resource Management



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## B.Sc. (Hons.) Horti. Courses as per 5<sup>th</sup> Deans' Committee

S. N.	Course Code	Title	Credits	Semester
1.	NRMH 1.1	Fundamentals of Soil Science	3 (2+1)	I
2.	NRMH 2.2	Soil Fertility and Nutrient Management	2 (1+1)	II
3.	NRMH 2.3	Water Management in Horticultural Crops	2 (1+1)	II
4.	NRMH 2.4	Agro-meteorology and Climate Change	2 (1+1)	II
5.	NRMH 3.5	Organic Farming	2 (1+1)	III
6.	NRMH 4.6	Farm Power and Machinery	2 (1+1)	IV
7.	NRMH 4.7	Soil, Water and Plant Analysis	2 (1+1)	IV
8.	NRMH 5.8	Weed Management in Horticultural Crops	2 (1+1)	V
9.	NRMH 6.9	Introduction to Major Field Crops	2 (1+1)	VI
10.	NRMH 6.10	Introductory Agroforestry	2 (1+1)	VI
11.	NRMH 6.11	Environmental Studies and Disaster Management	3 (2+1)	VI



# College Profile-Forestry

## GENESIS

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 the receipt of fund from ICFRE, Dehradun for the construction of College and Hostel buildings a separate College of Forestry was established. Meanwhile, as per the recommendations of IV Dean's committee of ICAR, 31 teaching faculties were appointed in the College of Forestry during 2010. 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 upto March 31, 2021. Similarly, ICFRE, Dehradun has also accredited this college for a period of five years with A\* rating from 22<sup>nd</sup> June. 2017 to 21<sup>st</sup> June. 2022.

## GOALS AND OBJECTIVES

### Goals

- ◆ To prepare trained manpower in Forestry Sector
- ◆ To strengthen research and extension activities in Forestry

### Objectives

- ◆ Education in Forestry leading to B.Sc., M.Sc. and Ph.D. degrees
- ◆ To generate new technologies through research so as to sustain the resources against changes caused by anthropogenic factors
- ◆ Transfer state of art technologies in Forestry sector to the stakeholders

## Departments of the College

1. Silviculture and Agroforestry
2. Forest Biology and Tree Improvement
3. Forest Products Utilization
4. Natural Resource Management
5. Basic Sciences and Humanities



## ACADEMIC PROGRAMMES

	Programmes	Duration	Intake Capacity
UG	B.Sc. (Forestry)	8 Semesters	66 (57 + 09 ICAR)
PG	M.Sc. (Forestry)	4 Semesters	29
	Ph.D. (Forestry)	6 Semesters	7

### PG Programmes

S. N.	Programme	M.Sc. (Intake Capacity)	Ph.D. (Intake Capacity)
1.	Silviculture and Agroforestry	9	3
2.	Forest Biology and Tree Improvement	9	2
3.	Forest Products and Utilization	6	1
4.	Natural Resource Management	3	1
5.	Wildlife Sciences	2	0
	Total	29	7

### B.Sc. (Hons.) Forestry Courses as per 5<sup>th</sup> Deans' Committee

S.N.	Course Code	Title	Credits	Semester
1.	SAF 1.1	Introduction to Forestry	2 (2+0)	I
2.	SAF 1.2	Introduction to Agronomy and Horticulture	3 (2+1)	I
3.	NRM 1.1	Fundamentals of Geology & Soil Science	3 (2+1)	I
4.	NRM 1.2	Environmental Studies and Disaster Management	3 (2+1)	I
5.	BSH 1.1	Information & Communication Technology	2 (1+1)	I
6.	BSH 1.2	Introductory Botany	2 (1+1*)	I
7.	BSH 1.3	Communication Skills and Personality Development	2 (1+1)	I
8.	BSH 1.4	Plant Physiology	3 (2+1)	I
9.	NNP1.1	NCC/NSS	1 (0+1*)	I



10.	SAF 2.3	Principles of Silviculture	3 (2+1)	II
11.	FBT 2.1	Dendrology	3 (2+1)	II
12.	FPU 2.1	Wood Anatomy	2 (1+1)	II
13.	NRM 2.3	Forest Protection	3 (2+1)	II
14.	NRM 2.4	Soil Biology & Fertility	3 (2+1)	II
15.	BSH 2.5	Basic Mathematics	2 (2+0*)	II
16.	BSH 2.6	Plant Biochemistry	2 (1+1)	II
17.	BSH 2.7	Statistical Methods and Experimental Techniques	3 (2+1)	II
18.	BSH 2.8	Principles of Plant Cytology and Genetics	3 (2+1)	II
19.	NNP 2.2	NCC/NSS	1 (0+1*)	II
20.	SAF 3.4	Principles of Agroforestry	3 (2+1)	III
21.	SAF 3.5	Forest Mensuration	3 (2+1)	III
22.	SAF 3.6	Rangeland and livestock management	2 (1+1)	III
23.	FBT 3.2	Wildlife Biology	3 (2+1)	III
24.	FBT 3.3	Forest Ecology & Biodiversity Conservation	3 (2+1)	III
25.	FBT 3.4	Forest Genetics & Tree Improvement	3 (2+1)	III
26.	FBT 3.5	Forest Ecophysiology	2 (1+1)	III
27.	NRM 3.5	Forest Survey & Engineering	3 (2+1)	III
28.	NNP 3.3	NCC/NSS	1 (0+1*)	III
29.	SAF 4.7	Forest Inventory and Yield Prediction	2 (1+1)	IV
30.	SAF 4.8	Silviculture of Indian Trees	3 (2+1)	IV
31.	FBT 4.6	Ornithology & Herpetology	3 (2+1)	IV
32.	FBT 4.7	Seed Technology & Nursery Management	3 (2+1)	IV
33.	FPU 4.2	Wood Products & Utilization	3 (2+1)	IV
34.	FPU 4.3	Ethnobotany and MAPs	3 (2+1)	IV
35.	FPU 4.4	Logging and ergonomics	2 (1+1)	IV
36.	FPU 4.5	Non-Timber Forest Products	3 (2+1)	IV
37.	FRP 4.1	Study Tour of State Forest	1 (0+1*)	IV
38.	NNP 4.4	NCC/NSS	1 (0+1*)	IV
39.	SAF 5.9	Practices of Silviculture	3 (2+1)	V
40.	FPU 5.6	Wood Science and Technology	3 (2+1)	V



41.	NRM 5.6	Agrometeorology and Climate Change	3 (2+1)	V
42.	NRM 5.7	Forest Management	3 (2+1)	V
43.	NRM 5.8	Principles of Economics and Marketing	3 (2+1)	V
44.	NRM 5.9	Restoration of Degraded Lands	2 (1+1)	V
45.	FRP 5.2	Experiential Learning (Forest Nursery)	5 (0+5**)	V
46.	FRP 5.3	Experiential Learning (Apiculture)	5 (0+5**)	V
47.	NNP 5.5	NCC/NSS	1 (0+1)	V
48.	SAF 6.10	Forest Extension & Community Forestry	3 (2+1)	VI
49.	SAF 6.11	Recreation & Urban Forestry	2 (1+1)	VI
50.	SAF 6.12	Plantation Forestry	3 (2+1)	VI
51.	FPU 6.7	Marketing and Certification of Forest Products	2 (1+1)	VI
52.	NRM 6.10	Forest Laws, Legislation and Policies	2 (2+0)	VI
53.	NRM 6.11	Geomatics-Remote Sensing & GIS	2 (1+1)	VI
54.	NRM 6.12	Forest Hydrology and Watershed Management	3 (2+1)	VI
55.	BSH 6.9	Entrepreneurship Development and Business Management	2 (1+1)	VI
56.	FRP 6.4	Experiential Learning (Forest Nursery)	2 (0+5**)	VI
57.	FRP 6.5	Experiential Learning (Apiculture)	2 (0+5**)	VI
58.	NNP 6.6	NCC/NSS	1 (0+1*)	VI
59.	FRP 7.6	Forestry Work Experience	20 (0+20)	VII
60.	FRP 7.6.1	Attachment with forest department- 8 Weeks	10 (0+10)	VII
61.	FRP 7.6.2	Industry /NGO Attachment- 3 weeks	4 (0+4)	VII
62.	FRP 7.6.3	Socio-economic Surveys & Village Attachment- 2 weeks	3 (0+3)	VII
63.	FRP 7.6.4	Weapon Training and First-Aid Training -1 week	1 (0+1)	VII
64.	FRP 7.6.5	Report Writing & Presentation-1 week	2 (2+0)	VII
65.	FRP 7.7	All India Study Tour (3 weeks)	3 (0+3)	VII

\* Non Credit Courses (Non grade)

\*\* In ELP any one model is opted.



**RAWE / FORESTRY WORK EXPERIENCE PROGRAMME**  
**As per 4<sup>th</sup> Deans Committee**

1.	FWE 8.1	Educational Tour	3 (0+3)	VIII
2.	FWE 8.2	Study of North Gujarat Forest	4 (0+4)	VIII
3.	FWE 8.3	Study of Middle Gujarat Forest	4 (0+4)	VIII
4.	FWE 8.4	Study of Saurashtra Forest	4 (0+4)	VIII
5.	FWE 8.5	Study of South Gujarat Forest	5 (0+5)	VIII

**PG Courses**  
**M.Sc. Forestry**  
**Compulsory Core Courses for all the disciplines of Forestry**

S. N.	Course Code	Title	Credit
1.	FOR 501*	Silviculture	2 (2+0)
2.	FOR 502*	Forest Biometry	2 (1+1)
3.	FOR 503*	Forest Management	2 (2+0)
4.	FOR 504*	Forest Products - Chemistry and Industries	3 (2+1)
5.	FOR 505*	Forest Ecology and Biodiversity Conservation	3 (2+1)
6.	FOR 506*	Forest Resource Management and Economics	2 (1+1)
7.	FOR 507*	Forest Protection	2 (1+1)
8.	FOR 508*	Forest Policy and Laws and International Conventions	2 (2+0)
9.	FOR 509*	Tree Improvement	2 (1+1)
10.	FOR 510*	Forests and People	2 (2+0)
11.	FOR 591*	Master Seminar	1 (1+0)
12.	FOR 599*	Master Research	20 (0+20)



