MAJOR ACTIVITIES

- Teaching: UG and PG level
- Research: Different aspects of Silviculture (Nursery, Plantation) and Agroforestry
- Extension activities: Krishi Mahotsava, Vanamahotsava, and interaction with farmers and imparting training on different aspects of forestry as well as agroforestry

FACILITIES:

1. Arboretum, Biodiversity Park, Instructional and Research Farm: An Arboretum of around 150 species from South Gujarat is established and the trees are around 20 years of age. Biodiversity park comprised of 170 species of plants. For day to day teaching of forestry it is very useful. An evaluation trial of 16 species from South Gujarat is also undertaken on the Instructional farm.
2. Laboratory & Instrumentation Centre: Different instruments like Microscope, Tree Calliper, Digital calliper, Ravi Altimeter & Multimeter, Relaskop, GRS densitometer, Electronic clinometers, TruPulse range finder, Bark gauge, Increment borer, Seed germinator, Silva clinometers, Penta-prism, Muffle furnace, Quartz distillation unit, Kjedal distillation unit, Electric balance, Hot air oven, Infra Red moisture meter, Digital moisture meter, Spectrophotometer, Chlorophyll content meter, Tree canopy analyzer, Leaf area meter, Dendrometer, Vertex Laser Hypsometer, Digitech Professional Calliper and with green gater eyes, Tree Canopy Analyser and other instruments are available.

EDUCATION

COURSES OFFERED AT UG LEVEL (6th Dean Committee)

Course Code	Course Title	Credits
SAF 1.1	Silviculture – Principles and Practices	3 (2+1)
SAF 3.1	Silviculture of Trees	2 (2+0)
SAF 5.1	Plantation Forestry	3 (2+1)
SAF 1.2	Agroforestry Systems and Management	3 (2+1)
SAF 5.2	Industrial Agroforestry	2 (1+1)
SAF 3.2	Arboriculture	2 (1+1)
SAF 6.1	Trees Outside Forests	2 (2+0)

EDUCATION

COURSES OFFERED AT UG LEVEL (5th Dean Committee)

Course Code	Course Title	Credits
SAF 3.4	Principles of Agroforestry	3(2+1)
SAF 3.5	Forest Mensuration	3(2+1)
SAF 3.6	Rangeland and livestock management	2(1+1)
SAF 4.7	Forest Inventory and Yield Prediction	2(1+1)
SAF 4.8	Silviculture of Indian Trees	3(2+1)
SAF 5.9	Practices of Silviculture	3(2+1)
SAF 6.10	Forest Extension & Community Forestry	3(2+1)
SAF 6.11	Recreation & Urban Forestry	2(1+1)
SAF 6.12	Plantation Forestry	3(2+1)
SAF 8.13	Agroforestry Systems and Management	2(1+1)

COURSES OFFERED AT PG LEVEL

COURSE NUMBER	TITLE OF THE COURSE	CREDITS
M. Sc. FORESTRY (SILVICULTURE & AGROFORESTRY)		
MAJOR COURSES		
SAF 501*	Silviculture	2 + 1
SAF 502*	Forest Biometry	1 + 1
SAF 503*	Silvicultural Practices	1 + 1
SAF 504*	Agroforestry Systems	2 + 1
SAF 505*	Interactions in Agroforestry Systems	1 + 1
SAF 506	Modern Nursery Technologies	1 + 1
SAF 507	Plantation Forestry	2 + 1
SAF 508	Industrial Agroforestry	1 + 1
SAF 509	Climate Change and Conservation Silviculture	2 + 0
SAF 510	Trees and Shrubs for Agroforestry	1 + 1
SAF 511	Economics of Agroforestry Systems	2 + 1
SAF 512	Tree Seed Technology	2 + 1
SAF 513	Nutrient and Weed Management in Production Forestry	1 + 1
SAF 514	Crops and Live Stock Management in Agroforestry	2 + 0

*Compulsory Core Courses

COURSES OFFERED AT PG LEVEL

COURSE NUMBER	TITLE OF THE COURSE	CREDITS
Ph.D. FORESTRY (SILVICULTURE & AGROFORESTRY)		
MAJOR COURSES		
SAF 601*	Quantitative Silviculture	2 + 1
SAF 602*	Agroforestry Research and Management	2 + 1
SAF 603	Forest Stand Dynamics	1 + 0
SAF 604	Productivity and Evaluation of Agroforestry Systems	2 + 1
SAF 605	Forest Stand Management Techniques	1 + 1
SAF 606	Agroforestry for Ecosystem Services and Environmental Benefits	2 + 0
SAF 607	Plantation Forest Productivity	1 + 1
SAF 608	Restoration Forestry	1 + 0
SAF 609	Regeneration Silviculture	2 + 1
SAF 610	Forest Soil Management	1 + 1
SAF 611	Agroforestry for Sustainable Agriculture	1 + 0

*Compulsory Core Courses

RESEARCH

A. RECOMMENDATIONS

1. Evaluation of different forest species: Jadeja, D. B.; Patel, N. B; Kukadia, M. U.; Vashi, B. G.; Patil, N. S.; Patel, D. P; Parmar M. R and Prajapati, V. M.

   Recommendation: The tree growers and farmers of South Gujarat heavy rainfall zone-I, Southern moist mixed deciduous forest-3B/C2 and agricultural situation-III are advised to grow block plantations of *Albizzia procera* (Kilai, White Siris) or *Terminalia arjuna* (Arjun Sadad) at 4 m x 4 m spacing and long rotation (20 years) for better volume, improvement of soil pH, EC, Organic carbon, N, P, K and higher economic return (BCR after 20 years = 44.93 and 36.45 respectively). [Agresco-2011].

2. To study the growth and yield of *Acacia mangium* in South Gujarat: Jadeja, D. B.; Patel, N. B; Kukadia, M. U.; Vashi, B. G.; Patel, M. M..; Patel, D. P; Parmar M. R and Prajapati, V. M.
   Recommendation: The tree growers and farmers of South Gujarat heavy rainfall zone-1, Southern moist mixed deciduous forest-3B/C2 and agricultural situation-III are advised to grow *Acacia mangium* (Mangium) in block plantation at the spacing of 2.5 m x 2.5 m for higher girth, crown diameter, number of branches and economic return (BCR after 5 year 13.99). [Agresco-2011].

