

Department of Floriculture and Landscape Architecture

ASPEE College of Horticulture Navsari Agricultural University, Navsari – 396 450



Activities and Achievements

ACADEMIC ACTIVITIES:

List of Courses offered by the Department for Under Graduate Programme (As per 5th Dean's Committee)

	B. Sc. (Hons.) Horticulture				
SN	Sem.	Course No.	Title of Course	Credit hrs	
1	II	*FLA 2.1	Ornamental Horticulture	2 (1+1)	
2	III	*FLA 3.2	Commercial Floriculture	3 (2+1)	
3	IV	*FLA 4.3	Principles of Landscape Architecture	2 (1+1)	
4	VI	FLA 6.4	Breeding and Seed Production of Flower and Ornamental Crops	3 (2+1)	
5	VI	FLA 6.5	Medicinal and Aromatic Crops	3 (2+1)	
			Sub Total (A)	13 (8+5)	
	STUDENT READY-I: Experiential Learning Programme				
1	VII	HWE 7.1	Protected Cultivation of High Valued	10 (0+10)	
			Horticultural Crops		
2	VII	HWE 7.1.1	Production of High Valued Crops	6 (0+6)	
3	VII	HWE 7.1.2	Packaging and Marketing of High Valued 4 (0+4		
			Horticultural Crops		
4	VII	HWE 7.4	Floriculture and Landscape Architecture	10 (0+10)	
5	VII	HWE 7.4.1	Planning, Layout and Design of Landscape	6 (0+6)	
6	VII	HWE 7.4.2	Consultancy and Maintenance of Garden	4 (0+4)	
Sub Total (B)					
		STUDENT	READY-II: Rural Horticultural Work Experience		
Sub Total (C)			0 (0+0)		
			Total (A+B+C)	33 (8+25)	

^{*}Courses not offered due to application of 6th Dean's Committee in 1st and 2nd year

List of Courses offered by the Department for Under Graduate Programme (As per 6th Dean's Committee)

B. Sc. (Hons.) Horticulture						
SN	Sem.	Course No.	Title of Course	Credit hrs		
1	I	FLS 1.1	Commercial Production of Flower crops	3 (1+2)		
2	II	FLS 2.2	Plant Propagation and Nursery Management in	3 (1+2)		

			Vegetables, Flowers and Medicinal crops	
3	IV	FLS 4.3	Urban and Peri-urban Horticulture	2 (1+1)
		SEC	Skill Enhancement Courses	
1	II	SEC-4	Landscape Gardening (6 th Dean's Committee)	2 (0+2)
2		SEC 10	Turf and Turf Management	2 (0+2)
		EC	Elective Courses	
1	VII	EC-15	Turf Management	2 (1+1)
2	VII	EC-16	Protected Cultivation of Flower crops	3 (2+1)
3	VII	EC-17	Value Addition in Floriculture	3 (2+1)
4	VII	EC-18	Breeding of Ornamental crops	3 (2+1)
5	VII	EC-19	Principles of Landscape Architecture	3 (1+2)
6	VII	EC-20	Commercial Floriculture and Landscaping	3 (2+1)
7	VII	EC-21	Post-harvest handling of Floriculture crops	3 (2+1)
			Sub Total	32
				(15+17)

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

	M. Sc. Horticulture				
SN	Sem.	Course No.	Title of Course	Credit hrs	
1	Odd	FLS – 501*	Systematic of Ornamental Plants	2 (1+1)	
2	Even	FLS – 502*	Breeding of Ornamental Plants	3 (2+1)	
3	Odd	FLS – 503*	Commercial Production of Cut Flowers	3 (2+1)	
4	Even	FLS – 504*	Commercial Production of Loose Flowers	3 (2+1)	
5	Odd	FLS – 505*	Ornamental gardening and Landscaping	3 (2+1)	
6	Even	FLS- 506	Indoor Plants and Interiorscaping	2 (1+1)	
7	Odd	FLS - 507	Nursery Management in Ornamental Plants	3 (2+1)	
8	Even	FLS - 508	Turf Grass Management	3 (2+1)	
9	Odd	FLS- 509	Value Addition in Floriculture	3 (2+1)	
10	Even	FLS - 510	Protected Cultivation of Flower Crops	3 (2+1)	
11	Odd	FLS- 511	CAD for Landscaping	3 (1+2)	
12	Even	FLS- 512	Seed Production in Flower Crops	2 (1+1)	
Sub Total (A)				33	
				(20+13)	
			OMPULSORY NON-CREDIT COURSES		
1	Odd	PGS 501	Libraryand InformationServices	1 (0+1)	
2	Even	PGS 502	Technical Writingand Communication Skills	1 (0+1)	
3	Odd	PGS 503	Intellectual Propertyandits	1 (1+0)	
			ManagementinAgriculture(e-Course)	` ′	
4	Even	PGS 504	BasicConceptsinLaboratoryTechniques	1 (0+1)	
5	Odd	PGS 505	AgriculturalResearch,ResearchEthicsandRural	1 (1+0)	
	Odd		Development Programmes (e-Course)	1 (1+0)	
6	Odd	PGS 506	Disaster management	1 (1+0) 6 (3+3)	
	Sub Total (B)				
Total (A + B)					
**0		<u> </u>		(23+16)	