### Compulsory Supporting Courses for all the disciplines of Forestry

S.N.	Course Code	Title	Credit
1.	FOR 511*	Computer Application and Information Technology	1 (0+1)
2.	FOR 512*	Remote Sensing and Geographic Information System	2 (1+1)
3.	FOR 513*	General Statistical Methods and Research Methodology	2 (1+1)

### Ph.D. Forestry courses

#### Compulsory Core Courses for all the disciplines of Forestry

S. N.	Course Code	Title	Credit
1.	FOR 601*	Quantitative Silviculture	3 (2+1)
2.	FOR 602*	Advances in Tree Improvement	3 (2+1)
3.	FOR 603*	Advances in Wood and Non-Wood Forest Products	3 (3+0)
4.	FOR 604*	Advances in Economic Analysis in Forestry	2 (2+0)
5.	FOR 605*	Agroforestry Systems and Management	2 (1+1)
6.	FOR 606*	Forestry Interventions for Environment Amelioration	2 (1+1)
7.	FOR. 691*	Doctoral Seminar- I	1 (1+0)
8.	FOR. 692*	Doctoral Seminar- II	1 (1+0)
9.	FOR. 699*	Doctoral Research	45 (0+45)

#### Optional/Supporting courses for all the disciplines of Forestry

S.N.	Course Code	Title	Credit
1.	FOR 611	Operational Research in Forest Management	2 (1+1)
2.	FOR 612	Land Use Planning and Watershed Management	2 (2+0)
3.	FOR 613	Forest Ecological Modeling	2 (1+1)
4.	FOR 614	Advances in Forest Biometrics	2 (1+1)
5.	FOR 615	Climate Change and Forestry	2 (2+0)
6.	FOR 616	Information Technology in Forestry	2 (1+1)



# Department Profile: Forestry

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## PG Courses M.Sc. Forestry (Silviculture and Agroforestry)

S.N.	Course Code	Title	Credit
1.	SAF 521	Agroforestry Systems	3 (2+1)
2.	SAF 522	Soil and Water Management in Agroforestry	2 (1+1)
3.	SAF 523	Crops and Animals Production Management in Agroforestry	3 (2+1)
4.	SAF 524	Fruit Plants, Trees and Shrubs for Agroforestry	3 (2+1)
5.	SAF 525	Economics of Agroforestry Systems	3 (2+1)
6.	SAF 526	Rangeland and Pasture Management	2 (2+0)
7.	SAF 527	Seed Collection, Storage and Testing	3 (2+1)
8.	SAF 528	Modern Nursery Technology	2 (1+1)
9.	SAF 529	Nutrient and Weed Management in Nursery and Plantation	3 (2+1)
10.	SAF 530	Management of Insect-Pests and Diseases	2 (1+1)
11.	SAF 531	Energy Plantations and Bio-Fuels	2 (1+1)
12.	SAF 532	Plantation Forestry	3 (2+1)



## PG Courses Ph.D. Forestry (Silviculture and Agroforestry)

S.N.	Course Code	Title	Credit
1.	SAF 621	Advances in Silviculture	2 (1+1)
2.	SAF 622	Plantation Forest Productivity	2 (1+1)
3.	SAF 623	Forest Regeneration	2 (1+1)
4.	SAF 624	Ecology of Forest Farming	2 (2+0)
5.	SAF 625	Advances in Forest Soil Management	3 (2+1)
6.	SAF 626	Land Use Planning and Watershed Management	2 (2+0)
7.	SAF 627	Forest Seed Management	2 (1+1)
8.	SAF 628	Advances in Agroforestry Research and Management	2 (2+0)
9.	SAF 629	Productivity of Agroforestry Systems	3 (2+1)
10.	SAF 630	Land Use Planning and Watershed Management	2 (2+0)
11.	SAF 631	Advanced Agroforestry Management Analyses	3 (2+1)
12.	SAF 632	Advances in Soil and Water Management in Agroforestry	3 (2+1)





## Department of Forest Biology and Tree Improvement



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### PG Courses M.Sc. Forestry (Forest Biology and Tree Improvement)

S.N.	Course Code	Title	Credits
1.	FBT 521	Breeding Methods in Forest Trees	3 (2+1)
2.	FBT 522	Reproductive Biology of Forest Trees	3 (2+1)
3.	FBT 523	Tree Seed Orchards	3 (2+1)
4.	FBT 524	Quantitative Genetics in Forest Tree Breeding	3 (3+0)
5.	FBT 525	Forest Genetic Diversity and Conservation	3 (3+0)



6.	FBT 526	Biotechnology Approaches in Forestry	3 (2+1)
7.	FBT 527	Plant Tissue Culture	3 (2+1)
8.	FBT 528	Molecular Biology	3 (2+1)
9.	FBT 529	Principles and Techniques of Genetic Engineering	3 (2+1)
10.	FBT 530	Environmental Pollutants and Biotechnology	2 (2+0)

### PG Courses Ph.D. Forestry (Forest Biology and Tree Improvement)

S.N.	Course Code	Title	Credit
1.	FBT 621	Advances in Forest Genetics and Tree Breeding	2 (1+1)
2.	FBT 622	Advances in Quantitative Forest Genetics	3 (2+1)
3.	FBT 623	Advances in Forest Reproductive Biology	3 (2+1)
4.	FBT 624	Molecular Genetics of Forest Trees	3 (2+1)
5.	FBT 625	Genetics of Forest Ecosystems	2 (2+0)
6.	FBT 626	Advances in Forest Biotechnology	3 (2+1)
7.	FBT 627	Molecular Genetics and Gene Mapping in Forest Trees	3 (2+1)
8.	FBT 628	Intermediary Metabolisms	3 (2+1)
9.	FBT 629	Molecular Biochemistry	3 (2+1)
10.	FBT 630	Tree Physiology and Forest Productivity	3 (2+1)
11.	FBT 631	Genetic Engineering and Bioinformatics	3 (2+1)



## Department of Forest Products and Utilization



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### PG Courses M.Sc. Forestry (Forest Products and Utilization)

S.N.	Course Code	Title	Credits
1.	FPU 521	Wood Identification	2 (0+2)
2.	FPU 522	Wood Chemistry	2 (1+1)
3.	FPU 523	General Properties of Wood	2 (1+1)
4.	FPU 524	Wood Seasoning and Preservation	3 (2+1)
5.	FPU 525	Paper & Pulp Technology	3 (2+1)
6.	FPU 526	Wood Modification and Composite Wood	3 (2+1)



7.	FPU 527	Basics of Plant Production and Breeding Techniques	3 (2+1)
8.	FPU 528	Medicinal Chemistry and Processing of Maps	3 (2+1)
9.	FPU 529	Biotechnological Approaches and Agrotechniques for MAP Species	3 (2+1)
10.	FPU 530	Improvement of Medicinal and Aromatic Plants	2 (1+1)
11.	FPU 531	Role of Medicinal and Aromatic Plants in Health Care Systems	2 (2+0)
12.	FPU 532	Study Tour	1 (0+1)
13.	FPU 533	Pharmacognosy of MAPS	2 (1+1)

### PG Courses Ph.D. Forestry (Forest Products and Utilization)

S.N.	Course Code	Title	Credits
1.	FPU 621	Advances in Wood Technology	3 (2+1)
2.	FPU 622	Energy and Chemicals from Wood	3 (2+1)
3.	FPU 623	Research Methods	3 (1+2)
4.	FPU 624	Advances in Wood Modification	3 (2+1)
5.	FPU 625	Application of Traditional Knowledge	2 (2+0)
6.	FPU 626	Quality Improvement of Medicinal and Aromatic Plants	3 (2+1)
7.	FPU 627	Post Harvest and Processing of Medicinal and Aromatic Plants	3 (2+1)
8.	FPU 628	Biosynthetic Analysis of Secondary Metabolites	3 (3+0)
9.	FPU 629	Processing and Value Addition in MAP	3 (2+1)



## Department of Natural Resource Management



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## PG Courses M.Sc. Forestry (Natural Resource Management)

S.N.	Course Code	Title	Credit
1.	NRM 521	Watershed Concepts, Project Formulation and Planning	3 (2+1)
2.	NRM 522	Applications of Remote Sensing and GIS in Watershed Management	2 (1+1)
3.	NRM 523	Watershed Hydrology and Resources Conservation	3 (2+1)
4.	NRM 524	Production System and Bio-Diversity in Watershed	4 (3+1)
5.	NRM 525	People's Participation and Impact Analysis in Watershed Management	3 (2+1)
6.	NRM 526	Introduction to Environmental Sciences	2 (2+0)
7.	NRM 527	Environmental Analytical Techniques	3 (2+1)
8.	NRM 528	Environmental Impact Assessment	3 (2+1)
9.	NRM 529	Forest Resource Analysis	3 (3+0)
10.	NRM 530	Production Management of Nursery and Plantation Forestry	3 (2+1)
11.	NRM 531	Project Planning, Monitoring and Evaluation	3 (2+1)
12.	NRM 532	Farm Management	3 (3+0)

## PG Courses Ph.D. Forestry (Natural Resource Management)

S.N.	Course Code	Title	Credit
1.	NRM 621	Advanced Econometrics	3 (2+1)
2.	NRM 622	Natural Resource Economics	2 (2+0)
3.	NRM 623	Advanced in Soil and Water Conservation	3 (2+1)
4.	NRM 624	Forest Economics	2 (1+1)
5.	NRM 625	Project Planning and Evaluation	2 (1+1)
6.	NRM 626	Watershed Survey, Mapping and Structural Engineering Designs	3 (2+1)





7.	NRM 627	Global Climate Change	2 (2+0)
8.	NRM 628	Environmental Pollution	3 (3+0)
9.	NRM 629	Ecotourism in Protected Areas	3 (2+1)
10.	NRM 630	Ecotourism Landscaping	3 (2+1)
11.	NRM 631	Economics of Ecotourism	3 (2+1)
12.	NRM 632	Finance and Marketing Management of Forest Resources	3 (2+1)

### PG Courses M.Sc. Forestry (Wildlife Science)\*

S.N.	Course Code	Title	Credits
1.	ET 521	Ecotourism - Concepts and Modern Approaches	4 (2+2)
2.	ET 525	Economics of Ecotourism	3 (2+1)
3.	ET 523	Ecotourism in Protected Areas	3 (2+1)