3. Growth and yield of Tannia (Xanthosoma sagittifolium L. Schott.) as affected by different pruning intensities of tree crops- Sandip. M. Patel *et al*.
   Recommendation-The farmers of South Gujarat heavy rainfall zone (AES- III) growing *Terminalia arjuna*- Arjun Sadad, *Mitragyna parvifolia* -Kalam and *Adina cordifolia*- Haldu at 10 X 2.5 m spacing and growing Tannia as an intercrop are advised to remove side branches up to 1/3 height of trees from ground level which is helpful in maximum utilization of land with additional income. [Agresco-2015]

4. Collection and evaluation of Mucuna germplasm from South Gujarat for L-DOPA and protein content – N.S. Thakur *et al*.
   Recommendation-For higher L-DOPA (L-3, 4-dihydroxyphenylalanine) it is advisable to collect Mucuna from Valsad, Chikhali, Budhakeshwar village (Navsari Mahuva road), Bardoli and Vyara. Breeders willing to enhance L-DOPA content in Mucuna pruriens may incorporate accessions namely 29, 10, 14 and 13 in breeding stock. [Agresco-2015]

5. Rapid multiplication of *Dendrocalamus strictus* Nees. through in vitro regeneration techniques from juvenile explants- Jayesh Pathak *et al*.
   Recommendation- It is recommend to scientific community and tissue culture industries involved bamboo tissue culture that to get rapid multiplication of *Dendrocalamus srtictus* L. through in vitro regeneration from juvenile explants using tissue culture technique for large scale multiplication of the plantlets in which farmers can get true to type plants with all the advantages of vegetative propagation (clonal propagation). it is recommended to use auxiliary bud as explants source and absolute alcohol (100%) for 30 Sec + mercuric chloride (0.1%) for 4 min. for contamination control and maximum establishment. Whereas, for culture establishment and for shoot multiplication it is advise to use MS liquid media with 2.0 mg/lit BAP. However, for rooting it is advice to use MS + 1.5mg/l NAA + 3mg/l IBA and for acclimatization it is advice to use FYM+ Soil + Cocopeat (1:1:1). [Agresco-2015]

6. Rapid multiplication of *Bambusa vulgaris* through in vitro regeneration techniques from juvenile explants-
   Jayesh Pathak *et al*.
   Recommendation- It is recommend to scientific community and tissue culture industries involved bamboo tissue culture that to get rapid multiplication of *Bamboosa vulgaris* L. through in vitro regeneration from juvenile explants using tissue culture technique to use auxiliary bud as explants source and absolute alcohol (100%) for 30 Sec + mercuric chloride (0.1%) for 4 min. for contamination control and maximum establishment. Whereas, for shoot multiplication, culture established on simple MS media followed MS + 1mg/l BAP + 0.25 Kin. However, for rooting it is advice to use MS + 20mg/l IBA which gives highest rooting percentage and for acclimatization FYM + Soil + Cocopeat (1:1:1). [Agresco-2015]

7. Performance of turmeric (*Curcuma longa*) grown as an intercrop under different tree species in South Gujarat conditions: Mahesh K. Desai et al.

   Recommendation: The farmers of South Gujarat heavy rainfall zone – I (AES- III) growing *Mitragyna parvifolia* (Kalam), *Adina cordifolia* (Haldu) and *Gmelina arborea* (Sevan) at 10 X 2.5 m spacing are advised to grow Turmeric Variety – Sugandham planted at 30 x 15 cm spacing 55 having 19 rows as an intercrop in plantation of *Gmelina arborea* (Sevan) for additional income. [Agresco-2016]

8. Effect of different tree species leaf leachate on germination and seedling growth of some vegetable crops: Mukesh R. Parmar et al.

   Recommendation: The leaf leachates of various tree species reduced germination and growth parameters of different vegetable crops in laboratory as well as in nursery condition. The percentage of inhibition was maximum in Eucalyptus as compared to other tree species leaf leachates in laboratory as well as in nursery condition. Moreover the percentage of inhibition was minimum in Teak. The different vegetable crops have different mode of inhibition during the study. In both the growing conditions Brinjal (*Solanum melongena*), Okra (*Abelmoschus esculentus*) and Tomato (*Lycopersicon esculentum*) performed better for all parameters under study for the respective years of investigation while, V5: Chilli (*Capsicum anum*) performed poor for all the parameters under study. In case of leachates concentration, all the parameters under study were decreased as the concentration of leaf leachates increased in both the growing conditions. This response showed concentration dependent phenomenon as highest inhibitory effects were observed with 20 % leaf leachate concentration of all the tree species. [Agresco-2016]

9. Evaluation of carbon sequestration potential of different bamboo species in South Gujarat: Dr. Jayesh Pathak et al

   Recommendation: The farmers of South Gujarat heavy rainfall zone-I are advised to grow plantation of *Bambusa vulgaris* (green) for higher biomass and carbon sequestration. The thin walled and long internode bamboo species *Schizostachym pergracile* and *Schizostachym dullooa* are recommended for kite industry [Agresco-2017]

10. Growth and productivity of *Melia composita* Willd. under different spatial geometries:

    Dr. N.S. Thakur *et al*

    Recommendation: Farmers of South Gujarat heavy rain fall Zone-I are recommended to grow *M. composita Syn. M. dubia* (Malabar neem, Burma neem, nimbaro) at 2 x 2 m spacing for getting higher wood biomass and economic returns. [Agresco-2018]

11. Malabar Neem: Gujarat Navsari Melia Dubia 1 (GNMD-1)

    N.S. Thakur et al

    Recommendation: Malabar Neem (*Melia dubia* Cav.) tree variety GNMD-1 has performed very well in South Gujarat. After four years, the GNMD-1 has attained 10.90 m height with girth at breast height (GBH) of 49.50 cm. The volume at four years of age has been estimated 224.41 m3 /ha with good biomass of 103.23 tonnes/ha. It has clear bole up to 3.70 m free from knots. Its bole is round and clean. The GNMD-1 showed superiority of 9.0, 105.6 and 47.3 % in height; 7.84, 35.6 and 17.9 % in girth at breast height, and 26.77, 278.24 and 104.60 % in volume and biomass, over checks Kshitiz (NC), Ritu (NC) and Bahumukhi (NC), respectively. No incidence of insect pest was observed in GNMD-1. The variety GNMD-1 is recommended for farmers of South Gujarat for plantation. [Agresco-2018]

12. Progeny trials of *Melia composita* Willd. : **N. S. Thakur *et al*.**

    Recommendation: Farmers of South Gujarat, heavy rain fall Zone-I, are recommended to grow plantation of *M. composita* Syn. *M. dubia* (Malabar neem, Burma neem, nimbaro) using seed source from families GJ (NAU-9) for getting higher biomass and economic returns. [Agresco-2018]

13. Seed germination and seedling emergence study in Dev shower (Bombax insigne): **Vijay M. Prajapati *et al*.** Recommendation: Farmers, conservationists and nursery entrepreneurs are recommended to treat *Bombax insigne* (Dev shower) seeds with 50 ppm GA_3 for 15 min before sowing for better germination in order to propagate and conserve this endangered tree. [Agresco-2019]
14. **Performance of cucurbitaceous vegetable crops under Teak based Silvi-Horticultural system in South Gujarat: Sandip. M. Patel *et al*.**

    Recommendation: Farmers of south Gujarat heavy rainfall zone-I,AES-III, growing teak at 3m X 2m spacing are advised to grow Smooth gourd and Bottle gourd (Cucurbitaceous vegetable crop) as an intercrop in Rabi season under teak based silvi-horticultural system to get additional income as compared to sole plantation of mature teak crop. [Agresco-2019]

15. Development of volumetric equation for Teak (*Tectona grandis* Linn. f.) in South Gujarat:

L. K. Behera *et al*.

Recommendation : Teak growers and wood merchants are recommended to use volumetric equation, $V = 0.00004D^2H + 0.014$ and local volume table (given below) for estimation of volume of standing teak trees grown under plantation and natural forest of South Gujarat (D = Diameter at breast height; H = Tree height). [Agresco-2019]

