

ANNUAL REPORT 2017-18



**College of Horticulture
Anand Agricultural University
Anand**

College of Horticulture AAU, Anand

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1. Introduction:

The formation of Horticulture Wing was approved by Government of Gujarat vide their letter No. AKV-122011-3207-K-2, dated 17th April 2012. It is affiliated to Anand Agricultural University, Anand under the B.A. College of Agriculture, AAU, Anand and started functioning as an independent college since 01st April 2017, with intake capacity of 55 undergraduate students and total 68 students have earned their degree from this college since its inception and most of them have been continuing their higher studies and also working in the various fields of horticulture in India and abroad. The following are mandates and functions of the college:

1.1 Mandate

The prime mandate of College of Horticulture is to impart education in the field of horticulture science coupled with research and extension activities. Following objectives have been decided in order to achieve these mandates.

1.2. Objectives:

- ❖ To create the facilities for imparting UG education in Horticulture discipline like fruit, vegetable, flower, plantation and medicinal crops as well as on post harvest technology.
- ❖ To conduct the research on various aspects of Horticulture.
- ❖ To develop skill in the students and gaining knowledge through experiential learning in Horticulture and through rural horticulture work experience.
- ❖ To integrate and coordinate the teaching with research and extension activities of the university.
- ❖ To provide integrated education at all level for creating skill and imparting knowledge among students.
- ❖ To organise horticultural based trainings for the benefits of farmers & rural youth.

2. Management and Administration:

2.1 Staff positions:

Sr. No.	Name of post	Sanctioned	Filled	Vacant
1.	Professor	02	01	01
2.	Associate Professor	04	02	02
3.	Assistant Professor	09	09	00
Total		15	12	03

2.2 (a) Budget Heads:

Sr. No.	Budget Head No.	Sanction grant		Expenditure		Note
		Recurring	Non-Recurring	Recurring	Non-Recurring	
1.	12987-02	33,05,000/-	7,38,000/-	33,04,764/-	6,06,838/-	Main plan budget
2.	18273	38,250/-	----	34,269/-	----	For NSS activities
3.	12865	70,000/-	5,13,000/-	69,679/-	5,12,381/-	For sport activities
4.	12967	80,000/-	----	79,677/-	----	For sport activities
5.	4862	15,000/-	----	15,000/-	----	For game organization
6.	4862 (B)	14,500/-	----	14,250/-	----	For game organization

2.2 (b) Purchased following instruments in the Year 2017-18:

Sr. No.	Name	Quantity	Amount Rs.
1	LCD Projector	01	68,900/-
2	Water Distillation Unit	01	70,875/-
3	Baking Oven	01	99,650/-
4	Infra red moisture balance	01	19,750/-
5	pH meter	01	20,050/-
6	Hand refractrometer (Rang:0-100% salinity)	02	9975/-
7	Hand refractrometer (Rang:0-50% bricks)	02	9576/-
8	Hand refractrometer (Rang:0-85% bricks)	02	24,738/-
9	Hand refractrometer (Rang:58-92% bricks)	02	8977/-
10	Electronic Digital Vernier Calipers	02	6982/-
11	Analytical balance (High precision)	01	29,725/-
12	Bench/ Table top balance (Cap.: 1 Kg)	01	12,768/-
13	Bench/ Table top balance (Cap.: 5 Kg)	01	13,566/-
14	Food Processor	02	23,625/-
15	Glass bed sterilization	01	22,315/-
16	Weighing balance	01	19,950/-
17	Microscope with camera	01	1,45,416/-
Total Rs.			6,06,838/-

3. Education**3.1. Under Graduate****3.1.1. Semester-wise no. of students in UG programme B. Sc. (Hons.) Horti. during academic year 2017-18**

Sr. No.	Semester	Boys	Girls	Total
1	First/ Second	16	18	34
2	Third/ Fourth	24	30	54
3	Fifth/ Sixth	27	23	50
4	Seventh/ Eighth	17	28	45
	Total	84	99	183

3.1.2. Semesterwise courses offered for UG programme: B. Sc. (Hons.) Horti.
(Vth Dean)

Semester –I		Credits
FRT 1.1	Fundamentals of Horticulture	3(2+1)
VEG 1.1	Tropical and Subtropical Vegetables	3(2+1)
NRMH 1.1	Fundamental of Soil Science	3(2+1)
PHT 1.1	Fundamentals of food science and nutrition	2(1+1)
BSC 1.1	Elementary Plant Biochemistry	2(1+1)
BSC 1.2	Principles of Genetics and Cytogenetics	3(2+1)
BSC 1.3	Introductory Microbiology	2(1+1)
SSC 1.1	Information and communication technology	2(1+1)
SSC 1.2	Economics and Marketing	3(2+1)
SSC 1.3	Physical and Health Education	1(0+1)(NC)
Total		23(14+09)+1=24
Semester –II		
FRT 2.2	Plant Propagation and Nursery Management	2(1+1)
FLA 2.1	Ornamental Horticulture	2(1+1)
NRMH 2.2	Soil Fertility and Nutrient Management	2(1+1)
NRMH 2.3	Water Management in Horticultural Crops	2(1+1)
PPT 2.1	Fundamentals of Plant Pathology	3(2+1)
NRMH 2.4	Agro-meteorology and Climate Change	2 (1+1)
BSC 2.4	Introductory Crop Physiology	2(1+1)
BSC 2.5	Principles of Plant Breeding	3(2+1)
SSC 2.4	Elementary Statistics and Computer Application	3(2+1)
SSC 2.5	Communication Skills and Personality Development	2(1+1)
SSC 2.6	National Service Scheme/National Cadet Corp	1(0+1)(NC)
Total		23(13+10)+1=24
Semester –III		
FRT 3.3	Temperate Fruit Crops	2(1+1)
VEG 3.2	Temperate Vegetable Crops	2(1+1)
VEG 3.3	Precision Farming and Protected Cultivation	3(2+1)
FLA 3.2	Commercial Floriculture	3(2+1)
NRMH 3.5	Organic Farming	2(1+1)
PPT 3.2	Fundamentals of Entomology	3(2+1)
PPT 3.3	Nematode pests of Horticultural crops and their Management	2(1+1)
BSC 3.6	Elementary Plant Biotechnology	2(1+1)
BSC 3.7	Growth and Development of Horticultural Crops	2(1+1)
Total		21(12+9)
Semester –IV		
FRT 4.4	Tropical and Subtropical Fruits	3(2+1)
FRT 4.5	Plantation Crops	3(2+1)
FRT 4.6	Breeding of Fruit and Plantation Crops	3(2+1)
VEG 4.4	Spices and Condiments	3(2+1)
FLA 4.3	Principles of Landscape Architecture	2(1+1)