## Department of Basic Sciences & Humanities



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## STUDENTS' REPRESENTATIVE COUNCIL-2019-20

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<b>STAFF ADVISORS</b>			
1.	Dr. B. N. Patel	Principal and Dean	President
2.	Dr. P. K. Shrivastava	Principal, College of Forestry	Vice- President
3.	Dr. N. B. Patel	Assoc. Professor (Vegetable Science)	Chairman
4.	Dr. M. K. Desai	Asstt. Professor (Agroforestry)	Co- Chairman
5.	Dr. Jayesh Pathak	Asstt. Professor (Agroforestry)	Cultural Advisor
6.	Dr. H. V. Pandya	I/c Professor and Head Department of Plant Protection	Chairman- Placement Cell & College Magazine
7.	Lt. G. V. Savani	Assoc. Professor (English)	Editor-College Magazine & NCC Officer
8.	Dr. M. B. Tandel	Asstt. Professor (Forestry)	Sports Advisor
9.	Dr. N. K. Patel	Asstt. Professor (Vegetable Science)	Advisor- Indoor Games
10.	Dr. Y. N. Tandel	Assoc. Professor (Fruit Science)	Advisor- Outdoor Games
11.	Dr. S. M. Patel	Asstt. Professor (Agroforestry)	Advisor- Outdoor Games
12.	Mr. M. R. Parmar	Asstt. Professor (Agroforestry)	Advisor- Outdoor Games
13.	Mr. Kirti Bardhan	Asstt. Professor (Plant Physiology)	Advisor- Literary Events
14.	Lt. (Dr.) Aadil Kazi	Asstt. Professor (Ecotourism & Wildlife)	Chairman- Nature Club, NCC
15.	Dr. V. B. Parekh	Asstt. Professor (Biotechnology)	Advisor, Alumni Events



16.	Dr. J. M. Vashi	Asstt. Professor (Vegetable Science)	Programme Officer- NSS
17.	Dr. Sudha Patil	Asstt. Professor (Floriculture)	Advisor- Girls Activities
18.	Dr. Nilam Patel	Asstt. Professor (PHT)	Advisor- Girls Activities
19.	Dr. Tulsi Gurjar	Asstt. Professor (Fruit Science)	Advisor- Girls Activities

### STUDENT REPRESENTATIVES

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4.	Patel Jinal	VII Sem B. Sc. (Hons.) Horticulture	Ladies Representative (LR)
5.	Lungariya Ajay	V Sem B. Sc. (Hons.) Horticulture	Secretary- CR Outdoor Games & CR
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8.	Sujith P. P.	III Sem B. Sc. (Hons.) Forestry	Secretary- Literary Events & CR
9.	Delvadiya Avadh	I Sem B. Sc. (Hons.) Horticulture	Secretary- TV Room & Reading Room & CR
10.	Rahul Mavi	I Sem B. Sc. (Hons.) Forestry	Secretary- Nature Club & CR
11.	Surela Vipulbhai	PG Horticulture	Secretary- Alumni Events
12.	Patel Minal	PG Forestry	Secretary- Placement Cell

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3.	Dr. B.S. Desai, U.G. Coordinator (Forestry) and Associate Professor	Member	9374065646
4.	Dr. R.V. Tank, P.G. Coordinator (Horticulture) and Associate Professor	Member	9426837531
5.	Dr. R.P. Gunaga, P.G. Coordinator (Forestry) and Associate Professor	Member	9408851342
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13.	Dr. H.P. Shah, Asst. Rector & Asst. Professor	Member	8000220111
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15.	Dr. D.P. Patel, Asst. Rector & Asst. Professor	Member	9429259249
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## PUBLICATION CELL

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4.	Dr. R.V. Tank, Asso. Professor, Dept. of Fruit Sci.	Member
5.	Dr. S. L. Chawla, Asso. Professor, Dept. of FLA	Member
6.	Er. Parag S. Pandit, Asstt. Professor, PHT	Member
7.	Dr. R.P. Gunaga, Asso. Professor & Head, Dept. of FPU	Member
8.	Dr. S. K. Jha, Asso. Professor & Head, Dept. of FBTI	Member
9.	Dr. V. B. Parekh, Asstt. Professor, Dept. BSH	Member





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5.	Dr. M.K. Desai, Assistant Professor Department of Silviculture & Agroforestry	Member	9427694080
6.	Dr. Dipal S. Bhatt, Assistant Professor Department of Floriculture & Landscape Architecture	Member	9909423528



# Inspiration (Articles)

-:: સાચો જાદુગર? ::-

જાદુગર શબ્દ સાંભળતા જ બધાના મનમાં કેલાલલ હકુભા કે છોટુભા જેવા જાદુગરો સ્ટેજ પર પોતાની લાકડી જેવી સળી લઈને ચલણ બોલીને કબૂતરમાંથી રૂમાલ ને રૂમાલ માંથી કબૂતર કરે એવા પાણીને હવામા ઉડતુ રાખે એવા અનેક ચિત્રો મગજમાં કાલ્પનિક થાય.

પણ ના મિત્રો આ જાદુગર નહીં માત્ર કળા હોય છે જે કોઈ પણ સામાન્ય માણસ મહેનતથી કરી શકે, તો હવે દુનિયામાં સાચો જાદુગર કોણ ?

દુનિયાના જાદુગર તો એ છે કે જે માટીમાંથી ઘડા બનાવે (કુંભાર), ચામડામાંથી ચંપલ બનાવે (મોચી), લાકડામાંથી વિવિધ વસ્તુ બનાવે (સુથાર) અને કપડાને આકાર આપે (દરજી), માણસને સાજા કરે (ડોક્ટર), શોધખોળ કરે (વૈજ્ઞાનિક), આ બધા રોજબરોજ જીવનમાં નવીનતા લાવી અને શૂન્યમાથી સર્જન કરે.

ઘણાને મનમાં થતુ હશે વાંચતી વખતે કે આ બધાથી પર તો ભગવાન હોય કે જેને બધાને સર્જન કરવાં તો એ ન થાય જાદુગર? પણ ના વાચક મિત્રો એ તો સર્જન હાર છે. સર્જન કરી શકે પણ વ્યક્ત ન કરી શકે.

આ બધી તો ગોણ વાત પણ હજુ સાચો જાદુગર કોણ? આ બધા તો નાના જાદુગરો પણ જેમ જાદુગર ની દુનિયામાં કેલાલ સૌથી મોટો તો આપણી દુનિયામા કોણ મોટુ?

આપણો મોટો જાદુગર તો એ છે કે જે નાના બીજમાંથી મોટો છોડ બનાવે અને તેમા ઉત્પાદનથી પોતાની રોજી-રોટી બનાવે એવા ધરતી માતાના લાડલા પુત્રો ખેડૂતો, ખેડૂત જ મારા મતે તો મોટો જાદુગર છે. ખેડૂત એકલો આખા ખેતર નું કામ ન કરે, એટલે મદદ માટે બીજા લોકોને બોલાવેલ તો બનાવટી જાદુગર સાથે પણ જોકર અને તેના સહ-કલાકારો તો હોય જ છે.

કળા-વાળા જાદુગર નો ખેલ તો ૧ કલાક જેવો હોય છે. પણ સાચો ખેલ તો ખેડૂતો જ ખેલે છે ૬ થી ૭ મહિનાને આખી જીંદગી.

વિચારો એક ખેડૂતની સ્થિતિ કેવી હશે ? આ જમાનામાં કે જેમાં મોઘવારી એ હાટ જમાવ્યો છે. ગરીબ એ વધુ ગરીબ અને અમીર એ વધુ અમીર બનતો જાય છે. પણ મધ્યમ વર્ગનો માણસ એ શોષાય શોષાય ને જીવ બાળે છે.

સામાન્ય ખેડૂતો કે જે પહેલા પોતાની મૂડી રોકી અને ઊંચારણ ખરીદે પછી જમીનમાં વાવે એમા પણ વરસાદ થાય, તો તો વાંધો નહીં પરંતુ કુદરત જ્યારે પોતાની રીતે વર્તન બદલેને થોડાક સમયમાં વરસાદ ન આવે તો એ બધુ નિષ્ફળ જાય, અને ફરીથી નવું ખરીદી અને વાવવું પડે. પછી પણ સમયસર ચોમાસામાં વરસાદ અને મોઘવારીમાં તરબતર કરે એવી પાકને અનુકૂળ જંતુનાશક દવા અને પેસ્ટીસાઈડ વગેરે આપવું પડે. હજુ તો પાક તૈયાર થયો નથી તે પહેલાનું આ રોકાણ છે. પછી તૈયાર થાય તો વ્યાપારી સાથે સંગઠનથી પાક વૈયાણ પ્રક્રિયા પણ ધાર્યુ એટલું તો પરત મળે જ નહીં, ખાલી રોજી-રોટી અને તેના બાળકોનું પોષણ થાય એટલું જ મળે.

ખેડૂતને તો તેનુ ઉત્પાદનનો અડધો હિસ્સો તો પાછા આવતા વર્ષના પાકની તૈયારીમાં જ જતો હોય, તે નથી ગરીબ કહેવાતો કે નથી અમીર કહેવાતો પણ ખેંચી ખેંચી ને જીવવા વાળો માણસ કે જે આપે છે ઘણુંય પણ આ દુનિયામાં ખેડૂત વગર બહું જ નકામુ છે. ઈમારત ગમે તેટલી મોટી હોય પણ પાચો મજબુત હોય તેમ ખેડૂત પણ પાચા સમાન છે.

હાલ બીજી પણ એક વાત કે રત્રી પણ એક જાદુગર છે, ખેડૂત જે ઘઉંનો દાણો ઘરમાં લાવે તેને રોટલીનો આકાર આપી અને બધાને સંતોષે છે.

જય જવાન જય કિસાન

રિયા માકડિયા  
B.Sc. Forestry, 8<sup>th</sup> Semester



## —:: માનવ, પ્રકૃતિ પર થોડી તો દયા કરો ::—

૨૮, નવેમ્બર ૨૦૧૨, આ દિવસ વિશ્વના વનો માટે એક નવી સોનેરી સવારની જેમ હતો. આ દિવસે સંયુક્ત રાષ્ટ્રોની જનરલ એસેમ્બલીમાં બધા દેશોએ સર્વાનુમતે ૨૧ માર્ચને આંતરરાષ્ટ્રીય વન દિવસ તરીકે ઉજવવાનું શરૂ કર્યું અને ૨૧, માર્ચ ૨૦૧૩ થી આંતરરાષ્ટ્રીય વન દિવસની ઉજવણી દર વર્ષે કરવામાં આવે છે.