^{**}Compulsory Courses

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

Ph.D. Horticulture				
SN	Sem.	Course No.	Title of Course	Credit hrs
1	Odd	FLS- 601**	Crop Regulation in Ornamental Crops	3 (2+1)
2	Even	FLS- 602**	Postharvest Biology of Floricultural Crops	3 (2+1)
3	Odd	FLS- 603	Specialty Flowers, Fillers and Cut Greens	2 (1+1)
4	Even	FLS- 604	Biotechnological Approaches in Floricultural Crops	3 (2+1)
5	Odd	FLS- 605**	Vertical Gardening	3 (1+2)
6	Even	FLS- 606	Advances in Breeding of Flower Crops	3 (2+1)
7	Odd	FLS- 607	Advances in Production Technology of Flower Crops	3 (2+1)
8	Even	FLS- 608	Advances in Protected Cultivation of Flower Crops	3 (2+1)
9	Odd	FLS- 609	Advances in Landscape Gardening	3 (1+2)
			Sub Total (A)	26
				(15+11)
		C	OMPULSORY NON-CREDIT COURSES	
			Sub Total (B)	0 (0+0)
			Total (A + B)	26
				(15+11)

^{**}Compulsory Courses

Activitiesunder ELP

Protected Cultivation of Hi-Value Horticultural Crops					
Year	Students	Revenue Generated (Rs.)			
2011-12	13	96974			
2012-13	12	92745			
2013-14	11	59126			
2014-15	21	99891			
2015-16	24	61005			
2016-17	25	104905			
2017-18	06	107427			
2018-19	19	172180			
2019-20	20	179805			
2020-21	27	52070			
2021-22	46	197079			
2022-23	45	232900			
2023-24	43	397075			
2024-25	50	237212			







Planting of Chrysanthemum by ELP students





Preparation of planting material by ELP students





Exhibition of prepared plants by ELP students









Production of Tomato







Production of exotic vegetable crops

Number of students awarded degree since commencement of PG programme in the Department

M.Sc. Horticulture	Ph. D. Horticulture
139	36

Number of students enrolled in PG Programme (2024-25)

M.Sc. Horticulture	Ph. D. Horticulture	
28	12	

Medalist Students of the Department

SN	Name of Student	Name of Medal	Year
1	Meghalakshmi Guddad	Chancellor's Gold Medal	2019-20
1	Ugale Hemant		2011-12
2	Radhika Jadeja		2012-13
3	Roshni Agnihotri		2015-16
4	Parvathi Bennurmath	ASPEE Foundation Gold Plated	2018-19
5	Sangeetha Priya S.	Silver Medal M.Sc. Horticulture	2020-21
6	Vidyashree S.		2021-22
7	Gangani Navneet Ranjitbhai		2023-24
8	Sushmita Halagali		2024-25
1	PriyankaPrajapati	ASPEE Foundation Gold Plated	2012-13
2	Mamilla Sindhuja	Silver Medal for Ph.D.Horticulture	2021-22
1	Roshni Agnihotri		2015
2	MaguluriSree Devi		2016
3	Parvathi Bennurmath	SRF	2017
4	Erathi Sathyanarayan	SKF	2017
5	Sangeetha Priya S.		2019
6	Alka		2020

7	Vidyashree S.		2020
8	Zala Kuvarsinh Ravisinh		2020
9	Chandana Shivaswamy		2021
10	Sindha Mallikaben Ravjibhai		2021
11	Mangroliya Ronak		2021
	Mukeshbhai		
1	Neelima Palagani	Best Thesis awardee at National	2018-2019
		level	
1	Dr. Saryu J. Trivedi	Best Ph. D. Thesis award	2024
1	Baraiya Ajay Himmatbhai	Best M.Sc. Thesis Award	2023
1	Dr. SumathiTatte	ISHRD Budding Scientist Award	2019-20
1	Sangeetha Priya S.	Dr. NC Gautam Best M.Sc.	2019-20
2	Ranjita Kulkarni	Thesis Award in Horticulture	2019-20



Parvathi Benurmath receiving ASPEE Foundation Gold plated silver medal



Meghalakshmi Guddad received Gold Medal M. Sc. (Hort.) Floriculture and Landscape Architecture



Sangeetha Priya S. conferred ASPEE Foundation Gold Plated Silver Medal M. Sc. (Hort.) Floriculture & Landscape Architecture 2020-21



Vidyasree S. conferred ASPEE Foundation Gold Plated Silver Medal M. Sc. (Hort.) Floriculture & Landscape Architecture 2021-22



Dr. Sumathi Thatte receiving ISHRD budding scientist award during Progressive Horticulture Conclave-2019at Lucknow



Sangeetha Priya receiving Dr. N C Gautam Best M.Sc. Thesis Award



Dr. N C Gautam Best M.Sc. Thesis award

RESEARCH ACTIVITIES

Research Schemes in Operation

SN	Title of Research Project	Year of	PI &	Funding
		Commencement& Budget Head	Co-PI	Agency
1	Establishment of Research	Year:1998-99	PI : Dr. S. L.	State Govt.
	Project on Floriculture	B.H. :329/12046-01	Chawla	
			Co-PI: Dr.	
			M. A. Patel	
			Dr. Sudha	
			Patil	
2	Landscaping at University	Year: 1998-99	PI :Dr. M A.	State Govt.
	Campus	B.H. :12712/02	Patel	
3	Landscaping and Gardening	Year: 1998-99	PI: Dr. H. P.	State Govt.
	Training Programme	B.H.: 329/12508	Shah	
	(Mali Talim)			
4	Establishment of Practical	Year:2004-05	PI : Dr.	State Govt.
	Training Centre of Horticulture	Cont.	Alka Singh	
	Students for the Hi-tech	B.H. :329/12970	Co-PI : Dr.	
	Horticulture		H. P. Shah	
5	Model Nursery for Ornamental	Year: 2007-08(One	Dr. M. A.	NHM
	plants	time grant)	Patel	
		B.H.: 9510		
		N - 50 : (RF)	DI D	ICAR
6	ELP on Hi- Tech Protected	Year: 2008-09	PI : Dr.	ICAR
	Cultivation of Horticultural	(One time grant)	Alka Singh	
	Crops	B.H.: 9510-N-60		
7	Advanced Technology Contro	(RF)	PI : Dr.	State Govt.
/	Advanced Technology Centre	Year:2014-2015 B.H. :329/12041		State Govt.
	for Soilless System for Production of Various Crops	D.П. :329/12041	Alka Singh Co-PI : Dr.	
	Production of Various Crops		G. D. Patel	
			G. D. Patel	