PPT 4.4	Diseases of fruit, Plantation, Medicinal and Aromatic Crops	3(2+1)
PPT 4.5	Insect Pests of Fruit, Plantation, Medicinal & Aromatic Crops	3(2+1)
NRMH 4.6	Farm Power and Machinery	2(1+1)
NRMH 4.7	Soil, Water and Plant Analysis	2(1+1)
Total		24(15+09)
Semester – V		
FRT 5.7	Orchard and Estate Management	2(1+1)
FRT 5.8	Dry land Horticulture	2(1+1)
VEG 5.5	Potato and Tuber crops	2 (1+1)
VEG 5.6	Breeding of Vegetable, Tuber and Spice Crops	3 (2+1)
PHT 5.2	Postharvest Management of Horticultural Crops	3(2+1)
NRMH 5.8	Weed Management in Horticultural Crops	2 (1+1)
PPT 5.6	Diseases of Vegetables, Ornamentals and Spice Crops	3 (2+1)
PPT 5.7	Insect Pests of Vegetable, Ornamental and Spice Crops	3(2+1)
SSC 5.7	Fundamentals of Extension Education	2 (1+1)
Total		22(13+9)
Semester – VI		
VEG 6.7	Seed production of Vegetable, Tuber and Spice Crops	3(2+1)
FLA 6.4	Breeding and Seed Production of Flower and Ornamental Plants	3(2+1)
FLA 6.5	Medicinal and Aromatic Crops	3 (2+1)
PHT 6.3	Processing of Horticultural Crops	3(1+2)
NRMH 6.9	Introduction to Major Field Crops	2 (1+1)
NRMH 6.10	Introductory Agroforestry	2 (1+1)
NRMH 6.11	Environmental Studies and Disaster Management	3(2+1)
PPT 6.8	Apiculture, Sericulture and Lac culture	2(1+1)
SSC 6.8	Horti-Business Management	2(2+0)
SSC 6.9	Entrepreneurship Development and Business Management	2(1+1)
Total		25(15+10)

Semester – VII Experiential Learning Programme (ELP)

Following modules were finalized by SAU's under ELP as per Vth dean where student undergoing ELP may be allowed to register for maximum two modules:

Course No.	Title of the Course	Credit Hours
HWE 7.1	Protected cultivation of High Valued Horticultural Crops	0+10
HWE 7.2	Commercial production of Horticultural planting materials	0+10
HWE 7.3	Post Harvest Handling and Value addition in Horticultural crops	0+10

Semester – VIII Rural Horticultural Work Experience Programme(RHWE)

Following RHWE courses offered for UG programme in Eighth Semester:

Course No.	Title	Credit Hours
RHWE 8.1	Visit to progressive farmer's field and NGO	0+2
RHWE 8.2	Educational tour	0+2
RHWE 8.3	University farms (JAU) and Visit to horticulture based industries of Saurashtra region	0+4
RHWE 8.4	University farms (AAU) and Visit to horticulture based industries of Middle Gujarat region	0+4
RHWE 8.5	University farms (SDAU) and Visit to horticulture based industries of North Gujarat region	0+4
RHWE 8.6	University farms (NAU) and Visit to horticulture based industries of South Gujarat region	0+4

3.1.3. Details of Experiential Learning Programme (ELP) and Rural Horticulture WorkExperience (RHWE) offered during VII & VIII semester by college:

This section is further subdivided into following parts:

3.1.3.1 Experiential Learning Programme (ELP)

- I. HWE 7.2: Commercial production of Horticultural planting materials
 - A. HWE 7.2.1: Propagation and Production of Propagules
 - B. HWE 7.2.2: Packing & Marketing of Planting materials

Following contents are covered under this experiential learning programme:

Sr. No.	Name
1.	Introduction of nursery
2.	Different nursery tools and implements
3.	Establishment of nursery
4.	Different types of nursery media
5.	Different types of nursery beds
6.	Bag filling
7.	Seed treatment
8.	Sexual propagation
9.	Asexual propagation

Sr. No.	Name
10.	Preparation of papaya seedlings
11.	Preparation of jamun seedlings
12.	Preparation of lime seedlings
13.	Preparation of drumstick seedlings
14.	Transplanting of seedlings
15.	Plug tray nursery technique
16.	Air layering in guava
17.	Wedge grafting in mango
18.	Hard wood cutting in phalsa



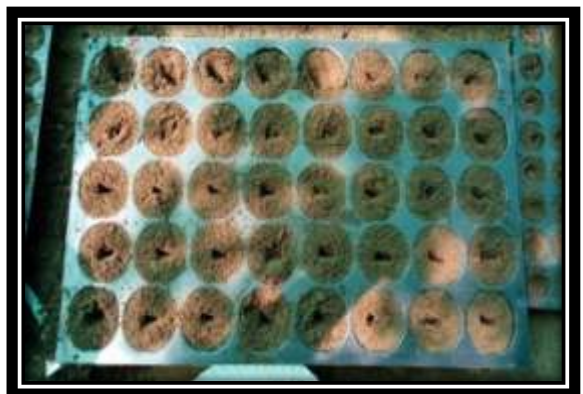
Sowing of papaya seeds in bed



Drumstick plants in poly bags



Preparation of seed beds



Sowing of exotic vegetables seeds in plug tray



Filling of potting media in poly bags



Watering in nursery bed

II. HWE.7.3: Post Harvest Handling and Value Addition in Horticultural crops

A. HWE 7.3.1 Preparation and Evaluation of Processed Product

B. HWE 7.3.2: Packing and Marketing of Processed Product

Following products were prepared under HWE 7.3.1 & 7.3.2:

Sr. no	Name of product	Sr. no	Name of product
1.	Artificial jelly	17.	Potato chips
2.	Papaya nectar	18.	Potato wafers
3.	Papaya Appetizer	19.	Alovera nectar
4.	Papaya beverages	20.	Lime appetizer
5.	Groundnut chutney	21.	Lime syrup
6.	Instant Groundnut chutney	22.	Lime RTS
7.	Moringa leaf powder (Blanched)	23.	Lime squash
8.	Moringa leaf powder (un-Blanched)	24.	Lime juice
9.	Aonla RTS	25.	Pineapple jelly
10.	Aonla murabba	26.	Tomato ketchup
11.	Aonla ginger murabba	27.	Aonla pickle (salt)
12.	Aonla jam	28.	Aonla pickle (oil)
13.	Aonla candy	29.	Aonla pickle (vinegar)
14.	Canning of Aonla	30.	Aonla juice
15.	Karonda crush	31.	Aonlapomace powder
16.	Karonda spread	32.	Aonla appetizer



Different products prepared under HWE 7.3.1 & 7.3.2



Peeling of pineapple fruit



Cutting of cucumber



Extraction of juice from aloe vera leaves



Washing of aonla fruits



Preparation of sugar syrup



Pricking of aonla fruit



Separation of moringa leaves for drying



Selling of product by student at AAU campus

3.1.3.1.HWE 7.3:

Post Harvest Handling and Value Addition in Horticultural crops(0 +10)

which is divided into two parts:

A. HWE 7.3.1:Preparation and Evaluation of Processed Product

B. HWE 7.3.2: Packing and Marketing of Processed Product

3.1.3.2. RHWE visit during Eight Semester:

I. RHWE 8.2 EDUCATIONAL TOUR:

Following centers of three states viz. Maharashtra, Goa and Karnataka were visited under educational tour.