આ પહેલા પણ વનોની, પ્રાણીઓની, પક્ષીઓની અને પર્યાવરણની રક્ષા માટે ઘણા બધા નિયમો/ઠરાવ પ્રસાર કરવામાં આવ્યા હતા. પરંતુ વિવિધ ઠરાવ હોવા છતાં ન જાણે કેમ રોજે રોજ કેટલાય જંગલોનો નાશ થઈ રહ્યો હતો. નવેમ્બર, ૨૦૦૫ માં ફુડ એન્ડ એગ્રીકલ્ચર ઓર્ગેનાઈઝેશન FAO એ જાહેર કરેલી યાદી મુજબ વિશ્વમાં દર મિનિટે ૦.૫ હેક્ટર એટલે કે ઘણા ફુટબોલ ના મેદાન જેટલા ફુદરતી વનોનો નાશ થઈ રહ્યો હતો. પ્રસાર કરવામાં આવેલા વિવિધ ઠરાવ એ ફક્ત તેની સાથે સંકળાયેલા લોકો સુધી જ સિમિત હતા. સામાન્ય નાગરિકો ને તેની જાણ ન હતી કે વનો પ્રત્યે જાગૃતતા લાવવા તેમને સમજાવવા કે વનોના નાશથી માણસ પોતાનો નાશ કરી રહ્યો છે. તેથી તેમાં જાગૃતતા લાવવા આ દિવસની ઉજવણી કરવાનું નક્કી કરાયું.

વિશ્વના ઘણા જંગલો જેવા કે એમેઝોન જે પૃથ્વીના ફેફસાં છે તે પણ રોજે રોજ નાશ થઈ રહ્યું છે. આવા કેટલાય જંગલો ફક્ત માનવના સ્વાર્થ માટે નાશ પામી રહ્યા છે. માણસ જંગલોનો ઉપયોગ એ રીતે કરે છે કે જેમ તે તેમની ખાનગી મિલકત હોય.

વનોની વાત છે તો માનવ જાણી જોઈને શું ગુમાવી રહ્યો છે તે એની એક વાત કરું છું. એક વાર્તા સ્વરૂપે કે જંગલ ની અંદર એક વૃક્ષ પર એક ચકલી તાંતણાઓ ભેગા કરી ને પોતાનો માળો બનાવે છે. આપણી ભાષામાં કહું તો પોતાના સપનાનું ઘર અને તેમાં તે ચકલી પોતાના ઈંડા મુકે છે અને ત્યારબાદ તેમને સેવે છે. તે માતા પોતાના અને બચ્ચાઓને ખોરાક ની શોધ માટે જતી હોય છે અને તે ઉડી પણ ન શકાતા તેમના બચ્ચાને કહે છે કે, હું હમણાં આવી છું. તમે તમારું થોડી વાર ધ્યાન રાખજો એમ કરી ને ત્યાંથી તે નીકળી જાય છે. ત્યાં અચાનક બે-ત્રણ લોકો આવે છે અને તે વૃક્ષ પર જોયા વગર તેને કાપવાનું શરૂ કરે છે. વૃક્ષના કપવાથી તે માળામાં રહેલા બચ્ચાઓ ડરી જાય છે. પણ તેની એવી હાલત પણ નથી કે તેઓ ઉડી ને બીજે જઈ શકે. વૃક્ષ કપાઈને નીચે પડે છે અને સાથે સાથે તે માળો પણ તે વૃક્ષની નીચે આવી જાય છે. થોડા સમય બાદ ત્યાં પેલી ચકલી આવે છે અને તે કપાઈને પડેલાં વૃક્ષમાં પોતાના બચ્ચાઓને શોધે છે. પણ તે દશ્ય જોઈને તે હેરાન થઈ જાય છે અને રડવા લાગે છે. ત્યાં પછી જંગલના ઘણાં પક્ષીઓ ત્યાં આવે છે અને ચકલીને સમજાવે છે કે આવું ફક્ત તેની સાથે જ નથી થયું આવું રોજે રોજ કેટલાય જંગલોમાં થાય છે અને પશુ – પક્ષીઓ માનવી ના સ્વાર્થ માટે હણાય છે. ત્યારે તે ચકલી ભગવાન ને કહે છે કે તે “આ આખી આ દુનિયા સરસ બનાવી પણ તારાથી પણ એક ભુલ થઈ ગઈ કે તે આવા માનવ બનાવ્યા”

જો આ રીતે પ્રકૃતિ અને તેમાં રહેલા વનો, પક્ષીઓ, પ્રાણીઓ હણાય જશે તો દુનિયા માં ખાલી એક જ જીવ વધશે જેને માનવ કહેવાય છે. પરંતુ આવા માનવને પ્રકૃતિ ખાલી દાનવ જ કહેશે.

દાનવ બનવાનું મુકીને માનવ બનવા વિનંતી. જંગલોને પ્રેમ કરતાં શીખો તેમાં રહેલા પશુ-પક્ષીઓને પ્રેમ કરતાં શીખો. તેની સાથે મિત્રતા કરો તે તમારા માટે બધું જ કુરબાન કરતું હતું અને કરતું રહેશે, થોડી એની પણ જાળવણી કરો.

અંતે એટલું કહીશ કે પશુ પક્ષી છે ધરતીની શાન વૃક્ષો છે પ્રકૃતિની જાનને માણસ માનવ થાય તો ઘણું છે.

જયમીન હડીયા

B.Sc. (Hons.) Horticulture, 8<sup>th</sup> Semester



“કેવું હતુ એ ..... બાળપણ!!!!”  
“ઘૂંટણે તાજ છે એ બાળપણના નિશાન,  
યાદો નું મલમ લગાડીને આવું છું,  
વર્તમાન ને કહો થોભી જાય,  
બાળપણને મળીને આવું છું.”

બાળપણ શબ્દ સાંભળતા જ ભલભલા માણસો પોતાના બાળપણમાં ખોવાઈ જાય છે. એ બાળપણની મસ્તી, બાળપણની રમત, બાળપણનાં ફોટા, બાળપણનાં મીઠા ઝગડા, બાળપણની કાલીઘેલી વાતો આહાહા..... કેવા હતા એ દિવસો.

નાના હતા ત્યારે કોઈ ટેન્શન જ ન હતું. ન હતા મોબાઈલ કે ન હતા ટેબલેટ. બાળપણમાં શેરીમાં રમવાની મજા, રેતી થી નાહવાની મજા, લંગોટિયાવ સાથે વાતો કરવાની મજા કંઈક અલગ જ હતી. રમતની વાત કરીએ તો બોલ-બેટ, ભમરડો, લખોટીઓ, સંતાકૂકડી, પકડ દાવ એવી અનેક રમતો રમતા.

પછી થોડા મોટા થયા એટલે શાળાએ જવાનું થયું. શાળાનો પહેલો દિવસ હોય એટલે રડવું તો પડે જ ને. રડતા રડતા શાળાએ જવાનું ત્યાં ટીચર ૧, ૨, ૩, ૪.... ભણાવે પણ આપણે તો એ પાટીમાં પેન લઈને લીટા જ દોરવાના. પછી શાળાએથી દોડતા દોડતા દફતર ઊંચાળતા ઘરે આવીને રમવા જવાનું. રમવા ગયા પછી અંધારું ક્યારે થાય એ ખબર જ નાં પડે. અને લેશન કરવું કોને ગમે? પપ્પા જબરદસ્તી કાન ખેંચીને લેશન કરાવડાવે. એ કલાસ ની છેલ્લી બેંચ અને ત્રણ મિત્ર હોય પછી કયા ભણવાનું આવે જ. વાતોના ફાંકા મારવાના, મસ્તી કરવાની અને પછી ટીચર કલાસની બહાર કાઢી મુકે અને એ બહારને આખી સ્કૂલ ફરી લેવાની. રિશેસ માં મિત્રો સાથે નાસ્તો કરી શાળાની ગેલેરીમાં સ્લીપ મારવાની, ધીગામસ્તી, તોફાન બધું રિશેસમાં જ કરી લેવાનું ત્યારે કોઈ રોકવા કે ટોકવા વાળું ન હોય.

જ્યારે દસમાં ધોરણમાં આવ્યા પછી તો બહારની દુનિયા જ ભુલાઈ ગઈ, શાળાએ થી ઘરે, ઘરે થી ટ્યુશન.. બસ આ જ દુનિયા. Daily test નાં ચક્કરમાં રમવાનું સાવ બંધ થઈ ગયું. આખો દિવસ ભણવાનું જ કામ. પછી ૧૧ -૧૨ એટલે તો સાવ ઘરે જ. પાછુ Science હોય એટલે વાંચવાનું જ. અને છોકરો બે ઘડી બહાર નીકળે એટલે બીજા બધા ગુનો ગણે. બસ આમ ધીમે ધીમે બાળપણ લુપ્ત થઈ ગયું અને આ માયાવી દુનિયામાં ફસાઈ ગયા. જ્યારે કિટ્ટા- બુચ્યામાં સબંધ સુધરી જતા. હવેતો માફી માંગીએ તો'ય સબંધમાં કડવાસ રહી જાય છે.

“આજે હૃદયની ઝેરોક્ષ કટાવી તો ખાલી બાળપણનાં ફોટા કલરફુલ આવ્યા;  
બાળપણમાં બીજની કહાની સાંભળીને આપણે ઉંઘતા હતા  
અને આજે! પોતાની જ કહાની યાદ કરીને ઊંઘ ઊડી જાય છે.”

- દર્શન વડોદરિયા

B.Sc. (Hons.) Horticulture, 2<sup>nd</sup> Semester



### “જિંદગી”

હદયે એકઠા કરેલ સ્વપ્નો સાથે  
જિંદગી ખરીદવા નીકળું ત્યારે  
બજારે જિંદગીની કિંમત સાંભળતા  
હદયે પૈસા બેકાર થાય  
અમૂલ્ય છે આ જિંદગી  
નહી મળે તે વારંવાર  
મુશીબતે ન હારવી હિંમત  
હોશ મેળવી સામનો કરવો  
જિંદગી એ એક નિયમ બનાવ્યો  
જ્યારે ત્યારે પલટાઈ જાય  
નશીબનો ખેલ છે આ જિંદગી  
જીવનને રમીને જીવી લેવી  
ગુમાવવી ન આ અમૂલ્ય જિંદગી  
ખુશીથી જીવી લેવી છે હવે જિંદગી  
સમજાયું હવે આટલું  
આ વહાલી જિંદગી એવી

-મહેતા અમી બી.