8	AICRP on Floriculture	Year:2015 B.H. :329/2100/00	PI: Dr. S. L. Chawla Co-PI: Dr. Dipal Bhatt	ICAR
9	Certificate Course in Turfgrass Management	Year: 2015-16 B.H.: 9510- N – 83	PI: Dr. S. L. Chawla Co-PI: Dr. M. A. Patel Dr. H. P. Shah	Self-financed
10	Floriculture Mission for south Gujarat	Year: 2023-24 329/12086	PI: Dr. S. L. Chawla Co-PI: Dr. M. A. Patel, Dr. R. A. Gurjar	State Govt.
11	Development of DUS guideline for Adenium	Year: 2024 B.H.: 329/18271	PI: Dr. Alka Singh Co-PI: Dr. G. D. Patel, Dr. A. K. Pandey, Dr. V. B. Patel	PPV & FRA, GoI, New Delhi

: ResearchRecommendations:

Year: 2023

S.N.	Title of Ex	periment and Reco	mmendation	Name of PI / Co-PI/ Associate
1	Effect of different bi of <i>Dendrobium</i> orch	9	wth, quality and yield	
	ventilated polyhouse 2% (20 ml in 1 L v	growing <i>dendrobium</i> are recommended to water) at every 15 o	orchid under naturally spray Novel Prime @ days interval to obtain)
2	Studies on phenophase based nutrient scheduling on flower yield and quality in China aster Recommendation for farmers Farmers of South Gujarat agro climatic zone growing China aster are recommended to apply 180:120:60 kg NPK/ha.Wherein, 25% should be applied as basal dose and remaining 75 % through drip system in three splits in the following manner for higher yield as well as net realization.		Co-PI: Dr. Sudha Patil, Dr. Dipal S. Bhatt Dr. M.A. Patel Associate:Dr.P.K.Dube	
	Splits of NPK Pheno	75% RDF through fertigation (kg/ha)	Remarks	

		phase	Ure a	12:6 1:00	00:0 0:50		
				(MA P)	(K ₂ S O ₄)		
	First (40:20: 20 %)	Vegeta tive phase	109. 49	29.5 2	18.0 0	Three equal splits of fertilizers at weekly interval	
	Second (30:40: 40 %)	Bud phase	72.5 1	59.0 4	36.0 0	Two equal splits of fertilizers at weekly interval	
	Third (30:40: 40 %)	Flower ing phase	72.5 1	59.0 4	36.0 0	Two equal splits of fertilizers at weekly interval	
	25 ➤ Pa	.05 kg/ha)	shoul	d be app	olied as	SP: 187.50kg and KCl: basal dose. n should be applied on	
3		endation for some	for far	mers Gujarat	agro o	aragus) climatic zone growing geri) as cut greens are	
	recommen	nded to gr	ow in	pot und	er 50 %	green shade net house nd net profit.	
4	dracaena()	endation for Sout Oracaena mended to	f or far h Gu fragi ogrow	mers jarat a rans 'N in pot	gro cl Massang under :	caena) imatic zone growing eana') as cut foliage 50 % green shade net ealization.	
5	Recomme Farmers (Nephrole	n and evaluation to south of south	luation for far Gujar ata) as	n of fille mers at agro cut foli	er (Fern climat age are		

	production and net realization.	
6	Effect of IBA and season on rooting of African marigold (Tagetes erecta L.) cv. Pusa Narangi Gainda cutting under poly tunnel Recommendation for farmers The farmers and nurserymen of the Gujarat growing marigold are advised that the lower portion of tip cuttings treated with IBA 1500 mg/L for 5 (five) seconds and insert in slanting position in sand under poly tunnel gave higher number of rooted cuttings, number of roots per rooted cutting and higher survival percentage of marigold in all the seasons.	PI: Dr. M.A. Patel Co-PI: Dr. Dipal S. Bhatt Prof. Parmeshvari K. Chaudhari
7	Integrated weed management in African marigold (Tagetes erecta L.) var. Pusa Narangi Gainda Recommendation for Scientist It is inform to scientific community that spray of early post emergence pendimethalin 30 % EC@ 0.75 kg a.i./ha (3.33 L/ha) within 24 hours of transplanting followed by mulching of paddy straw (5 cm thickness layer) and one hand weeding at 50 days after transplanting effectively controls weed and gives higher yield in African marigold var. Pusa Narangi Gainda during Kharif season.	PI: Prof. Parmeshvari K. Chaudhari Co-PI: Dr. M. A. Patel Dr. S. L.Chawla
8	Adenium variety Gujarat Adenium 5 (GAd-5: Shashank) Recommendation for farmers The nursery men dealing with ornamental plants, landscape designers and plant lovers are recommended to grow adenium variety GAd5 (Shashaank) under polyhouse for higher commercial value as well as in garden and house plant. Adenium variety GAd 5 is novel that it bears white coloured flowers having multipetalous flower form with dual whorls of petals (10) in each flower along with more flowers per cluster and flowering duration. It can be propagated by grafting on local pink root stock.	PI: Dr. Alka Singh Co-PI: Prof. A. J. Bhanderi Dr. H. P.Shah Dr. G.D. Patel
9	Turfgrass variety: Gujarat Turf Grass 1 (GTG 1: Arna) Recommendation for farmers The farmers, nurserymen and professional landscapers of the Gujarat state are advised to grow turf grass (Lawn) variety Gujarat Turf Grass 1 (GTG 1: Arna) with early establishment rate (minimum days taken for 90% coverage), high turfing ability, root depth and lower shoot- root ratio than the check Selection 1. The proposed variety having good aesthetic appearance, require less number of mowing and less incidence of pest and disease in proposed variety.	PI: Dr. M. A. Patel Co-PI: Dr. Bimal Desai Dr. S. L. Chawla Dr. H. P. Shah Dr. A. I. Patel