Table showing local volume table developed for teak trees grown in south Gujarat condition

		Height (m)													
		5	8	11	14	17	20	23	26	29	32	35	38	41	42
Diameter at breast height (cm)	10	0.055	0.073	0.092	0.111	0.130	0.148						Volume (m^3)		
	15	0.094	0.130	0.167	0.204	0.241	0.277								
	20		0.206	0.267	0.328	0.389	0.449	0.510							
	25		0.301	0.392	0.483	0.574	0.664	0.755	0.846						
	30		0.415	0.542	0.669	0.796	0.922	1.049	1.176						
	35		0.548	0.717	0.886	1.055	1.223	1.392	1.561	1.730	1.898				
	40		0.700	0.917	1.134	1.351	1.567	1.784	2.001	2.218	2.434	2.651			
	45			1.142	1.413	1.684	1.954	2.225	2.496	2.767	3.037	3.308			
	50			1.392	1.723	2.054	2.384	2.715	3.046	3.377	3.707	4.038	4.369		
	55			1.667	2.064	2.461	2.857	3.254	3.651	4.048	4.444	4.841	5.238		
	60				2.436	2.905	3.373	3.842	4.311	4.780	5.248	5.717	6.186		
	65				2.839	3.386	3.932	4.479	5.026	5.573	6.119	6.666	7.213	7.760	8.306
	70					3.904	4.534	5.165	5.796	6.427	7.057	7.688	8.319	8.950	9.580
	75					4.459	5.179	5.900	6.621	7.342	8.062	8.783	9.504	10.225	10.945
	80							6.684	7.501	8.318	9.134	9.951	10.768	11.585	12.401

16. **Study of Carbon Sequestration Potential of Important Tree Species: L. K. Behera *et al*.**

Recommendation : Farmers are recommended to grow tree species such as **Casuarina, Eucalyptus and Bijasal** for obtaining higher biomass and carbon sequestration under South Gujarat. [Agresco-2019]

17. **Effect of gibberellic acid (GA_3) and nitrogen on the growth of *Tectona grandis* Linn. f. for production of stumps for planting: Dr. L. K. Behera**

Recommendation : The farmers and nursery entrepreneurs of South Gujarat are recommended to apply 100 mg N/kg soil (225 kg N/ha) in four equal splits *i.e.* at the time of sowing, 60, 120 and 180 days after sowing to produce the quality teak seedlings for stump preparation within 7-8 months. [Agresco-2019]

18. **Integrated nutrient management of Brinjal (*Solanum melongena* L.) under Teak (*Tectona grandis* L.) based Silvi-horticultural system in South Gujarat region: M. B. Tandel *et al*.**

Recommendation: Farmers of South Gujarat growing Brinjal (*Solanum melongena* L.) var. GNRB-1 as an intercrop under Teak having spacing of 3 x 2 m are recommended to apply 100 % RDF (100:50:50 NPK/ha) or 75 % RDN + 25 % Neem cake on the basis of cultivated area (6670 m^2) in teak based silvi-horticultural system to get additional income and higher production. It also increased fertility status of soil as well as growth of teak. [Agresco-2021]

19. **Annual biomass, volume and carbon stock estimation of *Melia dubia* Cav. through destructive method: N. S. Thakur et al.**

Recommendation: Farmers of South Gujarat, cultivating Malabar Neem, and forester and timber traders are recommended to use the below given table to estimate fresh biomass and volume of standing Malabar Neem tree. [Agresco-2021]

Table - Estimated *M. dubia* fresh biomass (kg/tree) based on regression equations

		DBH (cm)													
Tree height (m)		4	5	6	7	8	9	10	11	12	13	14	15	16	17
	4	5.75	8.02	10.79	14.07										
	5	6.76	9.60	13.06	17.16										
	6				11.94	16.44	21.54	27.24	33.54						
	7				14.39	19.64	25.59	32.24	39.59	47.64					
	8					22.84	26.78	31.19	36.06	41.40	47.20	53.46			
	9					24.69	29.13	34.09	39.57	45.57	52.10	59.14	66.71		
	10							36.99	43.08	49.75	57.00	64.83	73.24	82.23	
	11									53.92	61.90	70.51	79.76	89.65	100.18

Table - Estimated *M. dubia* over bark volume (m^3/tree) based on regression equation

		DBH (cm)													
Tree height (m)		4	5	6	7	8	9	10	11	12	13	14	15	16	17
	4	0.005	0.006	0.007	0.009										
	5	0.005	0.007	0.008	0.010										
	6				0.012	0.015	0.018	0.021	0.025						
	7				0.013	0.016	0.020	0.024	0.028	0.033					
	8					0.018	0.022	0.027	0.032	0.038	0.044	0.050			
	9					0.020	0.025	0.030	0.036	0.042	0.049	0.056	0.064		
	10							0.033	0.039	0.046	0.054	0.062	0.071	0.080	
	11									0.051	0.059	0.068	0.077	0.088	0.098

DBH=Diameter at breast height

20. Development of local volume table for Saru (*Casuarina equisetifolia*): Rajesh P. **Gunaga et al.**

Recommendation: It is recommended that farmers, foresters and wood merchants of South Gujarat can use volumetric equations, $V_1 = 0.00005 \times HD^2 + 0.0196$ (trees with DBH of 10 to 45 cm) and volumetric equation, $V_2 = 0.00003 \times HD^2 + 0.6874$ (trees with DBH of 45 to 70 cm) and below given local volume table for estimation of volume of standing trees of *Casuarina equisetifolia*. [Agresco-2021]

Table : Local volume table developed for Saru (*Casuarina equisetifolia*) trees grown in south Gujarat condition (m^3/tree)

			Height in m (Height range and mid value)											
	Diameter/ Height range		8-11	11-14	14-17	17-20	20-23	23-26	26-32	32-35	35-38	38-41	41-44	44-47
		Mid diameter / Height	9.5 m	12.5 m	15.5 m	18.5 m	21.5 m	24.5 m	27.5 m	33.5 m	36.5 m	39.5 m	42.5 m	45.5 m
DBH (cm) (Dia range and mid value)	10-15	12.5 cm	0.094	0.117	0.141	0.164	0.188	0.211	0.234					
	15-20	17.5 cm	0.165	0.211	0.257	0.303	0.349	0.395	0.441					
	20-25	22.5 cm		0.336	0.412	0.488	0.564	0.640	0.716	0.868				
	25-30	27.5 cm			0.606	0.719	0.833	0.946	1.059	1.286				
	30-35	32.5 cm				0.997	1.155	1.314	1.472	1.789	1.947	2.106	2.264	2.423
	35-40	37.5 cm				1.320	1.531	1.742	1.953	2.375	2.586	2.797	3.008	3.219
	40-45	42.5 cm				1.690	1.961	2.232	2.503	3.045	3.316	3.587	3.858	4.129
	45-50	47.5 cm						2.346	2.549	2.955	3.158	3.361	3.564	3.767
	50-55	52.5 cm						2.713	2.961	3.457	3.705	3.954	4.202	4.450
	55-60	57.5 cm							3.415	4.010	4.308	4.605	4.903	5.200
	60-65	62.5 cm							3.910	4.613	4.965	5.316	5.668	6.019
	65-70	67.5 cm								5.266	5.676	6.087	6.497	6.907

21. Macro propagation of different bamboo species by Culm Cutting with different root hormone treatments: Jayesh Pathak *et al*.