Sr. no.	Name of Centers
1.	National Research Centre for Onion & Garlic, Pune
2.	National Research Centre for Grape,Manjri Farm, Pune
3.	College of Agriculture, Pune
4.	Mapro garden & chocolate plant, panchgani, MH
5.	Apiculture Institute & Beekeeping Centre at Mahabaleshwar
6.	Dr. BalasahebSawantKonkanKrishiVidhyapeeth, Dapoli

7.	Regional fruit research station, Vengurla
8.	ICAR - Central Coastal Agricultural Research Institute, Goa
9.	University of Horticulture Science, Dharwad
10.	University of Horticultural Sciences, Bagalkot
11.	MPKV, Rahuri (MS)
12.	Jain Processed Foods Pvt. Ltd., Jalgaon.

II. RHWE JAU, Junagadh

RHWE.8.3: Visit to JAU, University farms, farmers fields and Horticulture based industries and NGO of Saurashtra region

Following Centers of Junagadh Agricultural University (JAU) were visited under Rural Horticulture Work Experience (RHWE):

S. No.	Name of Centers
1	Anand to BAPS farm-Gondal and Junagadh
2	Veg. Res. Station/Food testing lab/College of Agri.,Junagadh
3	Nursery activities of Saurashtra region including Anil Bagh/ Kureshibagh& Nursery
4	Private farms of mango and other fruit crops,KVK/Mangrol-Sharda gram/Betel vine farm/Organic farming (Indrda)
5	College farms,Visit of LalBagh /Botanical garden/sakkarbagh
6	Vajubhainivadi ,Talala, Gir/ Coconut and areca nut gardens of Veraval/Kodinar-Sugar Factory/ Visit to Progressive farmer's field and NGO (Ambuja)
7	Onion dehydration unit/Agril. Expt. Farm, Mahuva& Return to Anand

III. RHWE AAU, Anand

RHWE.8.4 Anand Agricultural University (AAU): University farms (AAU) and visit to horticulture based industries/farmer's field and NGO of Middle Gujarat region

Following Centers of AnandAgricultural University (AAU) were visited under RuralHorticulture Work Experience (RHWE):

S. No.	Name of Centers
1	Ornamental nursery, Organic farming cell, BACA, Agril.Edu museum/ Horti. farm, Nursery and Green house
2	Main Vegetable Research Station/Regional Research Station/ micronutrient project
3	College of FPT & Bio-energy,Post harvest tech. unit/ Tissue culture laboratory and Residual Analysis lab
4	Bio-control laboratory and Medicinal and aromatic centre with its nursery
5	WALMI Unit/ Medi. &Aromatic Research Station, Boriavii (ICAR)
6	Central Horticulture Exp. centre Godhra (Vejalpur) , Kankanpur-CAET

	Dahod, Satguru foundation
7	Baroda- KamatiBagh/GSFC/AjwaNimeta Gardens/ Poly tech in Horti./ Private green houses/Roses garden nursery/Om agri freeze food/Universal ISO-med
8	Visit to Progressive farmer's field & NGO / Nursery activities of Anand region/ Value addition project of Anand region

IV. RHWE SDAU, S. K. Nagar

RHWE.8.5 SardarkrushinagarDantiwada Agri. Uni. (SDAU): University farms (SDAU) and visit to horticulture based industries/farmer's field and NGO of North Gujarat region

Following Centers of S. D.Agricultural University (SDAU) were visited under Rural Horticulture Work Experience (RHWE):

S. No.	Name of Centers
1	Date palm Res.Station/Progressive Farmers of Kutchh region/NGO
2	Kutchh to SDAU
3	Potato Res. Station/KVK/Cold storage unit Deesa /Pomegranate growers of BK
4	Banas Dairy and Bee keeping centre at Banas dairy (Palanpur), Visit to Progressive farmer's field
5	Agro forestry centre, Olive plantation/Horti. Farm (CPCA)
6	APMC, Unja, College of Horti., Spices Res station, Jagudan
7	Centre of excellence for protected vegetable, Vadrada (SK), Fruit Res. Station Dehgam/ Anand farm & Nursery / processing unit of aonla/ Akshardham garden and Return to Anand

V. RHWE NAU, Navsari

RHWE.8.6 Visit to NAU, University farms and visit to horticulture based industries/farmer's field and NGO of South Gujarat region

Following centers of NaavsariAgricultural University (NAU) were visited under Rural Horticulture Work Experience (RHWE):

S. No.	Name of Centers
1	Agri. Res.Station/Agri. College, Bharuch
2	Aspee college of horti. and farm, NAU, Navsari
3	Forestry college/ Soil and water Res. Sta./PHT unit
4	Co-op society- Amalsar or Gadath/ Banana pseudo stem processing plant
5	Manmohan Apiary/ Fruit Res. Station, Gandevi
6	Regional fruit Res. Station, Paria
7	Commercial Vegetable/ Floriculture farm of private farmers
8	Visit to Progressive farmer's field and NGO (BIAF) & Return

RHWE visits during Eight Semester



Jain irrigation - Jalagaon



National Research centre for Grapes-Pune

Centers visited under RHWE 8.1



College of Agriculture - Dharwad



Vegetable research station, JAU



Visit to KVK, Dahod



Roses Nursery – Vadodara



Sadguru foundation – Dahod

Centers visited under RHWE 8.3 & 8.4 (JAU & AAU)



Rajkamal fruit cold storage



Genabhai Farm - Deesa

Centers visited under RHWE 8.5 (SDAU)



Precision farming development centre



College of Agriculture, NAU, Bharuch

Centers visited under RHWE 8.6 (NAU)