Year: 2024

S.N.	Title of Experiment and Recommendation	Name of PI /
		Co-PI/ Associate
1	Evaluation of Ferns in different growing media under	PI: Dr. H. P Shah
	benching system in Orchid (Dendrobium) NV polyhouse	Co-PI: Dr. Alka Singh
		Dr. G. D. Patel
	Recommendation for farmers	
	Farmers growing orchid in NV polyhouse are	
	recommended to grow Nephrolepis exaltata fern as a secondary	
	crop in cocopeat growing media under benching system for	
	obtaining better plant growth and yield as cut greens.	
	Note : Fertilizer application:	
	Urea- 50 mg/l of 100 ml/pot (Once a month in the first week)	
	19:19:19 NPK-50 mg/l of 100 ml/pot (Once a month in third	
	week)	
	Pot size: Height 19 cm, top diameter 19 cm, bottom diameter:15	
2	Effect of type and height of poststock for quafting in Maan	DI. Dr. Allro Cinch
<i>Z</i>	Effect of type and height of rootstock for grafting in Moon	PI: Dr. Alka Singh
	Cactus	Co-PI: Dr. G. D. Patel
	Recommendation for farmers	Prof. Ankit
	Nurserymen raising cactus under naturally ventilated	Bhandari
	polyhouse are recommended to graft Gymnocalycium	Dr. H. P. Shah
	mihanovichii (as Scion) cactus on 3 edged and 5 cm height of	
	Hylocereus monacanthus rootstock to develop moon cactus for	
	higher graft survival, more number of flowers and baby cactus.	
3	Evaluation of new crosses in Adenium for profuse flowering	PI: Dr. Alka Singh
	habit	Co-PI: Dr. H. P. Shah,
		Dr. G. D. Patel
	Recommendation for the scientists	Prof. Ankit
	The germplasm NASDUS2 profusely bears red coloured	Bhandari
	flowers having single whorl. It can be further utilised in breeding	Associate: Dr. A. I.
	program.	Patel
	F8	Dr. Vipul Parekh
4	Effect of pinching and foliar application of nutrients on	PI: Dr. R. A. Gurjar
	growth, qualityand yield of African marigold (Tagetes erecta	Co- PI:Dr. S. L. Chawla
	L.)	Dr. M. A. Patel
	1	Associates: Dr.
		Narendra
	Farmers of South Gujarat, growing African marigold are	Singh
	recommended to pinch at 20 and 35 days after transplanting along	Singi
	with Novel Organic LiquidNutrients @ 1% (1liter/100/liter	
	water) spray during 6 th and 7 th week oftransplanting with the	
	recommended dose of fertilizer (150:100:100 kg NPK/ha)along	
	with 10 ton of well rotten Farm Yard Manure (FYM) per hectare	
	toachieve maximum production and profit.	

Year: 2025

		Co-PI/ Associate
1	Optimization of micronutrient doses for aster	PI: Dr. Sudha Patil
1	Optimization of inicionatifent doses for aster	Co-PI: Dr. S. L. Chawla
	Recommendation for farming community:	Dr. Dipal S.
	Farmers of Gujarat growing China aster are recommended to	Bhatt
	apply micronutrients viz ., Zn (2.5 kg/ha) + Mn (2.5 kg/ha) + B (1	Associates: Dr. Sonal
	kg/ha) + Fe (1.25 kg/ha) in soil at the time of planting along with	Tripathi
	FYM @ 20 t/ha + 180:120:60 kg NPK/ha as RDF and 200 kg of	Dr. Narendra
	neem cake enriched with 1 kg of Trichoderma harzianum to get	Singh
	higher yield and net realization. Moreover, full dose of P and K	
	should be applied as basal dose while N in three equal splits viz.,	
	first dose as basal, second dose at pinching and third dose at one	
	month after pinching.	
2	Standardization of planting time and geometry on growth and flowering of gaillardia (Gaillardia pulchella Foug.)	PI: Dr. Dipal S. Bhatt Co PI: Dr. S. L.
	and nowering of gamardia (Guitariaa patenetia Poug.)	ChawlaDr. Sudha Patil
	Recommendation for farming community:	
	Farmers of South Gujarat are recommended to plant gaillardia at	
	45 cm x 45 cm spacing in the 1 st week of January for getting	
	higher production of flowers as well net realization.	
3	Effect of plant growth retardants on growth and flowering in	PI: Dr. Shivam T. Bhatt
	pot Kalanchoe	CO-PI: Alka Singh and
		Dr. G D Patel
	Recommendation for farming community:	
	Nurserymen and garden amateur are recommended to apply	
	Cycocel at 750 ppm (750 mg/L) as foliar application on	
	kalanchoe at 30 and 45 days after pot planting for obtaining	
	compact plant growth, profuse flowers and better visual appearance.	
	Note:	
	Plastic pot size: 17 cm-top diameter, ht 13 cm	
	Potting media: Cocopeat: sand: vermicomopost (7:2:1 v/v)	
	Fertilizer application:	
	NPK 19:19:19 @50 mg/L of 100 ml/pot (once in 15 days)	
	NPK 13:0:45 @50 mg/L of 100 ml/pot (once in 15 days)	
4	Standardization of N and K doses under fertigation in rose	PI: Dr. H. P. Shah
	under NVPH	Co- PI:Dr. Alka Singh,
		Dr. G. D. Patel and
	Recommendation for farming community:	Prof. Parmeshvari
	Farmers of Gujarat growing cut rose under naturally ventilated	Chaudhari
	polyhouse are recommended to apply 300:100:100 mg/m²/week	
	NPK through fertigation to obtain higher yield and net return.	
5	Effect of different potting media on gerbera cultivation in NV	PI: Dr. H. P. Shah
	polyhouse	Co- PI: Dr. Alka Singh,
		Dr. G. D. Patel and
	Recommendation for farming community:	Prof. Parmeshvari
	Farmers of Gujarat growing gerbera under naturally ventilated	Chaudhari
	polyhouse are recommended to use local black soil + leaf mold +	
	rice husk + sand (2:2:1:1 v/v) as growing media for pot culture	
	to obtain higher yield and better quality.	