Recommendation: Farmers/nursery entrepreneurs of Gujarat are recommended to use 2 to 3 years culms of bamboo in the month of February-March by making two holes between two nodes and inject 120 ml (60 ml + 60 ml) NAA 500 ppm in *Bambusa balcooa*, 120 ml (60 ml + 60 ml) IBA 500 ppm in *Bambusa bambos* and *Dendrocalamus stocksii* and 120 ml (60 ml + 60 ml) IBA 200 ppm in *Bambusa vulgaris* var. vulgaris followed by sealing of holes for large scale propagation by culm cutting technique in the following manner.. [Agresco-2022]

Culm cutting process:

Select 2 to 3 years culms of bamboo having three nodes

↓

Make two holes at equal distance between three nodes

↓

Inject required quantity of rooting hormones

↓

Seal holes with cello tape

↓

Place culms horizontally in raised bed by keeping the holes upper side

↓

Uproot sprouted culms and transplant into polythene bags

22. Development of volumetric equation for Eucalyptus (*Eucalyptus* spp.): L. K. Behera et al.

Recommendation: It is recommended that farmers, foresters and wood merchants of South Gujarat can use volumetric equation, $V= 0.0621 + 0.000037\ D^2H - 0.0003D^2 + 0.0009DH - 0.0104\ H$ ($R^2=0.951$) (V= Volume in m^3, D= Diameter at Breast Height in cm, H= Height in m) for 10-60 cm DBH and below given local volume table for estimation of volume of standing Eucalyptus trees. [Agresco-2022]

Table: Local volume table developed for Eucalyptus (*Eucalyptus* spp.) trees grown in south Gujarat condition (m^3/tree)

			Height in m (Height range and mid value)											
DBH (cm) (Dia. range and mid value)	Diameter/ Height range		8-11	11-14	14-17	17-20	20-23	23-26	26-29	29-32	32-35	35-38	38-41	41-44
		Mid diameter/ Height	9.5 m	12.5m	15.5 m	18.5 m	21.5 m	24.5 m	27.5 m	30.5 m	33.5 m	36.5 m	39.5 m	42.5 m
	10-15	12.5 cm	0.078	0.098	0.118	0.138	0.158	0.178						
	15-20	17.5 cm	0.129	0.179	0.229	0.279	0.329	0.379	0.429					
	20-25	22.5 cm	0.182	0.267	0.353	0.439	0.525	0.610	0.696	0.705				
	25-30	27.5 cm		0.364	0.491	0.618	0.745	0.872	0.999	1.126	1.253			
	30-35	32.5 cm		0.469	0.643	0.817	0.991	1.165	1.338	1.512	1.686			
	35-40	37.5 cm			0.809	1.035	1.261	1.487	1.713	1.939	2.165	2.392		
	40-45	42.5 cm			0.988	1.272	1.556	1.840	2.124	2.408	2.692	2.976		
	45-50	47.5 cm			1.181	1.528	1.876	2.223	2.571	2.918	3.266	3.613	3.961	
	50-55	52.5 cm				1.804	2.220	2.637	3.053	3.470	3.886	4.303	4.719	5.136
	55-60	57.5 cm					2.589	3.080	3.571	4.063	4.554	5.045	5.536	6.027

Table: Local volume table developed for Eucalyptus (*Eucalyptus* spp.) trees grown in south Gujarat condition (ft^3/tree)

			Height in ft (Height range and mid value)											
	Diameter/ Height range		26.25-36.09	36.09-45.93	45.93-55.77	55.77-65.62	65.62-75.46	75.46-85.30	85.30-95.14	95.14-104.99	104.99-114.83	114.83-124.67	124.67-134.51	134.51-144.36
		Mid diameter/ Height	31.17 ft	41.01 ft	50.85 ft	60.70 ft	70.54 ft	80.38 ft	90.22 ft	100.07 ft	109.91 ft	119.75 ft	129.59 ft	139.4 ft
DBH (inch) (Dia. range and mid value)	4-6	5 inch	2.762	3.465	4.167	4.870	5.573	6.275						
	6-8	7 inch	4.545	6.312	8.079	9.847	11.614	13.381	15.149					
	8-10	9 inch	6.418	9.446	12.474	15.502	18.530	21.558	24.586	24.886				
	10-12	11 inch		12.867	17.352	21.837	26.322	30.806	35.291	39.776	44.261			
	12-14	13 inch		16.576	22.713	28.850	34.988	41.125	47.263	53.400	59.538			
	14-16	15 inch			28.557	36.543	44.529	52.515	60.501	68.488	76.474	84.460		
	16-18	17 inch			34.883	44.914	54.945	64.976	75.007	85.038	95.069	105.100		
	18-20	19 inch			41.693	53.965	66.236	78.508	90.779	103.051	115.323	127.594	139.866	
	20-22	21 inch				63.694	78.402	93.110	107.819	122.527	137.235	151.944	166.652	181.361
	22-24	23 inch					91.443	108.784	126.125	143.466	160.807	178.148	195.489	212.830

23. Effect of different pre-sowing treatments on germination of Red Sanders (*Pterocarpus santalinus* L. f.): **M. B. Tandel et al.**

Recommendation: Nurseryman and forest dwellers/ farmers are recommended to soak pods of Red Sanders (*Pterocarpus santalinus* L. f.) in GA_3 @ 500 mg/l for 1 day followed by sowing in the month of March in sand bed for sprouting and then after transplanting at two leaves stage in to growing media of Soil: Sand: FYM (2:1:2) to enhance seed germination and seedling growth. [Agresco-2022]

Note: Dilute 500 mg of GA_3 in 100 ml of water along with 5-10 ml of alcohol. Mix it properly till GA_3 dissolved and make final volume up to 1 litre.

24. Effect of Eucalyptus plantation on soil fertility in South Gujarat: **V. M. Prajapati et al.**

Recommendation: It is recommended to farmers of Gujarat that under Eucalyptus plantation, Soil pH is reduced whereas organic carbon, available P_2O_5, available K_2O, soil bacterial and fungal population are increased. Moreover, soil EC and available nitrogen are not affected due to Eucalyptus plantation. [Agresco-2022]

25. Evaluation of nutritive value of Leaves of different bamboo species: **Jayesh Pathak *et al*.**

Scientific Information: Bamboo leaves are rich in nutritive value in terms of dry matter, crude protein, calcium, phosphorus, fat, carbohydrate, crude fibre, nitrogen free extract and total ash content. Therefore, it can be used for further palatability and digestibility experiments. Top five species with respect to nutritive parameters are as under. [Agresco-2022]