B.Sc. (Hons.) Horticulture, 2<sup>nd</sup> Semester

### “આંસુ”

આંખે આવ્યું તું આંસુ  
આંખ આખી ઝળકી તી  
એમ તો એક ટીપું પડ્યું જો  
આખું જગ ઝળક્યું આંસુએ  
ખુશીના આંસુ તા કે ગમના  
નવું ‘તું’ સપનું આંખલડીએ  
કાળજે ‘તું’ કંઈક અનેરું  
આંખે આવ્યું કંઈક અજાયબ  
અમીની આંખે ઝળક્યું અમૂલ્ય  
અમાસની રાતે જગે રેલાયું  
જગ આખું ઝળકી ઉઠ્યું  
“અમી” ની આંખે રેલાયો વિશ્વાસ  
પણ... કોણ એ જાણી શક્યું  
સુખનું કે દુઃખનું આંસુ

-મહેતા અમી બી.

B.Sc. (Hons.) Horticulture, 2<sup>nd</sup> Semester



## ज़िन्दगी

ये ज़िन्दगी भी कितनी अजीब हैं ना  
ना चाहते हुए भी क्या कुछ सहना पड़ता है  
कुछ चंद खुशिया हासिल करने की खातिर  
इन किताबों से इश्क़ करना पड़ता है

खुशियां तो मिल जाती हैं इस दौड़ में शायद  
पर कुछ अपनो से ही पराया होना पड़ता है  
वो माँ-बाबा के उस प्यार से कहीं दूर  
होस्टल के खाने से ही काम चलाना पड़ता है

राहे बदलता रहता है वक्त हर रोज यहाँ  
एक अनजान से सफर का मुसाफिर होना पड़ता है  
खुशियां यूँ ही नहीं मिलती सबको यहाँ पर  
बदले में कुछ सपनों को खोना पड़ता है

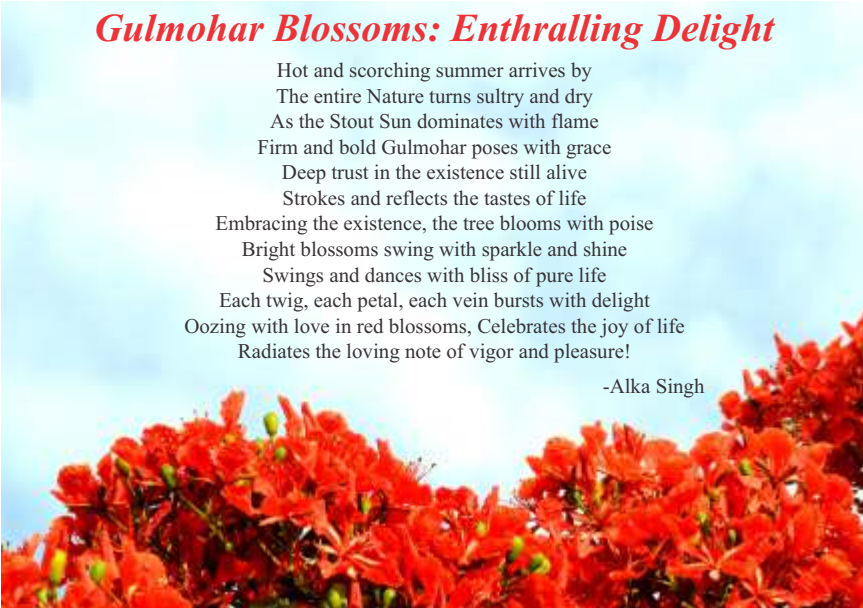
एक मजाक सी हो गई है अब तो ये ज़िन्दगी  
कुछ लम्हों को खामोशी से दफन करना पड़ता है  
कितना भी भरा हो अंदर आंसुओं का समंदर पर  
एक झूठी हँसी के साथ मुस्कराना सबको पड़ता है

Akash Yadav,  
B.Sc. (Hons.) Horticulture, 4<sup>th</sup> Semester

### *Gulmohar Blossoms: Enthralling Delight*

Hot and scorching summer arrives by  
The entire Nature turns sultry and dry  
As the Stout Sun dominates with flame  
Firm and bold Gulmohar poses with grace  
Deep trust in the existence still alive  
Strokes and reflects the tastes of life  
Embracing the existence, the tree blooms with poise  
Bright blossoms swing with sparkle and shine  
Swings and dances with bliss of pure life  
Each twig, each petal, each vein bursts with delight  
Oozing with love in red blossoms, Celebrates the joy of life  
Radiates the loving note of vigor and pleasure!

-Alka Singh



## मैं 'कोरोना' - 'करो' ना'

- ॥ शुरुआत कहाँ से हुई मेरी, किसी ने तो की है प्रकृति से हेरा फेरी ॥  
॥ मैंने दिया परिवार जनों को वायरस, सभी जनों की जिन्दगी बना दी नीरस ॥  
॥ परिवार में रिश्ते तो बढ़ने लगे, पर समाज से खत्म कर दिया रस ॥  
॥ दे दी दूरी यह कह कर कि ये 'करो' ना वो 'करो' ना क्योंकि मैं हूँ 'कोरोना' ॥  
॥ मैं समय बन गया सिखा दिया इसका मूल्य ॥  
॥ जिन्दगी से सभी को हो गया प्यार और बना दिया इसे अतुल्य ॥  
॥ सभी मढ़ने लगे एक दूसरे के ऊपर दोष, कुछ ने सो कर समय गुजारा ॥  
॥ कुछ सो कर जग गए और समय को बनाया सहारा ॥  
॥ पर मैंने यह भी कह दिया कि यह 'करो' ना वो 'करो' ना क्योंकि मैं हूँ 'कोरोना' ॥  
॥ मैंने सिखा दिया दूरी रखना, दूर से पढ़ना, सब कामों में दूरी है जरूरी ॥  
॥ साथ में दे दिया नया विचार कि वीडियो कान्फ्रेंसिंग तुम 'करो' ना ॥  
॥ किसान बेचारा, बेचारा किसान करने लगा इंतजार ॥  
॥ और कहने लगा मेरी जिंदगी हो गई लाचार, कुछ तो 'करो' ना ॥  
॥ पर मैंने कहा कि ये 'करो' ना, वो 'करो' ना क्योंकि मैं हूँ 'कोरोना' ॥  
॥ ये कहने लगे वो कहने लगे कैसे होंगे काम ॥  
॥ आँखों और माथे से पहचानो, सबको नहीं है यह आसान ॥  
॥ कौन याद करे कैसे साद रखे, सबके बदल गए सुर ॥  
॥ और मैं हो गया सब के लिए नासूर ॥  
॥ वेरंग कर दी जिंदगी यह कहकर कि ये 'करो' ना, वो 'करो' ना क्योंकि मैं हूँ 'कोरोना' ॥  
॥ आदि और अंत सबका होगा मेरा भी निश्चित है, पर याद रख लो कि यह है 'कोरोना' ॥  
॥ मैंने दे दिया यह गुरुमंत्र अपनी सुरक्षा सबकी रक्षा, कदम रखो फूंक फूंक कर दे दी यह दीक्षा ॥  
॥ गुरु विन ज्ञान कहाँ से आए, कर दिया मैंने सम्पर्क खत्म ॥  
॥ और यह भी कह दिया कि सही फैंसला लेने का करो प्रयत्न ॥  
॥ क्योंकि मैं कहता हूँ कि ये 'करो' ना वो 'करो' ना मैं हूँ 'कोरोना' ॥

संजीव कुमार





### Agroterrorism: Menace and Preparedness

**Agroterrorism:** The potential for terrorist attacks against agricultural targets is increasingly recognized as a national security threat. In this context, agroterrorism is defined as the deliberate introduction of an animal or plant disease with the goal of generating fear over the safety of food, causing economic losses, and/or undermining social stability.

#### Biological weapons used in Agro-warfare

- ◆ The dropping of the dreaded Colorado potato beetles (*Leptinotarsa decimlineata*) by Germany in the potato fields of the UK during World War II
- ◆ Cuba accused US of attacking Cuban crops on several occasions through pests like tobacco blue mold, sugarcane rust and Thrips palmi
- ◆ The trend towards planting monocultures that has a high degree of genetic homogeneity, the concentration of a single crop in one region and the intensive rearing of animals all aid the disease spread.
- ◆ As recently revealed by the US, Iraq had a wheat smut bomb and stockpiles of wheat rust spores while aflatoxin and anthrax spores were also used in powdered forms during the US-Afganistan war.
- ◆ *Clostridium tetani*, *Clostridium botulinum*, *Salmonella typhimurium* organisms are being used as weapons in agro-warfare, in case of which cases the targets are vulnerable and the security low.

#### Plant Pathogens as agroterrorist weapon

##### Biowarfare

- ◆ *Tilletia indica*- Attack by a country on the agricultural sector of another country to block commercial imports of the targeted products and prevent their entry into its national market or to enhance its own exports.
- ◆ *Phytophthora infestans*- Attack by a country to weaken the targeted country by reducing its domestic food supplies. This action could be undertaken before a military intervention or replace it.

##### Bioterrorism

- ◆ *Fusarium graminearum*- Terrorist attack targeting food crops. The use of the agent may have negative impacts on human or animal health.
- ◆ *Mycosphaerella populorum*- Attack against crops or planted trees by ecowarriors who want to carry out a radical ecological action.
- ◆ *Ceratocystis fagacearum*- Terrorist attack aimed at damaging a crop or a tree species that belongs to the national heritage.

##### Biocrime

- ◆ *Xylella fastidiosa*- Attack by activists or farmers groups against the production of a competing country.
- ◆ *Puccinia triticina*- Isolated attack by an individual working in the crop protection field, looking for recognition, or revenge upon a colleague or an institution.
- ◆ *Phakopsora pachyrhizi*- Deliberate use of a plant pathogen by a private company. The aim would be to render farmers dependant on specific cultivars or plant protection products.