3.2. Post Graduate:

Following faculties act as a major guide:

Sr. No.	Name of major guide	Students		Total
		Ph.D.	M.Sc.(Horti.)	
1.	Dr. H. C. Patel	04	----	04
2.	Dr. B. N. Satodiya	----	03	03
3.	Dr. R. R. Gajera	----	02	02
4.	Dr. D. D. Parekh	----	02	02
Total				11

4. Research carried out by College of Horticulture:

During the year 2017-18 following experiments were conducted under College of Horticulture:

Horticulture:

- Effect of different plant spacing on growth and yield of capsicum under open ventilated poly house
- Evaluation of vegetables during different season under different shade net condition
- Effect of nitrogen and phosphorus on growth, flowering and yield of gladiolus (*Gladiolus grandiflorus* L.) cv. American Beauty under middle Gujarat Agro climatic conditions
- Nutrient management through organics in onion (*Allium cepa* L.) as intercrop in sapota orchard

Crop Protection:

- Evaluation of Botanicals against Powdery mildew of Fenugreek.
- Bio-efficacy of agrochemical against bacterial canker (*Xanthomonas axonopodis* pv. *citri*) in citrus.
- Bio-efficacy of different insecticides against leaf webber infesting mango.

Crop Improvement:

- Evaluation of sesame genotypes in summer season along with molecular characterization

Post Harvest Technology:

- Development of value added product containing wheat and chickpea *ponk*.
- Technology for production of Indian gooseberry (aonla) murabba
- Production technology for clarified wood apple juice
- Development of production technology for vegetable based juice from carrot and tomato
- Development of functional low calorie muffins.

Social Sciences:

xiv. Growth and dimension change in cropping pattern in Gujarat.

xv. Evaluation of statistical models for forecasting area, production and productivity of fruit crops in Gujarat

5. Extension Education: As per Appendices 6 & 7

6. Student welfare:

This section is divided into following parts:

6.1. NSS volunteers participated in Regular and Special activities during year 2017-18

A. Regular Activities

B. Special Activities

6.2. Student Activities during year 2017-18

A. Sports Activities

B. Other Activities

6.1 NSS volunteers participated in Regular and Special activities during year 2017-18:**Regular Activities:**

Sr. No.	Activity	Date	SC		ST		OBC		General		Total		Grand Total
			M	F	M	F	M	F	M	F	M	F	
1	Swachhta Pakhwa	1/08/17 to 15/08/17	2	3	1	8	12	7	9	12	24	30	54
2	Nashabandhi jagurtiane debate programme	2/10/17	3	3	2	8	13	8	10	13	28	32	60
3	Lecture on "Today's Youth"	7/10/17	3	3	2	8	13	8	10	13	28	32	60
4	Workshop on build yourself	11/11/17	3	5	5	9	18	12	20	23	46	49	95
5	Thelesemia Awareness Programme & test	18/11/17	2	2	4	3	6	5	7	8	19	18	37
6	Leadership and entrepreneurship training programme	15/2/18 to 16/2/18	5	3	4	8	17	10	14	17	40	38	78
7	Counseling Seminar	27/2/18	3	5	4	8	17	11	18	24	42	48	90

Special Activities:

Special activities camp was organized at village Gopalpura, Ta. and Di. Anand. In this camp total 54 volunteers were participated during 25-3-2018 to 31-03-2018 for seven days.

(A) Regular activities

1. Celebration of “SwachhtaPakhwara”

As per the decision taken by ministry all the NSS units will do activities/programmes during the 01-15th August, 2017. For the same a mega event for celebration of “SwachhtaPakhwara” at college level was organized, where all the volunteers and faculties of college remains present. Volunteers devoted for cleaning each and every part of our college like classrooms, laboratories and surrounding area of college as well as their hostel rooms. The event was end with SwachhataShapat (Oath). In this programme total 54 volunteers participated and faculties of the college also join for cleanness of the college premises.



SwachhtaPakhwara



2. Workshop on build yourself

A one day work shop on “Build yourself” was organize by National Service Scheme, College of Horticulture, AAU, Anand under the Auspious of ShantikunjHaridwar with the help of “Devine India Youth Association”, Anand Chapter on date 11/11/2017. During this

one day work shop different types of group activities and motivational lecture to students were delivered by different members of “Devine India Youth Association”. The main aim of the workshop was that students should learn about: Stay positive and happy. Work hard and don't give up hope. Be open to criticism and keep learning. Surround yourself with happy, warm and genuine people. Stay true to yourself, yet always be open to learn. In this workshop total 95 students and staff members of college were remain present.



Workshop on build yourself



3. Thalassemia awareness programme and test:

An awareness programme on Thalassemia was successfully organized by National Service Scheme, College of Horticulture and B.A.College of Agriculture, AAU, Anand in collaboration with Indian Red Cross Society, Ahmedabad on 18-11-2017 at Examination hall, B.A.College of Agriculture. In this programme short movie on Thalassemia was displayed by Red Cross Society. About 37 volunteers gave their blood sample for Thalassemia test.



4. Lecture on “Today’s Youth”

A lecture on “today’s youth” was arranged by National service scheme, College of Horticulture, AAU, Anand. In this programme Dr.H,C.Patel, Principal, College of Horticulture and other faculty members remains present. Shri HareshbhaiShani, Administrator of SaurashtraKedvaniMandal, V.V.Nagar delivered a talk on today’s youth. He focus on the term youth is often associated with vibrancy, joyfulness, enthusiasm and passion. This is because people belonging to the young generation are full of life. Dr.H.C.Patel, Principal, College of Horticulture highlighted the duty of the parents to nurture their children and help them for becoming good human beings. Teachers also play a major role in building the youth of the nation. They must take their responsibility seriously. By nurturing honest and committed individuals they are building a strong nation. In this programme total 60 volunteers participated.



5. Nashabandhijagurtiane debate programme

At University level one programme on “Nasabhandhi and their rules and debate” was organized jointly by AAU, Anand and NashabandhianeAbkariVibhag, Anand on 2nd October, 2017. The main aim of this programme is that students can understand about new rules and regulation about Nashabandhi and how they can avoid such drug like tobacco, alcohol etc. After that debate and students were participated from all the college and the students of College of Horticulture won first as well as second prize in the competition. In this programme Hon’ble vice chancellor, Dr.N.C.Patel, Director of Research, Dr. K,B.Katheria and Director of students welfare, Dr.S.H.Akbari remains present. In this programme our 60 volunteer participated with NSS programme officer.