Sr. No.	Nutritive Parameters	Bamboo species
1.	Moisture Content (%) and Dry Matter Content (%)	*Thyrsostachys oliveri*, *Bambusa multiplex*, *Ochlandra travancorica*, *Schizostachyum pergracile* and *Bambusa pallida*.
2.	Crude Protein (%)	*Dendrocalamus hamiltonii*, *Dendrocalamus giganteus*, *Dendrocalamus sikkimensis*, *Bambusa wamin* and *Gigantochloa atroviolacea*.
3.	Calcium (%)	*Ochlandra travancorica*, *Bambusa pallida*, *Bambusa balcooa*, *Bambusa vulgaris* var. *vittata* and *Dendrocalamus hamiltonii*.
4.	Phosphorus (%)	*Gigantochloa atroviolacea*, *Bambusa nutans*, *Thyrsostachys oliveri*, *Dendrocalamus sikkimensis* and *Bambusa vulgaris* var. *vulgaris*.
5.	Ether extract or Fat (%)	*Bambusa multiplex*, *Dendrocalamus giganteus*, *Thyrsostachys oliveri*, *Bambusa wamin* and *Bambusa vulgaris* var. *vittata*.
6.	Carbohydrate (%)	*Bambusa vulgaris* var. *vulgaris*, *Dendrocalamus strictus*, *Schizostachyum pergracile*, *Dendrocalamus stocksii* and *Bambusa nutans*.
7.	Crude Fibre (%)	*Bambusa polymorpha*, *Ochlandra travancorica*, *Dendrocalamus stocksii*, *Bambusa vulgaris* var. *vittata* and *Bambusa nutans*.
8.	Nitrogen Free Extract (%)	*Bambusa vulgaris* var. *vulgaris*, *Dendrocalamus stocksii*, *Bambusa nutans*, *Dendrocalamus strictus* and *Bambusa vulgaris* var. *vittata*.
9.	Total Ash Content (%)	*Bambusa wamin*, *Dendrocalamus giganteus*, *Dendrocalamus strictus*, *Bambusa vulgaris* var. *vittata*, *Gigantochloa atroviolacea* and *Bambusa vulgaris* var. *vulgaris*.

26. Effect of windbreak (*Casuarina equisetifolia* L.) on productivity of paddy in South Gujarat: V. M. Prajapati *et al*.

Recommendation: The Farmers of South Gujarat heavy rainfall zone-I are recommended that paddy grown under single line windbreak of Casuarina (*Casuarina equisetifolia* L.) planted at 1 m spacing in north-south direction having average of height of 20 m and DBH of 28 cm on the farm boundary reduced the lodging damage and improved the paddy yield as well as soil quality as compared to paddy grown in open plot (without any windbreak). [Agresco-2023]

27. Phenological study of Lesser known and Threatened tree species of South Gujarat: L. K. Behera *et al*.

Scientific Information: Among 15 tree species studied, nine tree species such as *Sterculia urens*, *Sterculia villosa*, *Dalbergia lanceolaria*, *Oroxylum indicum*, *Soymida febrifuga*, *Dalbergia latifolia*, *Stereospermum chelonoides* and *Albizia procera* are deciduous in nature; however, species such as *Bauhinia malabarica*, *Pterocarpus marsupium*, *Ougeinia dalbergioides* and *Miliusa tomentosa* showed leaf fall and leaf renewal events but not shown leafless condition. Further, *Mallotus philippensisis* found to be typical evergreen species. Vegetative phenology and reproductive phenology like flowering, fruiting and fruit/ seed fall information can be used for collection of seeds for nursery practice (as in the given table). This information can also be useful for conservation and management of these species. [Agresco-2023]

Sr. No.	Tree Name	Nature of Tree species	Leaf fall period	Leaf renewal period	Leafless period	Flowering period	Fruiting period	Fruit fall period
1.	*Semicarpus anacardium*	Deciduous	Nov- Apr	May- Jul	Apr- May	Jun- Sept	Sept- Feb	Feb- Mar
2.	*Sterculia urens*	Deciduous	Sept-Dec	May-Jul	Jan-Apr	Dec-Feb	Jan-Mar	Mar-May
3.	*Sterculia villosa*	Deciduous	Nov-Feb	May-Jul	Feb-May	Jan-Mar	Mar-Apr	Apr-May
4.	*Dalbergia lanceolaria*	Deciduous	Nov- Mar	May- Jul	Apr	Apr- May	May- Jul	Jan- Mar
5.	*Oroxylum indicum*	Deciduous	Nov-Mar	May-Jul	Apr	Jul-Oct	Nov-Feb	Mar-Apr
6.	*Soymida febrifuga*	Deciduous	Jan-Mar	May-Jul	Apr	Mar-Apr	Apr-May	Jun
7.	*Dalbergia latifolia*	Deciduous	Nov-Mar	May-Jun	Apr	Apr-May	Apr-Jun	Dec-Mar
8.	*Stereospermum chelonoides*	Deciduous	Nov- Mar	Apr- Jun	April	Mar- May	May- Aug	Nov- Dec
9.	*Albizia procera*	Deciduous	Nov-Mar	Apr-July	Mar-Apr	Jul-Aug	Sept-Oct	Mar-May
10.	*Bauhinia malabarica*	Nearly evergreen	Nov- Mar	Apr- Jun	-	Sept- Oct	Nov- Feb	Mar- May
11.	*Pterocarpus marsupium*	Nearly evergreen	Nov- Apr	Apr- Jun	-	Oct- Dec	Nov- Feb	Feb- Apr
12.	*Ougeinia dalbergioides*	Nearly evergreen	Jan- Mar	Apr- Jun	-	Feb- Apr	Apr- May	May
13.	*Miliusa tomentosa*	Nearly evergreen	Jan-Mar	Mar-Jun	-	Apr-May	May-Jun	Jun-Jul
14.	*Hardwickia binata*	Nearly evergreen	Nov-May	Dec-Jul	-	-	-	-
15.	*Mallotus philippensis*	Evergreen	Aug- May	Feb- July	-	Nov- Jan	Jan- Mar	Mar- May

28. Study of growth and bark biomass potential of Ashok [*Saraca asoca* (Roxb.) Willd.)] under different spacing: R. P. Gunaga *et al*.

Recommendation: Nurserymen are recommended to use bold seeds (single seed weight of 9.9 to 13 g) followed by soaking seeds in normal water for 24 hrs to obtain higher seed germination (>85%) and seedling growth in Ashok. Farmers are suggested to raise Ashok plantation at 1m x 2m spacing for bark harvesting and plantation can be managed under coppice system after bark harvesting at the age of 5½ years by maintaining 2 to 3 coppice shoots per stem for higher growth and bark yield. [Agresco-2024]

29. Influence of pre-sowing treatments on germination and early growth in Khatichamol (*Bauhinia malabarica* Roxb.): L. K. Behera *et al*.