	Note: Drenching 19:19:19 NPK-50 mg/l of 100 ml/pot (Monday every week) Drenching 13:0:45 NPK-50mg/l of 100 ml/pot (Thursday every week) Size of Pot: Height – 13 cm, Diameter – 19 cm	
6	Recommendation for the farmers: Nurserymen of Gujarat and plant lovers are recommended to grow Gujarat Snake Plant 1 (Navsari Vasari) variety of snake plant for higher commercial value as well as for indoor pot plant. GSP1 (Navsari Vasari) is a phytoremedial medium stature snake plant variety having dark green broad and stout leaves with whitish greyish variegated margin, produces 16.46% and 26.03% more suckers than local checks (Tall Yellow and Dwarf) and is efficient in indoor air quality purification by faster removal of TVOCs and HCHO.	PI: Dr. Dr. Alka Singh Co- PI: H. P. Shah, Dr. G. D. Patel, Prof. Parmeshvari Chaudhari, Dr. Vipul Patel, Dr. A. I. Patel and Dr. Viral Prajapati

Our Products

S.N.	Planting material	Crop and Cultivar	Quantity			
B.H.: 12046-	B.H.: 12046-1 (Plan Project)					
1	Seeds/Bulbs/Corms	Tuberose bulbs, lily bulbs, gladiolus corms, Heliconia rhizomes, Ornamental ginger rhizomes (No.)	75203			
2	Nursery plants,	Rooted cuttings &seedlingsof different ornamental plants (No.)	6095			
3	Cut flowers	Gladiolus, rose, tuberose, goldenrod, orchid, heliconia ornamental ginger etc. (No.)	5541			
4	Loose flowers (kg)	Marigold, Chrysanthemum, Rose, gaillardia etc.	558 kg			
5	Flower decoration	Flower bouquets (small, medium& big), bowl and Channels (No.)	510			
B.H. 12970						
1	Cut flowers	Gerbera	-			
		Dendrobium Orchid (small)	-			
		Dendrobium Orchid (big)	-			
2	Flower bouquet	Small, medium, large, floral bowl etc.	71			
3	Plants	Small bags (7" -5")	46			
		Medium bags (10"-8")	11			
		Large bags (14"-12")	02			
		Euporthia	9			
		Hanging basket	14			
		Haworthia	22			

		Indoor plants	15
B.H. 12041		Grafted Adenium	100
1	Nursery plants	Haworthia (Small pot)	100 77
		Cactus	4
		Succulents	14
		Indoor Plant Pot	2
		Portulaca	23
		Palm	16
		Euphorbia	31
		Lettuce	120
		Coriander	260
		Ixora	4
		Hanging plant	4
		Small bags (7" -5")	410
		Medium bags (10"-8")	24
		Large bags (14"-12")	43
B.H.: 9510	N - 50 (Revolving Fund)		
1	Nursery plants	Ornamental plants	2427
		Medicinal plants	324
		Trees	65
		Palms	375
2	Rooted cuttings	Ornamental plants	340
3	Seedlings	Flower crops	4900
4	Seeds/bulbs/corms	Heliconia rhizomes, Ornamental	04
		ginger rhizomes (No.)	
5	Boarder plants	Ornamental plants	1120
	N - 60 (Revolving Fund)		
1	Cut flowers	Gerbera, orchid etc.	11
2	Flower bouquet	Small, medium, large, floral bowl etc.	270
3	Dish garden	Small (6"),	2
		Medium (8")	15
4	m ·	Large (10")	10
4	Terrarium	Large (10")	- 1.5
5	Housing books	Small (6"-8")	15
3	Hanging basket	Plastic Coco-coir	97 42
		Bamboo	10
6	Plants	Large bags (14"-12")	482
O	Fiants	Medium bags (10"-8")	333
		Small bags (7"-5")	484
		Plastic pots (10"-12")	7
		Ceramic pot (10")	8
		Pot plant on rent 12"	990
		Indoor plants	173
		Haworthia	10
		Succulents	10
7	Channel	Channel	29
,	Chamino	CHAINIO	