6. Leadership and entrepreneurship training programme

Anand Agricultural University, Anand and NCCSD jointly organized a training programme on Leadership and entrepreneurship during 15-16 February, 2018 in this programme during inauguration session Dr, K.P.Patel, Dean Faculty of Horticulture, Dr.S.H.Akbari, Director of students welfare, Dr.H.C.Patel, Principal, College of Horticulture and members of NCCSD, Ahmedabad remains present. In this event total 78 students participated.

In this training programme students learn about skill development, time management, how to work in group and how to become a leader, some tips on how to face an interview. By various activities performed in groups during two days programme.





7. Counselling Seminar

For preparation of different competitive examination such as UPSC, GPSC, IBPS a lecture based seminar was organized by College of Horticulture, Anand Agricultural University, Anand for the fifth and seventh semester students. The lecture was delivered by Shri Chirag Patel, Director of Dhyay Carrier Academy. The syllabus of different competitive examinations and details guidelines for preparation of this examination and how to face interview was discussed in front of the students. In this lecture total 90 students and staff of the college were remain present.



(B) Special activities

A special camp of NSS Volunteers was organized by College of Horticulture, Anand Agricultural University, Anand at village Gopalpura , Ta. Anand, Dist. Anand during 25/03/2018 to 31/03/2018. Total 54 students were participated in this special camp. During the course of their stay, NSS volunteers had conducted various following activities in village.

- ❖ Survey of village and facilities available at Co-operative society
- ❖ Swachh Bharat Abhiyan
- ❖ Preparation and presentation of posters on *BetiBachaoBetiPadhao*” and “*Save water*”
- ❖ Rally on “*VyasanMuktiAbhiyan*”.
- ❖ Snake show at primary school of Village
- ❖ Preparation of artificial sparrow house
- ❖ Visit to Water and Land Management Institute (WALMI) and Greenhouse and horticultural farm
- ❖ Visit to Narayan dairy farm
- ❖ Tree plantations

On 31st March in closing ceremony in Special Camp with blessings by Dr.H.C.Patel Principal, College of Horticulture, Dr.K.P.Patel, Dean, B.A. College of Agriculture, Dr. S.H. Akbari, Director of Student welfare, Dr.N.I.Shah, Professor and Head, Department of Horticulture, Smt.Vidhyaben Patel, Sarpanch of the village and other faculty members of College of Horticulture were present.



Interaction with school children



NSS volunteers



Sarpanch giving information on a village



Demostration of making of paneer & gulab jamun



SWACHH BHARAT ABHIYAN- Cleaning of Village



Posters making competition



Rally on Vyasana Mukti Abhiyan



Allocation two minute game



Preparation & distribution of sparrow house





Snake show



WALMI at Anand

Roses Nursery at Vadodara



Narayan Dairy Farm

Sayaji Baug



Quiz competition



Tree plantation programme



Sardar Patel Memorial



Dignitaries in closing ceremony



Price distribution

6.2. Student Activities 2017-18:

Students of our college have been actively participated in various events conducted by college, university, state inter-universities and all India interuniversity level during the year 2017-2018.

A. Sports activities:

I. **Tournament Organized:** Inter College Cricket organized by our college during 03-08/02/2018



Inter college cricket tournament



II. **Participation in different tournaments:**

The students of College of Horticulture were participated in various sports meets during the year 2017-18 as per following details.

S. No.	Activities	Date	Organizing college of AAU	No. of students participants from the college
1	Cultural and Literary Programme	30/09/2017	Dairy Science	30
2	Volley ball (Men)	04/11/2017	College of Agriculture, Vaso	12
3	Volley ball (Women)	04/11/2017	College of Agriculture, Vaso	9
4	Chess	03/10/2017	IABMI	5
5	Badminton (Women)	06/10/2017	BACA	4
6	Badminton (Man)	06/10/2017	BACA	5
7	Kho-Kho	14/11/2017 to 15/11/2017	College of Veterinary & AH	12
8	Cricket	03/02/2018 to 08/02/2018	College of Horticulture	14
8	Kabaddi	11/11/2017	CEAT, Godhra	12
9	Athletics	21/02/2018 to 22/02/2018	College of FPT & BE	16
10	Fine Arts	26/01/2018	BACA	2

III. National players in cultural:

Participate in All India Inter Agricultural Universities Youth Festival (2017-2018), 10-19/02/2018 at Tirupati, Rajasthan.



Patel Disha M.



Bhati Mansi



Kidia Yash

IV. National players in sports:

Participate in All India Inter Agricultural Universities Sports & Games (2017-2018) 30/01 to 03/02/2018 At GKVK, Bengaluru



Barad Kajal



Modhavadiya Riddhi







Patel Khushbu






Chaudhari Rita R.

V. University players:

No	Name	Photo	Games	Place
1	Panchasara Rajendra S.		Kabaddi	AAU, 24-25/11/2017
2	Chaudhary Jeetubhai C.		Cricket	JAU, 17-18/03/2018
3	BaradKajal B.		Volley Ball	NAU, 4-6/11/2017
4	ModhavadiyaRiddhi K.		Volley Ball	NAU, 4-6/11/2017
5	Patel Khushbu M.		Volley Ball	NAU, 4-6/11/2017
6	Chaudhari Rita R.		Volley Ball	NAU, 4-6/11/2017
7	Patel Shreya M.		Debate	NAU 05/10/2017
8	Patel Sonu B.		Debate	NAU 05/10/2017

9	Mime team 1. Kidiya Yas K. 2. Chaudhary Hemal J. 3. Prajapati Jigar J. 4. Arvadiya Dharmesh J. 5. Chauhan Jay D. 6. Paladiya Yogesh N.		Mime	NAU 05/10/2017
10	Folk Dance 1. Suthar Dhara P. 2. Patel Disha M. 3. Dhvani Modi B. 4. Sonara Vashila M. 5. Sojitra Namrata H. 6. Kasundra Hasti C. 7. Sanghani Janvi M. 8. Patel Payal S. 9. Chudasama Kajal A. 10. Mathukiya Hemangi M.		Folk Dance	NAU 05/10/2017

VI. Inter university competition:

Sr. No.	Name	Photo	Rank
1	Patel Shreya M.		2nd Position in Debate competition
2	Patel sonu B.		2nd Position in Debate competition
3	Bhati Mansi I.		2nd Position in Cartooning (Fine Arts) competition

4	VolleyBall (Women) 1. BaradKajal B. 2. Chaudhari Rita R. 3. ParmarBhumika M. 4. AkhajaDhara H. 5. Modhvadiya Riddhi K. 6. Patel Khushbu M. 7. RajatiyaPuri H. 8. ParmarFalguni R. 9. GohilMital B.		Champion
5	Mime		Champion
6	Folk dance		Champion

VII. Inter college Athletics 2017-18:

Sr. No.	Name of Participate	Name of Events	Position
1	Patel Purvi	Shot put (Women)	First
2	Patel Purvi	Disc throw (Women)	First
3	KamaniAnkita	100 M Race (Women)	Third
4	GanvitSnehal	Long Jump (Women)	Third
5	Patel Purvi AkhajaDhara RathodBhavna KamaniAnkita	4 x 100 Relay (Women)	Second

Representation of College of Horticulture in Basic Mountaineering Course:

Sr. No.	Name	Duration	Place
1	PanchasaraRajendra S	11-09-2017 to 20-09-2017	Mount Abu
2	GodhaniMehul V	11-09-2017 to 20-09-2017	Mount Abu

B. Other Activities:

- I. **Celebration of Agriculture Education Day:** On this occasions Elocution Competition was organized during the date 03/12/2017 and our two students were participated.