#### Developing a Comprehensive Strategy

In the light of various issues as highlighted above, a holistic concept to address the issue of Agro-terrorism needs to be evolved. It is also clear that under the present international scenario, the plant protection specialists have a major role to play not only in promoting and facilitating export and import in the interest of their respective nations but also in protecting the environment from the onslaughts of invasive alien pest and diseases. Besides, the threat to national biosecurity from the use of such pathogen as bioweapons to create agro-terrorism is a possibility that requires preparedness.

Dr. V. P. Prajapati, Dr. P. R. Patel and Dr. Hemant Sharma

## Success Story of Hard work and earnest efforts

- ◆ I didn't complete my University – **Bill Gates**
- ◆ I stitched shoes in childhood – **Abraham Lincoln**
- ◆ I was the one who served in hotel – **Oberoi**
- ◆ I was a conductor – **Rajnikanth**
- ◆ I worked at petrol pump – **Dhirubhai Ambani**
- ◆ I failed in class 10<sup>th</sup> – **Sachin Tendulkar**
- ◆ I was a drop out and a keyboard player – **A. R. Rahman**
- ◆ I slept on a bench and borrowed Rs. 20 everyday from friend to travel to film city – **Shahrukh Khan**
- ◆ I used to serve tea to support my football training – **Lionel Messi**

**Dr. S. N. Saravaiya and Dr. Himani B. Patel**

## Points to Ponder

- ◆ Satisfaction is better than Success B'coz Success is decided by “OTHERS” While, satisfaction is decided by “US”.
- ◆ Achievers never expose themselves, but their achievements expose them.
- ◆ “DO OR DIE” is old fashion, “DO IT BEFORE YOU DIE” is the new one.
- ◆ Control your “ANGER” because it is just one letter away from 'D'ANGER.

**Dr. S. N. Saravaiya and Dr. Himani B. Patel**



## Forgotten v/s Natural Wonders

Abu Simbel Temple: Egypt  
Machu Picchu: Peru  
Easter Island: Chile

**"Forgotten Wonders"**  
Angkor Wat: Cambodia  
Shwedagon Pagoda: Myanmar  
Tomb of Itmad-Ud-Daulah : India

Borobudur Temple: Indonesia  
Stonehenge: UK  
Parthenon :Greece

Angel Falls: Venezuela  
Grand Canyon: USA  
Nile: Egypt

**"Natural Wonders"**  
Caspian Sea: Eurasia  
Great Barrier Reef : Australia  
Sahara: Northern Africa

Dead Sea: Israel and Jordan Border  
Mount Everest: Nepal  
The Bay of Fundy: Canada

**Dr. S. N. Saravaiya and Dr. Himani B. Patel**

## Extinct and Endanger Species

**Extinction means:** When all the members of a species disappears from the earth.

e.g., Dinosaur, Mammoth, Tasmanian Wolf, Passenger Pigeon, Dodo, Asiatic Cheetah

**Endanger means:** - One which is rare and threatened with extinction.

e.g., Asiatic Lion, Tiger, Snow leopard, Rhinoceros, Giant Panda

**Dr. S. N. Saravaiya and Dr. Himani B. Patel**



## TAKE HOME FREE WITH YOU .....

My dear students,

Both juniors and seniors;

You have come here to get quality education,

Or only to take degree;

Mind well, the degree will fetch you jobs only,

While quality education will fetch you everything in your life;

Quality education fetches you in addition to degree,

Manners, etiquettes, social behavior, living style & many more;

And above all, the blessings of our most respected teachers,

By which you can win any battle in your life;

While degree fetches you only the technical knowhow;

By which you can get a job only;

Gandhiji demarcated degree education and quality education very well,

Quality education will fetch you respect in society both by younger and elders;

So what do you want to take from here,

Only degree or a quality education;

Only degree and option for a job,

Or job and many more things with it;

Remember, a quality education is like a sale in the market,

Where we get an option “buy one and get many things free”

So what do you want now?

Decide yourself and go ahead to achieve your goal.

**Dr. Himani B. Patel**



# Academic Report Medals/Awards

S.N.	Name of Medal	Name of Students
<b>Horticulture</b>		
1.	Vice Chancellor's Gold Medal for B. Sc. (Horti.)	
2.	ASPEE Foundation Gold Plated Silver Medal for a student who obtains the highest OGPA in B. Sc. (Horticulture).	Shikha Saini
3.	Late Shri Bhulabhai Karshanji Patel Gold Plated Bronze Medal" for a student who obtains the highest OGPA in B.Sc. (Horticulture)	
4.	Chancellor's Gold Medal for Master's degree M.Sc. (Horti.)	Meghalakshmi Guddad
5.	"ASPEE Foundation Gold Plated Silver Medal" for M.Sc. (Horticulture) either in the subject of Fruit Science or Vegetable Science.	Miss Ankita Mantri
6.	"ASPEE Foundation Gold Plated Silver Medal" for M.Sc. (Horticulture) either in the subjects of Floriculture and Landscape Architecture or Post Harvest Technology	Madhusudan R
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	Patel Himani Biharilal
8.	"Kalptaru Gold Plated Silver Medal" for M.Sc. / M. Tech./ Ph.D. (Agriculture/ Horticulture / PHT & PE)	Patel Ronakbhai Jayantilal
9.	"Late Mrs Indumatiben and Dr Pravinbhai Shukla Gold Plated Bronze Medal" in the subject of Production Technology of Medicne Plants for M. Sc. (Horticulture)	Prajapati Vishalkumar Ramanbhai



### Forestry

10.	Vice Chancellor's Gold Medal for B.Sc. (Forestry)	Sharooque Nassal A P
11.	"ASPEE Foundation Gold Plated Silver Medal" for a student who obtains the highest OGPA in B. Sc. (Forestry).	Mashi Akbarhusen
12.	"Late Dr Vitthalbhai Jeevrajbhai Patel Gold Plated Bronze Medal" for a student who obtains the highest OGPA in B.Sc. (Forestry)	Kamarali
13.	"ASPEE Foundation Gold Plated Silver Medal" for Ph.D. (Forestry)	Bhusara Jignesh Kumar Balubhai



Shikha Saini receiving Vice Chancellor's Gold Medal for B. Sc. (Horti.)



Ms. Ankita Mantri receiving ASPEE Foundation Gold Plated Silver Medal" for M.Sc. (Horticulture)-Fruit Science



Madhusudan R. receiving ASPEE Foundation Gold Plated Silver Medal" for M.Sc. (Horti.)



Dr. Himani B. Patel receiving ASPEE Foundation Gold Plated Silver Medal" for Ph.D. (Horticulture)-Vegetable Science





Patel Ronakbhai Jayantilal receiving Kalptaru Gold Plated Silver Medal for M.Sc. (Horticulture)



Prajapati Vishalkumar Ramanbhai receiving "Late Mrs. Indumatiben and Dr. Pravinbhai Shukla Gold Plated Bronze Medal" in Medicine Plants for M.Sc. (PSMA)



Sharooque Nassal A P receiving Vice Chancellor's Gold Medal for B.Sc. (Forestry)



Mashi Akbarhusen Kamarali receiving ASPEE Foundation Gold Plated Silver Medal highest OGPA in B. Sc. (Forestry).



Bhusara Jignesh Kumar Balubhai receiving ASPEE Foundation Gold Plated Silver Medal" for Ph.D. (Forestry)



# Semester Toppers (Horticulture-2019-20)

## 1<sup>st</sup> Sem. B.Sc. (Hons.) Horticulture

S.N.	Name	C.G.P.A.
1	Delvadiya Avadh Kamlesh	9.14
2	Anjali Krishna U S	9.08
3	Njana Ganga S	8.92

## 3<sup>rd</sup> Sem. B.Sc. (Hons.) Horticulture

S.N.	Name	C.G.P.A.
1	Saloni Naik	8.24
2	Swaraj Kumar Behera	8.13
3	Vicky Gurjar	8.06

## 5<sup>th</sup> Sem. B.Sc. (Hons.) Horticulture

S.N.	Name	C.G.P.A.
1	Odedara Hitesh Pratap	8.91
2	Ashly Jossy	8.80
3	Parmar Yukti Navnitbhai	8.48

## 7<sup>th</sup> Sem. B.Sc. (Hons.) Horticulture

S.N.	Name	C.G.P.A.
1	Vashi Henil Dipam	9.10
2	Gamit Jimishkumar Jivanbhai	8.34
3	Sojitra Gopi Arjanbhai	8.33



# Semester Toppers (Forestry-2019-20)

## 1<sup>st</sup> Sem. B.Sc. (Hons.) Forestry

S.N.	Name	C.G.P.A.
1	Aiswarya T. S.	8.41
2	Akash K	8.22
3	Avanthika R S	8.17

## 3<sup>rd</sup> Sem. B.Sc. (Hons.) Forestry

S.N.	Name	C.G.P.A.
1	Akhila C K	8.37
2	Panchal Simran Paresh	8.29
3	Suruchi Kumari	8.29

## 5<sup>th</sup> Sem. B.Sc. (Hons.) Forestry

S.N.	Name	C.G.P.A.
1	Amal A L	8.26
2	Ajay Khakha	7.70
3	Thumbar Bhavikaben Sanjaybhai	7.44

## 7<sup>th</sup> Sem. B.Sc. (Hons.) Forestry

S.N.	Name	C.G.P.A.
1	Preeti	8.86
2	Sourav Manoharan	8.38
3	Rangani Mohit Ratilal	8.04