B.H.: 329/2100/00 (AICRP on Floriculture)				
1	Cut flowers	Tuberose, cut greens like dracaena, golden rod etc.	548	
2	Flower decoration	Flower bouquets (small & big) &bowl (No.)	178	

EXTENSION ACTIVITIES

- 1) **Dr. Alka Singh** delivered a lecture on "Scope & Importance of Garden Skill Development" in Ten days students' Training Programme on 'Gardening Skill" organized by ASPEE College of Horticulture, Navsari Agricultural University, Navsari and JNV, Tapi from 03-18 April, 2024 for the students of PM Shri School, Jawahar Navodaya Vidyalaya, Tapi (Std. 9th and 11th) on 3rdApril 2024 at ASPEE College of Horticulture, NAU, Navsari.
- 2) **Dr. Hardik P. Shah** delivered lecture on "Classification and Identification of plants" in Ten days students' Training Programme on 'Gardening Skill" organized by ASPEE College of Horticulture, Navsari Agricultural University, Navsari and JNV, Tapi from 03-18 April, 2024 for the students of PM Shri School, Jawahar NavodayaVidyalaya, Tapi (Std. 9th and 11th) on 3rd April 2024 at ASPEE College of Horticulture, NAU, Navsari.
- 3) **Dr. M. A. Patel** delivered lecture on "*Lawn –Land Preparation & planting*" in Ten days students' Training Programme on 'Gardening Skill" organized by ASPEE College of Horticulture, Navsari Agricultural University, Navsari and JNV, Tapi from 03-18 April, 2024 for the students of PM Shri School, Jawahar NavodayaVidyalaya, Tapi (Std. 9th and 11th) on 18thApril 2024 at ASPEE College of Horticulture, NAU, Navsari.
- 4) **Dr. Gaurang D. Patel** delivered lecture on "Garden Role of Trees & Environment" in Ten days students' Training Programme on 'Gardening Skill" organized by ASPEE College of Horticulture, Navsari Agricultural University, Navsari and JNV, Tapi from 03-18 April, 2024 for the students of PM Shri School, Jawahar NavodayaVidyalaya, Tapi (Std. 9th and 11th) on 3rd April 2024 at ASPEE College of Horticulture, NAU, Navsari.
- 5) Hands on Training have been given by **Dr. Gaurang D. Patel** on "Preparation of Soilless Media for Raising of Seedling" at GST, Kharel on 25th May, 2024.



Hands on training on Preparation of Soilless Media for Raising of Seedling given by Dr. G. D. Patel at GST, Kharel on 25th May, 2024

- 6) **Dr. Dipal S. Bhatt** delivered lecture on "*Garden components: Plant (Living) Components*" in Ten days students' Training Programme on 'Gardening Skill" organized by ASPEE College of Horticulture, Navsari Agricultural University, Navsari and JNV, Tapi from 03-18 April, 2024 for the students of PM Shri School, Jawahar Navodaya Vidyalaya, Tapi (Std. 9th and 11th) on 3rd April 2024 at ASPEE College of Horticulture, NAU, Navsari.
- 7) **Dr. Sudha Patil** delivered lecture on "*Pot Plant- care and maintenance*" in Ten days students' Training Programme on 'Gardening Skill" organized by ASPEE College of Horticulture, Navsari Agricultural University, Navsari and JNV, Tapi from 03-18 April, 2024 for the students of PM Shri School, Jawahar Navodaya Vidyalaya, Tapi (Std. 9th and 11th) on 18th April 2024 at ASPEE College of Horticulture, NAU, Navsari.
- 8) **Prof. Parmeshvari Chaudhari** delivered practical lecture on "*Use of Garden Flowers*" in Ten days students' Training Programme on 'Gardening Skill" organized by ASPEE College of Horticulture, Navsari Agricultural University, Navsari and JNV, Tapi from 03-18 April, 2024 for the students of PM Shri School, Jawahar Navodaya Vidyalaya, Tapi (Std. 9th and 11th) on 18th April 2024 at ASPEE College of Horticulture, NAU, Navsari.



Practical lecture given by Prof. Parmeshvari Chaudhari on Use of garden flowers on 18th
April, 2024 to students of JNV, Tapi (Std. 9th and 11th)

- 9) **Dr. Alka Singh** delivered a lecture on "*Greenhouse ma Gulabni kheti*" in Ten days farmers' Training Programme on 'Greenhouse/ net house (*Rakshit kheti*)" organized by Directorate of Extension Education, Navsari Agricultural University, Navsari from 18-27 September, 2024 on 19th September 2024 at ATIC, NAU, Navsari.
- 10) **Dr. S. L. Chawla** delivered a lecture on "Gerbera ane Gulab sivayana anya fulpakoni shakyata" in Ten days farmers' Training Programme on 'Greenhouse/ nethouse (Rakshit kheti)" organized by Directorate of Extension Education, Navsari Agricultural University, Navsari from 18-27 September, 2024 on 21th September 2024 at ATIC, NAU, Navsari.
- 11) **Dr. Hardik P. Shah** delivered a lecture on "*Greenhouse ma Gerberani kheti*" in Ten days farmers' Training Programme on 'Greenhouse/ nethouse (*Rakshit kheti*)" organized by Directorate of Extension Education, Navsari Agricultural University, Navsari from 18-27 September, 2024 on 19th September 2024 at ATIC, NAU, Navsari.
- 12) **Dr. Hardik P. Shah** delivered a lecture on "*Greenhouse ma Orchid ni kheti*" in Ten days farmers' Training Programme on 'Greenhouse/ nethouse (*Rakshit kheti*)" organized by Directorate of Extension Education, Navsari Agricultural University, Navsari from 18-27 September, 2024 on 19th September 2024 at ATIC, NAU, Navsari
- 13) **Dr. M. A. Patel** delivered a lecture on "Floriculture vibhagni mulakat" and "Prayogik—fulpako mate midiya taiyar karavu" in Ten days farmers' Training Programme on 'Greenhouse/ nethouse (Rakshit kheti)" organized by Directorate of Extension Education, Navsari Agricultural University, Navsari from 18-27 September, 2024 on 18th September 2024 at ATIC, NAU, Navsari.