Recommendation: Farmers, foresters and nurserymen are recommended to use pre-sowing treatment by soaking seeds in 98 per cent concentrated sulphuric acid (H2SO4) for 30 min followed by soaking in normal water for 24 hrs for achieving higher seed germination and seedling growth in Khati chamol (*Bauhinia malabarica*). [Agresco-2024]

30. **Influence of pre-sowing treatments on germination and early growth in Rapid multiplication of *Dendrocalamus hamiltonii* through in vitro regeneration techniques from nodal explant: Jayesh Pathak *et al*.**

Scientific Information: In bamboo species *Dendrocalamus hamiltonii*, contamination control by Absolute Alcohol (70 %) for 30 Sec + Mercuric Chloride (0.1 %) for 5 Min followed by shoot multiplication in MS + 4.0 mg/l BAP and rooting in 3mg/l IBA + 3mg/l IAA + 2 % Sucrose and final acclimatization in Soil + sand + Vermicompost (1:1:1) media results in rapid multiplication through in vitro regeneration techniques from nodal explant. [Agresco-2024]

B. COMPLETED PROJECTS

Sr. No.	Title of Project	Name of PI	Funding Agency	Duration
1.	Establishment of Model Nursery and Popularizing planting of superior quality planting material of economically important Agroforestry Tree Species.	Dr. D. B. Jadeja	RKVY, MoAC, New Delhi	3 year
2.	Forest Resource Survey of Vyara Forest Division	Dr. N. S. Thakur	Gujarat Forest Department	2 Year
3.	Developing Aqua Agroforestry base model for Dandi Village	Dr. M. B. Tandel	RKVY, MoAC, New Delhi	2012
4.	Promotion of Scientific management of Palmyra palm	Dr. Jayesh Pathak	RKVY, MoAC, New Delhi	2012

C. ONGOING PROJECTS

Sr. No.	Title of the Project	Name of PI	Funding Agency	Year of start
1.	Research in Agroforestry Systems	Dr. Mukesh R Parmar	Govt. of Gujarat	1998
2.	A Pilot Project for development of Aqua Agroforestry based model for coastal areas of south Gujarat- Dandi	Dr. M. B. Tandel	Govt. of Gujarat	2014
3.	Development of Bamboo Resource Centre	Dr. Jayesh Pathak	Govt. of Gujarat	2014
4.	Carbon Sequestration Potential of forest trees species of South Gujarat	Dr. R.P. Gunaga	Govt. of Gujarat	2014
5.	Popularizing Melia composita based agroforestry system in South Gujarat through production of quality planting material	Dr. N. S. Thakur	Govt. of Gujarat	2016
6.	Development of Industrial Agroforestry Model for South Gujarat Region	Dr. V. M. Prajapati	Govt. of Gujarat	2018
7.	Regeneration Techniques for Lesser Known and Threatened species of South Gujarat	Dr. L. K. Behera	Govt. of Gujarat	2019
8.	Strengthening of Bamboo Resource Centre	Dr. Jayesh Pathak	Govt. of Gujarat	2023

D. SEMINAR/SYMPOSIUM/WORKSHOP ORGANIZED

Sr. No.	Title of the Seminar/Symposia/Workshop	Organising Secretary	Date & Venue
1.	National Seminar on "Interventions for Environmental Moderation"	Dr. D.B. Jadeja	8-10th Jan. 2008, NAU, Navsari ,
2.	National Seminar on "Agroforestry: An evergreen agriculture for food security and environmental resilience"	Dr. D.B. Jadeja	2-4th Feb. 2012, NAU, Navsari ,
3.	One day Workshop on "Bamboo for Rural Gujarat" & World Bamboo Day celebration	Dr. Jayesh Pathak	18th Sept., 2013 NAU, Navsari
4.	Bamboo for Rural Farmers	Dr. Jayesh Pathak	18th Sept., 2014 NAU, Navsari
5.	Bamboo Cultivation and Management	Dr. Jayesh Pathak	18th Sept., 2015 NAU, Navsari
6.	National Seminar on Palmyra Palm	Dr. Jayesh Pathak	7-8 Jan., 2016 NAU, Navsari
7.	National Seminar on "Forest and Tree- Based Land Use Systems for Livelihood, Nutritional and	Dr. N.S. Thakur	21-23 Dec., 2016 NAU, Navsari

Sr. No.	Title of the Seminar/Symposia/Workshop	Organising Secretary	Date & Venue
8.	Bamboo Farming and Its Management	Dr. Jayesh Pathak	18th Sept., 2017 NAU, Navsari
9.	Bamboo Farming and Its Management	Dr. Jayesh Pathak	18th Sept., 2019 NAU, Navsari
10.	Bamboo Farming and Its Management	Dr. Jayesh Pathak	18th Sept., 2020 NAU, Navsari
11.	Bamboo Farming and Its Management	Dr. Jayesh Pathak	18th Sept., 2021 NAU, Navsari
12.	Bamboo Farming and Its Management & Bamboo Products Exhibition	Dr. Jayesh Pathak	12th to 18th Sept., 2022 NAU, Navsari
13.	NAU-IES-IUFRO Conference on "Tree Based Diversified Land-use System: Augmenting Livelihood Security and Industrial Growth"	Dr. N. S. Thakur	15th to 17th February, 2023 NAU, Navsari
14.	One Week Hands on Training Programme and Workshop on "Bamboo Farming and Products"	Dr. Jayesh Pathak	11th to 18th Sept., 2023 NAU, Navsari
15.	One Week Training Programme and Workshop on "Bamboo Farming, Propagation, Innovative Furniture and Product	Dr. Jayesh Pathak	13th to 18th Sept., 2024 NAU, Navsari