- II. **Farmers First for Conserving Soil and Water Resources in Western Region (FFSCWR- 2018):** On this occasion cultural program was organized on dated 01/02/2018. Ten students our college performed the Gujarati Garba.



- III. **52nd Annual Convention of ISEA:** On this occasion cultural program was organized on dated 08/01/2018. Ten students of our college performed the Gujarati Garba.



IV. Celebration of World Soil Day: On this occasion poster presentation and present competition was organized on dated 02/12/2017. Thirty students of our college were participated at UG level competition on “No Soil, No Life” among them two students got second and third position.

Sr. No.	Name of Student	Position
1	Lunagariya Monika M.	Second
2	PrajapatiJeegarkumar J.	Third



World Soil Day

V. Celebration of Sardar Patel Jayanti: On this occasion ‘Run For Unity’ programme on 31/10/2017 was organized by DSW office, AAU, Anand and fifty students of our college were participated.



Run for unity

VI. College Activities:

College conducted various activities such as Fresher's party, Navratri, Mahayagn, Inter semester sports and others. Photograph of various activities are given below.

College of Horticulture - Photo Gallery



GayatriMahayagn 23/11/2017





Fresher party-23/11/2017



Navratri -2017





Badminton



Kabaddi



Volley ball (Man)



Volley ball (Women)

Ahletics-2017-18





Kho-Kho



Fine Arts Compitation 2017-18



**Adroit, World Food Day-2017-18
Sport week 2017-18**



Inter semester volley ball (Man)



Inter semester volley ball (Women)



Inter semester Fine Arts Competitions



Inter Semester Debet and Quiz Compitation



Inter semester badminton (Man)



Inter semester badminton (Women)



Food Competition



Fruits and Vegetables dish preparation



Group discussion competition



Just A minute competition



Prize Distribution of Sport week 2017-18

3rd Annual day “Petals 2018” Function- Photo Gallery



Opening Ceremony Petals 2018



Certificate and Medal distributions Petals-2018



Chief Guest lecture



Presidential Address



Cultural program Petals-2018



Garba- petals-2018



Rangoli- Petals 2018

7.University Library: Not Applicable

APPENDIX-1

Civil Works Completed

- ❖ Constructed Class Rooms, Laboratories, Seminar Hall, Offices, Garden, Net house, Garage etc of College of Horticulture.

APPENDIX-2

Civil Works on hand:NIL

APPENDIX-3

Budget wise sanction grant and expenditure

Following schemes of college were sectioned under different budget heads:

Sr. No.	Budget Head No.	Sanction grant		Expenditure		Note
		Recurring	Non-Recurring	Recurring	Non-Recurring	
1.	12987-02	33,05,000/-	7,38,000/-	33,04,764/-	6,06,838/-	Main plan budget
2.	18273	38,250/-	----	34,269/-	----	NSS activities
3.	12865	70,000/-	5,13,000/-	69,679/-	5,12,381/-	For sport activities
4.	12967	80,000/-	----	79,677/-	----	For sport activities
5.	4862	15,000/-	----	15,000/-	-----	For game organization
6.	4862 (B)	14,500/-	----	14,250/-	----	For game organization

APPENDIX-4

List of Research papers published

International Journal:

1. Bhise Sureshand Kaur A. (2017). Synergistic effect of polyols and fibres on baking, sensory and textural quality of bread with improved shelf life. *Intl. J. Current Microbio Applied Sci*, **6(11)**: 1-12.
2. Gajera R.R., Joshi D.C. and Ravani A. (2017). Processing potential of bottle gourd (*L. siceraria*) Fruits: An overview. *Intl. J. Herbal Medicine*, **5(4)**: 106-109.
3. Gupta Rahul, Kaur S.S., Thind, A. and Bhise Suresh (2017). Development of chicken meat cutlets incorporating carrots and oats as functional ingredients. *Intl. J. Food Ferment Technol*, **7(1)**: 41-53.
4. Nagar Pawan K, Satodiya B.N., Dhaduk H.L. and Prajapati D.G.(2017). Genetic variability and bio-chemical screening of guava (*Psidium Guajava* L.) hybrids. *Intl. J. Chemical Studies*, **5(6)**:143-146.
5. Parekh D. D., Masu M. M., Satodiya B. N., Patel H. C. And Shah N. I. (2018). Effect of different spacing and plant growth regulators on growth parameters of spider lily under middle Gujarat agro climatic conditions. *Intl. J. Scien. Environment*, **7(1)**:292-298.

6. Patel K. A., Khanorkar S. M., Damor A. S. And Parmar H. K. (2017). Microsatellite based molecular characterization and genetic diversity analysis of maize (*Zea mays* L.) inbred lines. *Int. J. Agri. Env. Biotech.*, **10 (6)**:773-777.
7. Prajapati D.G., Satodiya B.N. and Nagar Pawan (2017). Effect of storage period and growing media on seed germination and physiological attributes of acid lime seedling (*Citris aurantifolia* Swingle) cv.Kagzi. *Intl. J. Chemical Studies*, **5(5)**:1945-1948.
8. Prajapati D.G., Satodiya B.N., Dasai A. B. And Nagar Pawan (2017). Influence of storage period and growing media on seed germination and growth of acid lime seedlings (*Citris aurantifolia* Swingle) cv.Kagzi. *Intl. J. Chemical Studies*, **6(4)**:1641-1645.
9. Prajapati H. N., Patil, R. K. and Shukla, Y. M. (2017). Studies on biochemical changes and changes in cell wall degrading enzymes in papaya fruit inoculated with *Colletotrichum demetium*. *Intl. J. Current Microbiology*, **6(7)**:1-9.
10. Shukla P., Bajwa U. and Bhise Suresh (2017). Effect of industrial processing on HMF generation in sucrose – milk protein model system. *Intl. J. Agric Environment Biolotechnol*, **10(04)**: 429-434.
11. Shukla P., Bajwa U. and Bhise Suresh (2017). Effect of storage on quality characteristics of pasteurized mango based milk beverages. *Intl. J. Current Microbio Applied Sci.*, **6(11)**: 3446-3456.
12. Vasara R.P., Satodiya B.N., Tsomu T. T and Kore, P.K. (2017). Effect of tying materials on softwood grafting in mango (*Mangifera indica* L.) cultivars under middle Gujarat conditions. *Intl. J. Chemical Studies*, **5(5)**:84-96.