- 14) **Dr. M. A. Patel** carried out a practical on "Fulpako mate midiya taiyar karavu" in Ten days farmers' Training Programme on 'Greenhouse/ nethouse (Rakshit kheti)" organized by Directorate of Extension Education, Navsari Agricultural University, Navsari from 18-27 September, 2024 on 20th September 2024 at ATIC, NAU, Navsari.
- 15) **Dr. Gaurang D. Patel** carried out a practical on "Greenhouse ma soilless kheti" and in Ten days farmers' Training Programme on 'Greenhouse/ nethouse (*Rakshit kheti*)" organized by Directorate of Extension Education, Navsari Agricultural University, Navsari from 18-27 September, 2024 on 21th September 2024 at ATIC, NAU, Navsari.
- 16) **Dr. Gaurang D. Patel** delivered a lecture on "*Hydroponiksh khetini shakyata ane samaj*" and in Ten days farmers' Training Programme on 'Greenhouse/ nethouse (*Rakshit kheti*)" organized by Directorate of Extension Education, Navsari Agricultural University, Navsari from 18-27 September, 2024 on 25th September 2024 at ATIC, NAU, Navsari.
- 17) **Dr. Dipal S. Bhatt** delivered a lecture on "*Fulpakoni nikasna dharadhoran*" and in Ten days farmers' Training Programme on 'Greenhouse/ nethouse (*Rakshit kheti*)" organized by Directorate of Extension Education, Navsari Agricultural University, Navsari from 18-27 September, 2024 on 23th September 2024 at ATIC, NAU, Navsari.
- 18) **Dr. Dipal S. Bhatt** carried out a practical on "Ful ane shakbhaji utaravani padhdhati ane utarya pachhini mavjat" and in Ten days farmers' Training Programme on 'Greenhouse/ nethouse (Rakshit kheti)" organized by Directorate of Extension Education, Navsari Agricultural University, Navsari from 18-27 September, 2024 on 27th September 2024 at ATIC, NAU, Navsari.
- 19) **Dr. Alka Singh** delivered a talk on "Urban Oasis: Maximizing Green Spaces in Minimal City Spots" in the training programme on "ECHO Urban Agriculture for Nutrition Security" through Online mode at MANAGE, Hyderabadon17th April 2025.
- 20) **Dr. Alka Singh** delivered a lecture on "*Greenhouse ma Gulabni kheti*" in Ten days farmers' Training Programme on 'Greenhouse/ nethouse (*Rakshit kheti*)" organized by Directorate of Extension Education, Navsari Agricultural University, Navsari from 5 14May, 2025 on 13thMay 2025 at ATIC, NAU, Navsari.
- 21) **Dr. Gaurang D. Patel** delivered a lecture on "*Hydroponiksh khetini shakyata ane samaj*" and in Ten days farmers' Training Programme on 'Greenhouse/ nethouse (*Rakshit kheti*)" organized by Directorate of Extension Education, Navsari Agricultural University, Navsari from 5 14 May, 2025 on 13th May 2025 at ATIC, NAU, Navsari.
- 22) **Dr. Gaurang D. Patel** carried out a practical on "Greenhouse ma soilless kheti" and in Ten days farmers' Training Programme on 'Greenhouse/ nethouse (*Rakshit kheti*)" organized

- by Directorate of Extension Education, Navsari Agricultural University, Navsari from 5 14May, 2025on 13thMay 2025 at ATIC, NAU, Navsari.
- 23) **Dr. Dipal S. Bhatt** carried out a practical on "Fulpakona grading, packing, mulyavardhan, vahanni pratyaksh Talim ane nikasna dharadhoran" in Ten days farmers' Training Programme on 'Greenhouse/ nethouse (Rakshit kheti)" organized by Directorate of Extension Education, Navsari Agricultural University, Navsari from 5 14 May, 2025 on 13th May 2025 at ATIC, NAU, Navsari.
- 24) **Ms. Parmeshvari Chaudhari** carried out a practical on "*Greenhouse ma Fuloni kheti*" in Ten days farmers' Training Programme on 'Greenhouse/ nethouse (*Rakshit kheti*)" organized by Directorate of Extension Education, Navsari Agricultural University, Navsari from 5 14 May, 2025 on 11 May 2025 at ATIC, NAU, Navsari.