E. PUBLICATIONS:

(A) PAPER PUBLISHED IN NATIONAL AND INTERNATONAL JOURNALS

1. Bansude, A.A., R.P. Gunaga, A.B Mirgal, S.S. Narkhede, A.D. Rane, S.G. Bhave and A.P. Rewale (2013). Variation in Seed Traits and Germination among different Seed Sources of *Garcinia talbotii* in Maharashtra. *Journal of Tree Sciences*, **32** (1&2): 27-31.
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6. Behera, L. K., Patel, D. P., Sinha, S. K., Gunaga, R. P. and Jadeja, D. B. (2016). Variation in Physical Properties of Wood Among Twenty Clones of *Eucalyptus* in South Gujarat. *Advances in Life Sciences*, **5**(5): 1704-1708.
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12. Bhardwaj, S. K., Verma, K. S. and Thakur, N. S. (2009). Impact of exceptionally high rain and snowfall on chir pine plantations in Chamba district of Himachal Pradesh. *Indian Forester,* **135(12)**: 1737-1742.
13. Bhatnagar, P., J. Singh, M.C. Jain, Bhim Singh, Manmohan J. R. and L.K. Dashora (2012). Studies on seasonal variations in developing fruits of Nagpur Mandarin (*Citrus reticulate* Blanco) under Jhalawar condition. *Asian Journal of Horticulture*, **7**(2): 263-265.
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26. Gayakvad, P., Tandel, M. B., Bhalawe, S., Nayak, D. and Jadeja, D. B. (2015). Carbon Credit Accrued Under Different Land Use Systems in Dangs District. *Trends in Biosciences*, **18**(7): 4548-4551.
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55. Dholariya, C.A., Sukhadiya, M., Behera, L.K., Mehta, A.A., Nayak, D. and Patel, S.M. (2019). *Dalbergia lanceolaria* L.f.: Prospect of a lesser known tree species in India. *Van Sangyan* 6(4):9-11.
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61. Sukhadiya, M., Dholariya, C.A., Behera, L.K., Mehta, A.A., Patel, D.P. and Gunaga, R.P. (2019). Commercial utilization and propagation of Gum Karaya (*Sterculia urens* Roxb.) MFP News, XXIX(3):5-8.
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Sr. No.	Popular Articles in Gujarati
66.	One of the Important Vegetable vine crop – Bottle gourd S. N. Sarvaiya, Y. N. Tandel, M. B. Tandel, S. Y. Patel and Ku. Bhumica Tandel Krishi Jivan 45 (10) May 2013, Page No. 7-11
67.	Scientific management of Sandalwood [Santalum album L.] V.M. Prajapati, M. B. Tandel and Jayesh Pathak Ek Praysh- Krushi Vikas Mashik, (7) April 2013, Page No. 28-29
68.	Ailanthus (*Ailanthus excelsa* Roxb.) M. B. Tandel, B. S. Desai and V.M. Prajapati Krishi Jivan, June 2016, Page No. 28
69.	Scientific management of Bamboo Jayesh Pathak, V.M. Prajapati, M. B. Tandel, A. A. Kazi and S. K. Sinha University Prakashan No. 25/2015-16, Page No. 1-22
70.	Casuarina (*Casuarina equisetifolia* L.) M. B. Tandel, V.M. Prajapati and B. S. Desai Krishi Jivan, June 2016, Page No. 32
71.	An important tree for farmer – Sandalwood V.M. Prajapati, M. B. Tandel, Manmohan J. R., R. P. Gunaga and Jayesh Pathak Krushi Jivan, June 2016, Page No. 11-12
72.	Khair (*Acacia catechu* (L.) Willd.) M. B. Tandel, M. R. Parmar and V.M. Prajapati Krishi Jivan, June 2016, Page No. 34
73.	Ailanthus (*Ailanthus excelsa* Roxb.) M. B. Tandel, B. S. Desai and V.M. Prajapati Krishi Jivan, June 2016, Page No. 28
74.	Neem (*Azadirachta indica* A. Juss.) V.M. Prajapati, M. B. Tandel and B.S. Desai Krishi Jivan, June 2016, Page No. 33

Sr. No.	Popular Articles in Gujarati
75.	Plant trees on bunds to get additional income V.M. Prajapati, M. B. Tandel, M. K. Desai, D. Nayak and M. R. Parmar Krishi Jivan, June 2016, Page No. 18
76.	Scientific management of Simarouba glauca DC. V.M. Prajapati, M. B. Tandel, M. R. Parmar and S. A. Huse Krishi Jivan, June 2016, Page No. 24-26
77.	Sisham (*Dalbergia latifolia* Roxb.) V.M. Prajapati, M. B. Tandel and M. R. Parmar Krishi Jivan, June 2016, Page No. 29
78.	Success story of farming of trees V.M. Prajapati and M. B. Tandel Krishi Jivan, June 2016, Page No. 27
79.	Teak: A best timber wood V.M. Prajapati, M. B. Tandel and M. R. Parmar Krishi Jivan, June 2016, Page No. 9-10
80.	Timru (*Diospyros melanoxylon* Roxb.) V.M. Prajapati, M. B. Tandel and M. R. Parmar Krishi Jivan, June 2016, Page No. 30
81.	Scientific management of Simarouba glauca DC. V.M. Prajapati, M. B. Tandel, M. R. Parmar and S. A. Huse Krishi Jivan, June 2016, Page No. 24-26
82.	Sisham (*Dalbergia latifolia* Roxb.) V.M. Prajapati, M. B. Tandel and M. R. Parmar Krishi Jivan, June 2016, Page No. 29

F. M.Sc./ Ph.D. THESIS

DEPARTMENT OF SILVICULTURE & AGROFORESTRY

M. Sc. FORESTRY (Agroforestry & Ecology / Agroforestry / Plantation Technology/SAF)				
SN	Name of Student	Research Title	Major Advisor	Year
1.	Mr. Ashish D. Patel 04-3287-92	Allelopathic effects of few multipurpose tree and arable crops on seed germination and seedling growth	Dr. R. R. Shah	1995
2.	Mr. Vitthal Ramakrishna Karoshi 04-3371-93	Allelopathic effect of agro-forestry tree species on arable crops	Dr. N. S. Patil	1995
3.	Mr. Hasmukhbhai Prabhudas Panchasara 04-3286-92	Effect on auxins on rooting of cuttings in *Dalbergia sissoo* Roxb.	Dr. B. G. Vashi	1995
4.	Mr. Bharatkumar Ravjibhai Vekariya 04-3290-92	Propagation of *Ficus glomerata* Roxb. By stem cutting with aid of auxins	Dr. B. G. Vashi	1995
5.	Mr. Kshitish Babarav Mehta 04-3285-92	Intercropping of agricultural crops with forest tree species.	Dr. M. U. Kukadia	1995
6.	Mr. Harshad Lalbhai Patel 04-3288-92	Effect of forest tree species on the production of agricultural crop.	Dr. N. S. Patil	1995
7.	Mr. Vijaykumar Somalal Patel 04-3289-92	Effect of pre -sowing treatment of seed on germination and subsequent growth of seedlings of some forest tree species.	Dr. M. U. Kukadia	1995
8.	Mr. Sanjay Vashista 04-3369-94	Effect of various potting mixtures on the germination and growth parameters of few agro-forestry tree species in the nursery stages	Dr. M. U. Kukadia	1996
9.	Mr. Kirtikumar B. Patel	Growth and productivity of agricultural crop in Agri-silvicultural	Dr. R. R. Shah	1996

SN	Name of Student	Research Title	Major Advisor	Year
10 .	Mr. Ashutosh Sharma 04-3365-94	Effect of different salinity level on germination and initial growth parameter of different agro-forestry tree species in nursery stage	Dr. M. U. Kukadia	1996
11 .	Mr. Navin Kumar Patle 04-3366-94	Growth and production of drilled paddy (*Oryza sativa* L). under *Terminalia arjuna* Bedd. and *Mitragyna parvifolia* Korth. in an Agro-silvicultural system	Dr. N. S. Patil	1996
12 .	Mr. Saboliya Khimjibhai M. 04-3780-95	The intercropping of flowers crops (*Gaillardia pulchella* Foug. and *Jagetes patula* L.) with forest tree species (*Terminalia arjuna* Bedd. and *Mitragyna parvifolia* Korth.)	Dr. N. S. Patil	1998
13 .	Mr. Dineshkumar D. Dasa 04-3776-95	Effect of different tree cover on soil characteristics	Dr. N. S. Patil	1998
14 .	Mr. Ghanshyam L. Gaudani 04-3777-95	Effect of plant growth regulation on growth & development of *Cassia fistula* seedling	Dr. B. G. Vashi	1998
15 .	Mr. Raghji H. Patel 04-3779-95	Effect of different size of polythene bags and fertilizers on the growth of some forestry tree species in the nursery stage	Dr. M. U. Kukadia	1998
16 .	Ms. Jilpa Hiren Khatri 04-3778-95	Micropropagation of Teak (*Tectona grandis* Linn. F)	Dr. M. U. Kukadia	1998
17 .	Ms. Urvashi I. Prajapati 04-4026-97	Micropropagation of rosewood (*Dalbergia latifolia* Roxb.)	Dr. R. R. Shah	2000
18 .	Mr. Prashant V. Patel 04-3851-96	Studies of soil parameters under different forest cover of Dangs district	Dr. M. U. Kukadia	2000
19 .	Mr. Ajay Sharma 04-4237-2000	Micro-propagation of *Paulownia tomentosa* Steud.	Dr. M. U. Kukadia	2001
20 .	Mr. Vishal Mahajan 04-4241-2000	Effect of different spacements and pruning intensities of *Casuarina equisetifolia* L. on growth and yield of *Trigonella foenum-graecum* grown as intercrop	Dr. D. B. Jadeja	2001