## Students Qualified JRF-2019

S.N.	Name of the students	Registration No.	Degree
1.	Vaishnav Avinashkumar Hiralal	3020215053	B. Sc. (Hons.) Horti.
2.	Shikha Saini	3020215048	B. Sc. (Hons.) Horti.
3.	Goswami Karan Chandrabhangiri	3020215011	B. Sc. (Hons.) Horti.
4.	Parakhiya Nikunj Vinodbhai	3020215029	B. Sc. (Hons.) Horti.
5.	Panchal Chetankumar Vijaybhai	3020215027	B. Sc. (Hons.) Horti.
6.	Zala Vijaykumar Ramasibhai	3020215056	B. Sc. (Hons.) Horti.
7.	Patel Yashkumar Narsinhbhai	3020215040	B. Sc. (Hons.) Horti.
8.	Abhigya Bharati	3020215057	B. Sc. (Hons.) Horti.
9.	Neha Sharma	3020215026	B. Sc. (Hons.) Horti.
10.	Sindha Mallikaben Ravjibhai	3020215051	B. Sc. (Hons.) Horti.
11.	Patel Hardikkumar Arvindbhai	3020213028	B. Sc. (Hons.) Horti.
12.	Praveenkumar Ausari	3020215044	B. Sc. (Hons.) Horti.
13.	Ardeshta Meet Ramnikbhai	3020215002	B. Sc. (Hons.) Horti.
14.	Padheriya Divyarajsinh R.	3030315019	B. Sc. (Hons.) Forestry
15.	Arun A.	3030315001	B. Sc. (Hons.) Forestry
16.	Mashi Akbarhusen K.	3030315015	B. Sc. (Hons.) Forestry
17.	Preeti	3030316029	B. Sc. (Hons.) Forestry
18.	Rangani Mohit R.	3030316033	B. Sc. (Hons.) Forestry
19.	Sourav Manoharan	3030316035	B. Sc. (Hons.) Forestry
20.	Gorfad Krishna P.	3030316008	B. Sc. (Hons.) Forestry
21.	Tandel Purvakumari A.	3030316037	B. Sc. (Hons.) Forestry
22.	Patel Ankitaben K.	3030315022	B. Sc. (Hons.) Forestry

## Students Qualified SRF-2019

S.N.	Name of the students	Subject
1	Raghavendra H. R.	PHT
2	Prajapati Vishal	PSMA
3	Sangeetha Priya S.	FLA
4	Jyoti Uppar	PSMA
5	Shivakumara N R	Fruit Science



# Students Qualified NET-2019-20

## Fruit Science (10)

- 1 Patel Dhiralbaben Sureshbhai (2020217019)
- 2 Tandel Jinalben Jagjivanbhai (2020217035)
- 3 Rathod Khushbuben Dhirubhai (2020217030)
- 4 Patel Nikshita Rohitbhai (2020217022)
- 5 Pradeepkumar M (2020217027)
- 6 Ahir Priya Jayantilal (2020217002)
- 7 Shivakumara N R (2020217033)
- 8 Smita Kesurbhai Chaudhari (2020217034)
- 9 Patel Twinkle Ashokbhai (2020217025)
- 10 Patel Zarna Kamleshbhai (2020217026)

## Vegetable Science (09)

- 1 Mahesha K. N. (1020219010)
- 2 Gamit Upmakumari Chunilal (1020219007)
- 3 Vaghela Kalpeshbhai Shivabhai (1020219019)
- 4 Adarsh Guddadamath (2020217001)
- 5 Parmar Manishkumar Narsinhbhai (2020217018)
- 6 Goswami Mayurgiri Jagdishgiri (2020217011 )
- 7 Patel Jesalben Rajeshbhai (2020217021)
- 8 Monu Kumari (2020218020)
- 9 Bhatt Zalakben Kartikkumar (2020217004)

## Floriculture and Landscaping (09)

- 1 Sangeetha Priya S. (2020217031)
- 2 Gohel Ketan P. (2020217010)
- 3 Zala Kuvarsinh R. (2020217038)
- 4 Vamaja Shanikumar Mansukhbhai (2020217036)
- 5 Patel Snehakumari Maheshbhai (2020217024)
- 6 Dudhat Rinkal Himmatbhai. (2020217007)
- 7 Mangroliya Ronak Mukeshbhi (2020218018)
- 8 Kavita (1020219001)
- 9 Vinod Boye (1020219002)

## Entomology (01)

- 1 Anjali G.P. (2020217003)

## Department of Silviculture and Agroforestry (01)

- 1 Govind (1030319002)

# National Scholarships

## DEPARTMENT OF VEGETABLE SCIENCE

S.N.	Name of Student	Registration No.	Scholarships
1.	Velamala Sravani	1020217013	National Fellowship (UGC)
2.	Jayanth S.	1020218005	SRF (ICAR)
3.	Mahesha K. N.	1020219010	SRF (ICAR)
4.	Nagendra	2020218022	JRF (ICAR)
5.	Monu Kumari	2020218020	JRF (ICAR)
6.	Madineni Tejaswini	2020219017	JRF (ICAR)
7.	Umme Fiza	2020219047	JRF (ICAR)

## CAMPUS TO CORPORATE

S.N.	Name of the students	Posting	Designation
1.	Hirpara Hardik	Reliance, Jamnagar	Farm Manager
2.	Gami Meet	Reliance, Jamnagar	Farm Manager
3.	Mehta Nidhi	Navsari	Horticulture Officer
4.	Chaudhari Pooja	Navsari	Horticulture Officer
5.	Chauhan Rinkal	Mumbai	Turf Grass Manager
6.	Patel Prashant	Kutchh (Mandvi)	Entrepreneur
7.	Anjana Mohit	Adani, Ahmedabad	Executive Officer
8.	Pandya Samarth	Adani, Ujjain	Marketing Officer
9.	Chaudhari Ankit	Sayaji seed	Marketing Executive
10.	Savani Jeel	Jain Adhyatmic Parivar Trust, Ahmedabad	Garden Supervisor
11.	Hadiya Gautam	Udan Fresh, Ahmedabad	Senior Executive Market Intelligence
12.	Sirroiya Dhaval	Surat, Torrent Power	Landscape Manager
13.	Barriya Parth	Adama	Marketing Officer
14.	Khandawala Riddhi	Big Basket, Surt	Quality Control Officer



15.	Chawda Jay	Anand	Horticulture Officer
16.	Shah Jigar	Vadodara	Assistant Director of Horticulture
17.	Kalariya Vijay	Surendranagar	Assistant Director of Horticulture
18.	Patel Bhavesh	Junagadh	Horticulture Officer
19.	Patel Ankur	Navsari	Horticulture Officer
20.	Anjali G.P.	Canara Bank	Agriculture Officer
21.	Jasmin B. Lathiya	Bhavnagar	Horticulture Officer
22.	Smit Shah	Adani, Ahmedabad	Horticulture Officer
23.	Avisha Budhani	Bharuch	Horticulture Officer
24.	Priya Ahir	Agrostar, Ahmedabad	Agriculture Advisor
25.	Disha Bhalodiya	Agrostar, Ahmedabad	Agriculture Advisor
26.	Ankita Patel	Navsari	Horticulture Officer
27.	Unnati Patel	Navsari	Horticulture Officer
28.	Dharmistha Patel	Vyara	Horticulture Officer
29.	Riya Desai	Solar eyegreen, Ahmedabad	Sales and Marketing Officer
30.	Armi Navlakhe	Solar eyegreen, Ahmedabad	Sales and Marketing Officer



# Hostel Facilities

## ANSUYA GIRLS HOSTEL



### Accommodation Facilities

Rooms	Beds	Total No. of Allotted Beds
23	69	69

## AHALYA GIRLS HOSTEL



### Accommodation Facilities

Rooms	Beds	Total No. of Allotted Beds
22	44	44





## SWAMI VIVEKANAND HOSTEL



Mini Gym in the Hostel



Sports Facility in the Hostel

### Accommodation Facilities

Rooms	Beds	Total No. of Allotted Beds
68	136	74

## BAGAYAT BOYS HOSTEL



### Accommodation Facilities

Rooms	Beds	Total No. of Allotted Beds
36	108	108

## FORESTRY HOSTEL



### Accommodation Facilities

Rooms	Beds	Total No. of Allotted Beds
30	90	90

## SANKALP PG BOYS HOSTEL



### Accommodation Facilities

Rooms	Beds	Total No. of Allotted Beds
50	100	72



# EXTRA-CURRICULAR ACTIVITIES

## NSS/NCC ACTIVITIES

### NSS ACTIVITIES

S.N.	Activity	No of Volunteers
1	World Yoga Day Celebration	09
2	Blood Donation Camp	22
3	Drawing, Elocution And Essay Competition on Water Conservation	102
4	Independence Day Celebration	24
5	Fit India Running Event	08
6	National Sports Day Speech	40
7	Kuposhan Awareness Programme	19
8	Swachhataa Pakhwadiya Celebration	31
9	Motivational Speech on Mahatma Gandhi Life	24
10	Thalessemia Check -up Camp	70
11	Visit by AB School Students	62
12	Republic Day Celebration	52



## NSS BLOOD DONATION AND THALASSEMIA CHECKUP CAMP: 16 NOVEMBER 2019





Fit India Running programme



Swacchta Pakhwadiya Rally



Kuposhan Awareness Programme



Motivational Speech Event



Drawing Elocution and Essay Competition



Visit of AB School Students to  
NAU, Navsari through NSS



Swachhta Pakhwadiya  
Celebration under NSS



National Sports Day Speech

## NCC ACTIVITIES



Cadets in Turnout



Republic Day celebration



Awareness on *Swachh Bharat* Mission by NCC cadets



# Cultural Activities

## CULTURAL COMPETITION EVENT WISE PARTICIPATION OF STUDENTS

S.N.	Event	Students Total Position			
		Horti.	Forestry		
1	Drama	04	06	10	-
2	Dance	11	00	11	First
3	Mime	06	01	07	-
4	Mono Acting	01	00	01	-
<b>Literary Events</b>					
5	Debate – Favour	01	-	01	First
	Debate – Against	-	01	01	Second
6	Extempore	-	01	01	-
	<b>Total</b>	<b>23</b>	<b>09</b>	<b>32</b>	

## CULTURAL COMPETITION STUDENTS PARTICIPATION IN GUJARAT STATE INTER UNIVERSITY

S. N.	Event	Students
1	Folk Dance	10
2	Debate Against	01
	<b>Total</b>	<b>11</b>



# Games/Sports Activities

## SPORTS

### EVENT WISE PARTICIPATION OF STUDENTS IN INTER COLLEGIATE TOURNAMENTS

S.N.	Event	Students		Total	Position
		Horti.	Forestry		
1	Kabaddi	11	1	12	First
2	Kho-Kho (Boys)	11	1	12	-
3	Chess (Girls)	5	-	05	-
4	Chess (Boys)	4	1	05	-
5	Table Tennis (Girls)	2	2	04	-
6	Table Tennis (Boys)	4	-	04	-
7	Badminton (Girls)	3	1	04	First
8	Badminton (Boys)	6	-	06	-
9	Basketball(Boys)	12	-	12	Second
10	Volleyball (Boys)	9	3	12	-
11	Volleyball (Girls)	10	2	12	-
12	Cricket	12	3	15	-
13	Athletics (Boys)	11	1	12	First
14	Athletics (Girls)	7	1	8	First
	Total	107	16	123	