TRANSFER OF TECHNOLOGY (ToT)







Interaction with farmers in *Rabi Krishi Mahotsava* -2024during 6-7 December, 2024 at Ta-Uchhal, Dist-Tapi







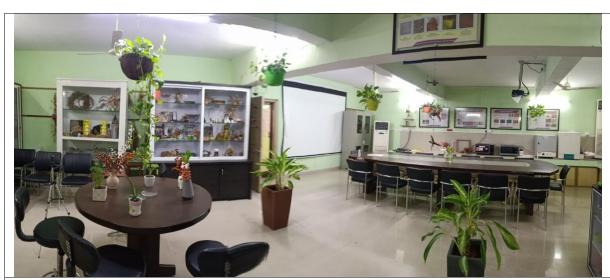
Interaction with farmers in *Rabi Krishi Mahotsava*-2024 during 6-7 December, 2024 at Ta-Chikhli, Dist-Navsari

Infrastructure Available

Infrastructure or Facilities available at Department of Floriculture & Landscape Architecture

Sr. No.	Infrastructure or Facilities available	Area/No.
1.	Laboratory-FLA 7	1

	(For Biochemical work)	
2.	Laboratory-FLA 6	1
	(For general Floriculture work)	
3.	Gardens	5
	(Rooftop garden, Zen garden, Sand garden, Strolling garden, Courtyard	
	garden)	
4.	Laboratory-FLA 5(For Value Addition in Flowers)	1



Laboratory - FLA 5 (For Value Addition in Flowers)





Laboratory-FLA7 (For Biochemical work)







College garden





Roof Top garden





Bio wall



Miniature Garden



Sand Garden

Zen Garden









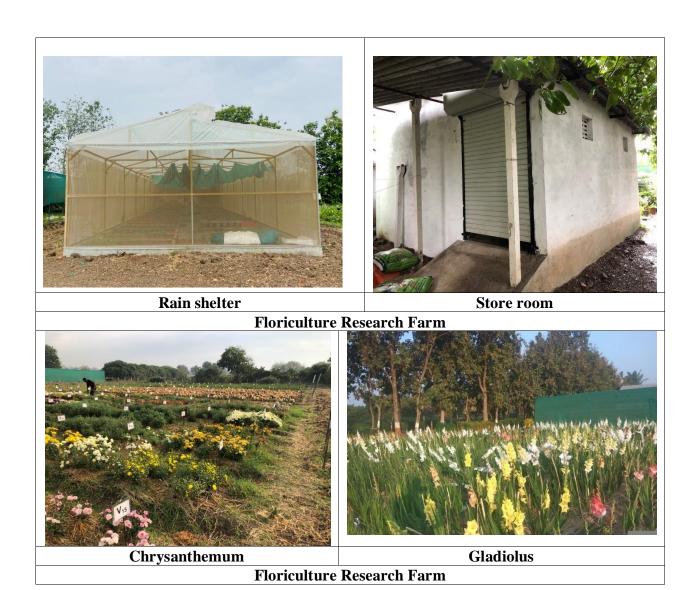


Strolling Garden

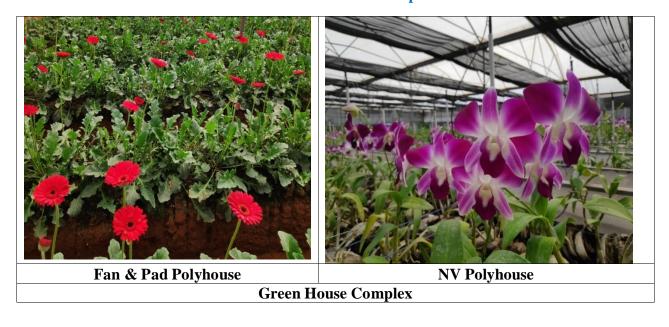


Infrastructure or Facilities created at Research Farm in Floriculture department

Sr. No.	Infrastructure or Facilities available	Area/No.
1.	Floriculture Research farm	
	Total area	4 ha
	Naturally Ventilated Polyhouse for orchid	500 m ²
	Net house for Heliconias	1500 m ²
	Net house for Bird of Paradise	500 m ²
	Selling unit net house	750 m ²
	Net house for cut greens, foliage plants etc.	175 m ²
	Rain shelter for chrysanthemum, gypsophila etc.	200 m ²
	Propagation unit	550 m ²
	Net house for orchids and anthurium	150 m ²
	Godown cum store	22 m ²
	Propagation unit with rain shelter	175 m^2
	Poly tunnel (covered with UV stabilized plastic sheet)	54.0 sq. m
2.	Green House Complex	
	Naturally Ventilated Polyhouse	2 nos.
	Fan and Pad type Polyhouse	2 nos.
	Net house	2
3.	Advanced Training Centre on Soilless Growing system for various cr	ops
	Total area	2 acres
	Naturally Ventilated Polyhouse	1
	Polyhouse with Fan and Pad system	1
	Ornamental Plant Nursery	1



Infrastructure or Facilities created at Green House Complex



Infrastructure or Facilities created at ATC Soilless System for various crops



Dignitaries Visit: Glimpses



Dr. Sudhakar Pandey, ADG (Horticulture), ICAR, New Delhi visited Advance Training Centre of Soilless growing system, ACH, NAU, Navsari on 27/06/2024

Dr. Sudhakar Pandey, ADG (Horticulture), ICAR, New Delhi visited Advance Training Centre of Soilless growing system, ACH, NAU, Navsari on 27/06/2024



Dr. Rajiv Kumar, Principal Scientist, ICAR-IIHR, Bengaluru visited Floriculture Research Farm, ACH, NAU, Navsari on 09/09/2024





Dr. Alka Singh (Project Incharge) presented progress report on "Development of DUS testing Guidelines for Adenium" in front of Task Force Committee headed by Dr. Ramesh Kumar (Former Director ICAR-DFR), Pune duringApril 11-12, 2025

Visit of PPVFRA, New Delhi sponsored project "Development of DUS testing Guidelines for Adenium" by Dr. Ramesh Kumar, Dr. S.S. Sindhu, Dr. Naveen Kumar, Dr. D. S. Pilania, Dr. Dilip Patel escorted by Dr. Alka Singh (Project Incharge) and Co-PI on 11th April, 2025