National Journal:

13. Chaudhari H. K., Patel B. R., Parmar H. K., Prajapati S. K., Patel B. D., and Chaudhary Ramesh (2017). Heterosis for cured leaf yield and its component traits in bidi tobacco (*Nicotiana tabacum* L.). *Res. Environ. Life Sci.*, **10 (7)**: 606-611.
14. Gajera R.R. and Joshi D.C. (2017). Effect on juice quality of medicinal fruit bottle gourd during storage. *Journal of Medicinal Plants Studies*, **5(4)**:56-60.
15. Gajera R.R. and Joshi D.C. (2017). Processing of fruits and vegetables for its juicing, A Review. *GAU Research Journal*, **42(2)**:52-59.
16. Gajera R.R., Joshi D.C. and Ravani A. (2017). Effect of formulation on quality of Bottle Gourd (*L. Siceraria*) blend juice. *Chemical Science Review and Letters*, **6(23)**: 1716-1723.

17. Jadeja J. M., Patel D. A., and Parmar H. K. (2017). Genetic divergence study for seed yield and its components in soybean (*Glycine max* (L.) Merrill). *New Agriculturist*, 28(1): 265-268.
18. Joshi V. I., Patel H. C., Patel J. S. And Patel P. D. (2017). Role of organic manures, nitrogen and phosphorus on growth and seed yield of okra (*Abelmoschus esculentus* L. Moench). *Trends in Bio Sciences*, 31(10):6678-6882.
19. Joshi V. I., Patel N.A., Acharya R.R., Satodiya B.N. and Patel P.D.(2017). Impact of Decapitation and PGR's on seed yield and its attributes in cluster bean cv. Pusa Navbahar. *Trend in Biosciences*, 10(35):7352-7354.
20. Joshi V. I., Patel N.A., Acharya R.R., Satodiya B.N. and Patel P.D.(2017). Impact of Decapitation and PGR's on seed yield and its attributes in cluster bean [*Cyamopsis tetragonoloba* (L) Taub]seed cv.Pusa Navbahar. *Trend in Biosciences*, 10(31):6635-6640.
21. KumariPrity (2018). Pod damage modelling and forecasting in early maturing pigeonpea (*CajanusCajan*) for Central zone (CZ) of India. *The Bioscan*, Accepted (20th March, 2018).
22. KumariPrity, Mishra G. C. and Srivastava C. P. (2017). Forecasting for predicting pod damage of Pigeonpea in Varanasi region. *J. Agrometeorol.*, 19(3):265-269.
23. Prajapati H. N. and Patil, R. K. (2017). Evaluation of biocontrol agents against *Colletotrichumdematium* inciting fruit rot of papaya. *Plant Disease Research*, 32 (1):65-67.
24. Ravani A., Prasad R.V., Gajera R.R. and Joshi D. C. (2017). Potentiality of *Moringaoleifera* for food and nutritional security – A review. *Agricultural Reviews*, 38(3): 228-232.
25. Sandhu Vinny, Kaur A. and Bhise Suresh (2017). Effect of ungerminated and germinated flaxseed addition on the rheological properties of whole wheatmeal and wheat flour. *Carpathian J Food Sci Technol.*, 9(3): 83-94.
26. Vyas D. K., Kapdi S. S., Dudhat B. L. and Akbari S. H. (2017). Economic feasibility of updraft gasifier based combustor for hot air generation. *Trends in Biosciences*, 10(5): 1253-1256.

Books / Book chapters published:**Book:**

1. H. C. Patel (2017). Book on PhulPako, Anand Agricultural University, Anand PP: 1-184

Book chapter:

2. Poonam Aggarwal, Amarjeet Kaur and Suresh Bhise (2017). A Book chapter on Value-added processing and utilization of mango by-products. Handbook of Mango Fruit: Production, Postharvest Science, Processing Technology and Nutrition. John Wiley & Sons Ltd. Pp 279-293, (ISBN: 9781119014355) DOI: 10.1002/9781119014362.

Popular Articles:

1. H. N. Prajapati, A. H. Barad and H. C. Patel (2017) FulpakonaRogoanetenuniyantran, *Phulpako*. Pp: 37-40.
2. A. H. Barad, H. N. Prajapati, and N. A. Bhatt (2017) Fulpakonijivatoanetenuniyantran: *Phulpako*. Pp: 31-36.
3. N. V. Soni, H. C. Patel and AmitaParmar (2017). Floriculture Udhyog. *PhulPako (Visheshank)*. Pp 15-17.
4. H. N. Prajapati, A. H. Barad and H. C. Patel (2017). Phulpakonarogoanetenuniyantran. *PhulPako (Visheshank)*. PP 37-40.
5. B. H. Panchal and H.C. Patel (2017). Phulpako ma vrudhiniyantrako nu mahatvaaneupyogita. *PhulPako (Visheshank)*. PP 41-44.
6. H.C. Patel, RiddhiVasara, M. J. Patel and Rajni M. Thakkar (2017). Phulo nu ayushyalambavavanichavio. *PhulPako (Visheshank)*. PP 45-46.
7. N. S. Parekh and H.C. Patel (2017). DeshiGulab.*PhulPako (Visheshank)*. PP 50-53.
8. AmitaParmar, H. C. Patel, Janak R. Parmar and P. A. Maheriya (2017). Mosambiphulchod.*PhulPako (Visheshank)*. PP 91-92.
9. B. N. Satodiya, H. C. Patel and V. K. Patel (2017). High tech nursery project.*PhulPako (Visheshank)*. PP 101-103.
10. Amita B. Parmar, H. C. Patel, Janak R. Parmar and P. A. Maheriya (2017). Gulabnaphuloninikash.*PhulPako (Visheshank)*. PP 111-115.
11. N. V. Soni, H. C. Patel and N. I. Shah (2017). Karnesananinikash.*PhulPako (Visheshank)*. PP 125-127.