## SPORTS

### EVENT WISE PARTICIPATION OF STUDENTS IN ALL INDIA INTER AGRICULTURAL UNIVERSITY SPORTS AND GAMES

S.N.	Event	Students		Total	Position
		Horti.	Forestry		
1	Kabaddi	1	-	1	-
2	Badminton (Girls)	-	1	1	-
3	Basketball(Boys)	4	-	4	-
4	Athletics	2	-	2	-
	Total	7	1	8	

## SPORTS

### STUDENTS PARTICIPATION IN GUJARAT STATE INTER UNIVERSITY

S.N.	Event	Students
1	Kabaddi	3
2	Table Tennis (Girls)	1
3	Badminton (Girls)	3
4	Badminton (Boys)	1
5	Basketball(Boys)	4
6	Volleyball (Boys)	1
7	Volleyball (Girls)	3
	Total	16





Ranked at 1<sup>st</sup> position in Inter University Folk Dance Cultural Competition



Ranked 1<sup>st</sup> in Inter collegiate Badminton Tournament



Ranked 1<sup>st</sup> in Inter collegiate Kabaddi tournament

## Students' Profile (8<sup>th</sup> Semester)-Horticulture



01

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# Glimpses of 2019-20



*Van Mahotsav* Celebration





## EXPERIENTIAL LEARNING ACTIVITIES

### DEPARTMENT OF FRUIT SCIENCE



Fruit Plant Nursery

### DEPARTMENT OF VEGETABLE SCIENCE



Vegetable Seedling Nursery



## EXPERIENTIAL LEARNING ACTIVITIES

### DEPARTMENT OF VEGETABLE SCIENCE



Protected Cultivation of Hi-Value Vegetable Crops



## EXPERIENTIAL LEARNING ACTIVITIES

### DEPARTMENT OF FLORICULTURE & LANDSCAPE ARCHITECTURE



Protected Cultivation of Hi-Value Flower Crops



## EXPERIENTIAL LEARNING ACTIVITIES

### DEPARTMENT OF POST HARVEST TECHNOLOGY



Post Harvest Handling and Value Addition in Fruit and Vegetable Crops

## EXPERIENTIAL LEARNING ACTIVITIES

### COLLEGE OF FORESTRY



Visits to Commercial Apiaries



Hand-on-exposure on Beekeeping



Maintenance of Aloe vera germplasm



Intercultural Operations in VMG



Students loading sold out stock



Processing of Seed Lots



Media preparation



Preparation of Melia dubia cuttings

Modern Nursery Seedling Production and Commercial Apiculture





# Educational Tour of B.Sc. (Hons.) Horti. 8<sup>th</sup> Semester Students To North Indian Institutes (2019-20)



Maharana Pratap UA&T, Udaipur, Rajasthan



Buddha Jayanti Park, Delhi



IARI, Pusa, New Delhi



Rashtrapati Bhavan Gardens, Delhi



Zakir Hussain Rose Garden, Chandigarh



Pinjore Gardens, Pinjore, Haryana



Y. S. Parmar UHF, Nauni, Solan



RHRTS, Bajaura (HP)

## FLOWER EXHIBITION AT NAU, NAVSARI



Exhibition on 'Wonder World of Flowers: Ikebana and Contemporary Floral Designs (3-4 January 2020)



Exhibition on Ornamental Plants, 13-18 January 2020

## INTERNATIONAL WOMAN'S DAY CELEBRATION



International Woman's Day Celebration: March 11, 2020







Exposure Visit of PG students (M.Sc.) from the department of Floriculture and Landscape Architecture to National Book Fair and Surat Flower Show -2020, organized by Surat Municipal Corporation at Surat and participation in the Floral Arrangement Competition on 2<sup>nd</sup> February 2020.

Ms. Saryu Trivedi, M.Sc. Hort (FLA) Student secured First Prize in the Flower Arrangement Competition



PG students (M.Sc.) of Department of Floriculture and Landscape Architecture won the Floral Designing Championship at Flora Expo 2020 organized by Media Today Group, Hyderabad (28 and 29 February, 2020)

## First Runners Up at Botanical Fest 2020



Team of five students from ACHF, NAU, Navsari comprising of 04 students from B.Sc. (Hons.) Horticulture and 01 Student from B.Sc. (Hons.) Forestry was adjudged FIRST RUNNERS UP in the event entitled BOTANICAL FEST – 2020. The event was held in February 2020 at Waghai Botanical Garden, organized by South Dangs Forests Division in collaboration with Dept. of Botany, The M. S. University of Baroda, Vadodara. In all 23 teams – 15 from Gujarat state and 08 from other states participated in the event. CONGRATULATIONS TEAMASPEE.



### STUDENT SELECTION IN WILDLIFE INSTITUTE of INDIA: A PROUD MOMENT for COF, ACHF, NAU, NAVSARI

Miss. Zankhna T. Patel, Student of B.Sc. (Hons.) Forestry, 8<sup>th</sup> Semester, 2019, made us proud as she cleared All India Open Test and Personal Aptitude test of one of the most prestigious Wildlife organization. She was selected for M.Sc. in Wildlife Sciences at WILDLIFE INSTITUTE OF INDIA, DEHRADUN. CONGRATULATIONS Ms. ZANKHNA T. PATEL – REALLY PROUD OF YOUR ACHIEVEMENT.



Professional development activities of PG students of the college facilitated by Dr. T.R. Ahlawat and Dr. S.L. Chawla at Indian Horticulture Summit 2020 organized by Society for Horticultural Research and Development at Mahatma Gandhi Chitrakoot Gramodhya Vishwavidyalaya, Chitrakoot, Madhya Pradesh, 14-16 February, 2020 and PG students Suchismita Jena (1020217012), Chaudhari Ritaben Ranjitbhai (2020218008), Bambhaniya Kinjal Kalubhai (2020218004), Sushmitha M B (2020218046) and Panchal Rajeshkumar Kishorkumar (2020216066) made college proud by clinging awards in the Summit.



Dr. T.R. Ahlawat and Dr. S.L. Chawla with PG students  
at Indian Horticulture Summit 2020



Suchismita Jena  
(1020217012)



Chaudhari Ritaben Ranjitbhai  
(2020218008)



Bambhaniya Kinjal Kalubhai  
(2020218004)



Sushmitha M B  
(2020218046)





PG students of Department of Floriculture and Landscape Architecture- Ms. Sangeetha Priya S. (2020217031) and Ms. Ranjita Kulkarni (2020217029) received "Dr. N. C. Gautam Best M.Sc. Thesis Award in Horticulture – 2019" at Indian Horticulture Summit 2020 Organized by Society for Horticultural Research and Development at Mahatma Gandhi Chitrakoot Gramodhya Vishwavidyalaya, Chitrakoot, Madhya Pradesh, 14-16 February, 2020.



Dr Sumathi Thatte (1020213011) receiving "Budding Scientist Award" for her Ph.D. thesis (Floriculture and Landscape Architecture) from Indian Society of Horticultural Research and Development, Uttarakhand during Progressive Horticulture Conclave at Lucknow (December, 8-10, 2019)



Dr Mukesh A. Patel (04-1117-2011) receiving "Budding Scientist Award" for his Ph.D. thesis (Floriculture and Landscape Architecture) from Indian Society of Horticultural Research and Development, Uttarakhand during Progressive Horticulture Conclave at Lucknow (December, 8-10, 2019)



## EXPOSURE VISIT OF HORTICULTURE STUDENTS TO AMUL DAIRY, ANAND





Exposure visit of 7<sup>th</sup> Semester B.Sc. (Hons.) Horti students escorted by Dr. Sanjeev Kumar and Dr. B.N Chaudhari to Centre of Excellence for Protected Cultivation and Precision Farming on Vegetables, Vadrad, Ta. Prantij, Dist. Sabarkantha and Indrola Nature Park, Gandhinagar



# Students' Representative Council 2019-20



Dr. N. B. Patel  
Chairman



Dr. B. N. Patel  
President



Dr. P. K. Shrivastava  
Vice- President



Dr. M. K. Desai  
Co- Chairman



Dr. Jayesh Pathak  
Cultural Advisor



Dr. H. V. Pandya  
Chairman- Placement  
Cell & College  
Magazine



Lt. G. V. Savani  
Editor-College  
Magazine &  
NCC Officer



Dr. M. B. Tandel  
Sports Advisor



Dr. N. K. Patel  
Advisor-  
Indoor Games



Dr. Y. N. Tandel  
Advisor-  
Outdoor Games



Dr. S. M. Patel  
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Outdoor Games



Dr. M. R. Parmar  
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Prof. Kirti Bardhan  
Advisor-  
Literary Events



Lt. (Dr.) Aadil Kazi  
Chairman-  
Nature Club, NCC



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Advisor,  
Alumni Events



Dr. J. M. Vashi  
Programme  
Officer- NSS



Dr. Sudha Patil  
Advisor-  
Girls Activities



Dr. Nilam Patel  
Advisor-  
Girls Activities



Dr. Tulsi D. Gurjar  
Advisor-  
Girls Activities



Sojitra Gopi A.  
General Secretary



Preeti Vats  
Cultural Secretary



Nandaniya Mayuri  
Sports Secretary & CR



Patel Jinal  
Ladies  
Representative (LR)



Lungariya Ajay  
Secretary- CR Outdoor  
Games & CR



Vaghella Yuvrajshhji  
Secretary-  
Indoor Games & CR



Vicky Gurjar  
Secretary- College  
Magazine & CR



Sujith P. P.  
Secretary- Literary  
Events & CR



Delvadiya Avadh  
Secretary- TV Room &  
Reading Room & CR



Rahul Mavi  
Secretary-  
Nature Club & CR



Surela Vipulbhai  
Secretary-  
Alumni Events



Patel Minal  
Secretary-  
Placement Cell





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NNU



NAVSARI AGRICULTURAL UNIVERSITY

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**Navsari Agricultural University**  
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