12. N. V. Soni, H. C. Patel and P. A. Bhatt (2017). Orkidsninikash.*PhulPako (Visheshank)*. PP 131-138.
13. N. V. Soni, H. C. Patel and N. I. Shah (2017). Phadudhyogo mate koldchainanijaruriyat.*PhulPako (Visheshank)*. PP 158-160.
14. H. C. Patel, RiddhiVasara, M. J. Patel and Rajni M. Thakkar (2017). Vividhaphulonaaushadiyaupyoga.*PhulPako (Visheshank)*. PP 173-175.
15. H. C. Patel, H. P. Kacha and Dharmishta D. Patel (2017). Mosambinikhetipadhati.*Krushigovidhya*, Nov.17. PP 14-15.
16. R. G. Jadav, K. P. Kikani, J. S. Patel and H. C. Patel (2017). Amala. *Aaushadhiya and sugandhitpakonivgiyanikkheti*. PP 89-92.
17. H. C. Patel, H. P. Kacha and Dharmista D. Patel (2017). *AaushadhiyaphalpakbijorunikhetipadhdhtiAaushadhiya and sugandhitpakonivgiyanikkheti*. PP 93-94.
18. H. C. Patel, Dharmista D. Patel and J. S. Patel (2017). *Aaushadhiyaphalpakjambunivgiyanikkhetipadhdhti. Aaushadhiya and sugandhitpakonivgiyanikkheti*. PP 95-97.
19. H. C. Patel, D. D. Parekha and Amita B. Parmar (2017). Safedchandan (sukhad) nikhetipadhdhti.*Aaushadhiya and sugandhitpakonivgiyanikkheti*. PP 98-100.
20. H. C. Patel and Dharmishtha Patel (2017). Soyeniar of State Workshop on propagation of Horti. Crops & Nursery management. “*Bagayati Pako ma Bij Savardhan*”. PP 18-20.
21. D.R.Paradvaand D.D.Parekh (2017). Galgotanikhethi, *PhulPako (Visheshank)*. PP 54-57.
22. D.R.Paradvaand D.D.Parekh (2017). Spiderlilynikhethi,*PhulPako (Visheshank)*. PP 54-57.
23. Hitiksha K. Parmar, D. A. Patel, Azadchandra S Damor (2018). Kiwi Farming and its health benefits, *Readers self*, 14(4): 63-65.
24. R.R.Gajera (2017). Food colourno processing productmaupyog. *KrishiGovidya*, 70(7):47-48.
25. R.R.Gajera (2017). English shakbhajimamulyavardhan. *KrishiJivan*, 50(1):104-06
26. R.R.Gajera (2017). FalaneShakbhaji ma Processing aneMulyavardhan. *KrishiGovidya*, 70(1):37-39.

27. R.R.Gajera (2017). English shakbhajimavyaparikdhoranemulyavardhan, *Gujarat BagayatVikas* (68): 60-64.
28. R.R.Gajera (2017). Food Processing ma Preservative no Upayog. *KrishiGovidya*, 69(11):38-39.
29. R.R.Gajera (2017) Fuladharit processing udyoganemulyavardhan. *KrishiJivan*, 49(8):33-34.
30. Suresh Bhise and Amarjeet Kaur (2018) B-Glucan sources, structures and its nutritional aspects. *Bev Food World* 45(01): 39, 40, 42
31. Suresh Bhise and Amarjeet Kaur (2017) Supercritical fluid extraction technology and applications. *Bev Food World* 44(08): 38-42
32. Suresh Bhise and Amarjeet Kaur (2017) Curdlan sources, structures and its nutritional aspects. *Bev Food World* 44(08): 24,28.

APPENDIX-6

List of Seminar, Symposia, Conferences and Workshop organized: NIL

APPENDIX-7

List of University teachers who participated in Seminars, Symposia, Conference and training programmes organized by the other Institutions.

Sr. No.	Name of Teacher/ Scientist	Participated	Duration	
			From	To
1.	Dr. R. R.Gajera	National Seminar on ‘Sustainable Food Value Chain in the Arena of Climate Change’ held at NAU, Navsari	02.06.2017	02.06 2017
2.	Dr. A. H. Barad	State level seminar on Adhunikketimapakshashan: samasyaanesamadhan, PPAG and JAU, Junagadh	19.08.2017	19.08.2017
3.	Dr. H. N. Prajapati	“KrushiShabdavali English-Hindi-Gujarati- AbhyasevamNirman” at S. P. University, V. V. Nagar	19.08.2017	20.08.2017
4.	Dr. A. H. Barad	Orientation programme at UGC_HRD.S.P.UniversityVallabhvi dhyanagar	21.08.2017	17.09.2017
5.	Dr. C. H. Rawal	28 days Orientation Programme at UGC-HRDC, V.V.Nagar, Anand	21.08.2017	17.09.2017
6.	Dr. H. N. Prajapati	Special Symposium on “Microbial antagonist and their role in biological control of plant diseases” at AAU, Anand	05.10.2017	07.10.2017

7.	Dr S. R. Bhise	21 Days winter school training programme on “Advances in food processing and nutritional linkages for entrepreneurship development” at Punjab Agricultural University, Ludhiana	25.10.2017	14.11.2017
8.	Dr. H. N. Prajapati	International Conference on “Plant Health for Human Welfare” at University of Rajasthan, Jaipur.	01.11.2017	04.11.2017
9.	Dr. H. N. Prajapati	Participated in 21 days CAFT training Programme on Use of Biotechnological and Conventional tools in understanding Virus-Host Interaction	07.11.2017	27.11.2017
10.	Dr. R. R. Gajera	National Symposium on ‘Doubling farmer’s income through technological interventions” held at AAU, Anand	08.01.2018	10.01.2018
11.	Dr. B. N. Satodiya	Refresher course on “Protected cultivation with special Reference to soilless Cultivation, Hydroponics and Aeroponics.” At Seed Unit, University of Agricultural Sciences, Dharwad	09.01.2018	29.01.2018
12.	Dr. H. C. Patel, Dr. D. D. Nayee, Dr. A. H. Barad, Prof. D. R. Paradva, Dr. H. N. Prajapati & Dr. C. H. Rawal	State level seminar on Bagayatipakomasavrdhanane nursery vyasthapan, AAU, Ananad	05.02.2018	06.02.2018
13.	Dr. PrityKumari	Participated in 21 days training Programme on “Statistical Advances for Agricultural Data Analysis” under the aegis of Centre of Advanced Faculty Training (CAFT) at IASRI, Library Avenue, Pusa, New Delhi	03.03.2018	23.03.2018