SN	Name of Student	Research Title	Major Advisor	Year
21.	Mr. Sachin B. Shinde 04-4028-97	Effect of forest tree species on the growth and production of forage crops.	Dr. N. S. Patil	2001
22.	Mr. Arvind D. Chavda 04-4238-2000	Feasibility of growing aromatic grasses in agro-forestry system	Dr. R. R. Shah	2002
23.	Mr. Bharatkumar S. Gunjal 04-4239-2000	Influence of bio-fertilizer on growth biomass and nutrient uptake in *Jatropha curcas* L.	Dr. B. G. Vashi	2002
24.	Mr. Goraniya Jayesh. S 04-4240-2000	Influence of nitrogen fixing trees on the status of soil micronutrient	Dr. M. U. Kukadia	2002
25.	Mr. Parekh Dhavalkumar J. 04-4833-2001	Feasibility of growing different pulse crop with forest tree species under Agroforestry system	Dr. N. S. Patil	2003
26.	Mr. Yogendrasing J. Rana 04-4389-2000	Micro-propagation of *Sterculia urens* Roxb.	Dr. M. U. Kukadia	2003
27.	Mr. Tandel Minalkumar B. 04-4834-2001	Influence of tree cover and litter fall on physico-chemical properties of soil and availability of nutrients.	Dr. M. U. Kukadia	2003
28.	Mr. Patel Dhanrajbhai R. 04-5255-2002	The effect of salinity on the growth of *Simmondsia chinensis* L. raised by seed and cutting at nursery stage.	Dr. M. U. Kukadia	2004
29.	Mr. Limbasiya Rakeshkumar T. 04-5255-2002	Effect of salinity on the growth of *Jatropha curcas* L. raised by seeds and cutting at an early stage	Dr. D. B. Jadeja	2004
30.	Mr. Rahul M. Patel 04-5587-2003	The effect of *Casuarina equisetifolia* L. raised at different spacements on physico-chemical properties of soil in South Gujarat condition.	Dr. D. B. Jadeja	2005
31.	Mr. Kathota J.C. 04-0006-2004	Performance of *Dendrocalamus strictus* Nees. and *Bambusa arundinacea* (Retz) Willd. for pickle making	Dr. B. G. Vashi	2006

SN	Name of Student	Research Title	Major Advisor	Year
32.	Mr. Kumar Gautam 04-0007-2004	Germination behavior of White teak, Mahuva, Indian Rosewood and Baheda as influenced by size of seeds	Dr. M. U. Kukadia	2006
33.	Mr. Desai Maheshkumar K. 04-0003-2004	Effect of different tree species on soil amelioration	Dr. B. G. Vashi	2006
34.	Mr. Sandip M. Patel 04-0008-2004	Influence of bio-fertilizer on growth, biomass and nutrient uptake in *Jatropha curcas* L.	Dr. N. S. Patil	2006
35.	Mr. Patel Vimalkumar S. 04-5588-2003	Influence of various potting mixture on germination of *Terminalia bellerica*	Dr. N. S. Patil	2006
36.	Mr. Prajapati Vijaykumar M 04-0009-2004	Assess the performance of *Curcuma longa* L. grown as an intercrop under tree species	Dr. N. S. Patil	2006
37.	Mr. Dileshwar Nayak 04-0004-2004	Evaluation of different provenances of *Jatropha curcas* L. in South Gujarat	Dr. D. B. Jadeja	2006
38.	Mr. Ahir Sanjaykumar M. 04-0001-2004	Performance of *Colocasia esculanta* (L) Schott. grown as an intercrop under tree species	Dr. B. G. Vashi	2006
39.	Mr. Prajapati Ketankumar N. 04-0147-2005	Effect of fertilizer and spacing on growth of *Jatropha curcas* L.	Dr. N. S. Patil	2007
40.	Mr. Laxmikanta Behera 04-0146-2005	Micro-propagation and development of salt tolerant cell line in *Jatropha curcas* L.	Dr. D. B. Jadeja	2007
41.	Mr. Ambuj Ranjan 04-0145-2005	Effect of various seed weight classes and depth of planting on germination behavior, growth and biomass of *Terminalia bellerica* L., *T. arjuna* and *Madhuca indica*	Dr. M. U. Kukadia	2007
42.	Mr. Mehta Abhishek A.	Efficacy of different methods for the extraction of annatto colour from the	Dr. B. G. Vashi	2008

SN	Name of Student	Research Title	Major Advisor	Year
43.	Mr. Parmar Mukeshbhai R. 04-0245-2006	Performance of *Jatropha curcas* L. under different pruning intensities and fertilizer under irrigated condition in South Gujarat	Dr. D. B. Jadeja	2008
44.	Mr. Abduladil A. Kazi 04-0247-2006	Soil attributes in the protected area of Vansda National Park Dangs under different vegetation and topography	Dr. M. U. Kukadia	2008
45.	Mr. Jayesh Pathak 04-0246-2006	Micropropagation of bamboo (*Dendrocalamus strictus*)	Dr. R. R. Shah	2008
46.	Mr. Zahoor Ahmad Sofi 04-0359-2007	Effect of plant growth regulators on rooting and sprouting behaviour of cutting of *Derris indica* L. Bennet.	Dr. M. U. Kukadia	2009
47.	Mr. Rajveer Singh Chauhan	*In-vitro* regeneration of *Acacia mangium* Willd.	Dr. S. K. Jha	2009
48.	Ms. Shedage Swati Mahipati 04-0358-2007	Effect of storage on germination and viability of *Jatropha curcas* L.	Dr. D. B. Jadeja	2009
49.	Mr. Rajmani Kumar 04-0249-2006	Evaluation of inter cropping of maize grown under Horti-silvicultural system of Agroforestry in South Gujarat condition	Dr. N. S. Patil	2009
50.	Ms. Vishnu Kanwar Solanki 04-0433-2008	Effect of different plant growth regulators on vegetative propagation of khair (*Acacia catechu* Willd.)	Dr. M. U. Kukadia	2010
51	Mr. Sahailendra Bhalawe 04-0431-2008	Studies on nutrient release pattern in decomposition litter of multipurpose trees	Dr. M. U. Kukadia	2010
52.	Ms. Sangode Ekta Sharad 04-0430-2008	Development of insect pest management module for eucalyptus gall insect (*Laptocybe invasa* Fisher and Lasalle; Hymenptera: Eulophidae) in nursery and young plantation	Dr. D. B. Jadeja	2011
53.	Mr. Patel Tejas Rameshbhai 04-0429-2008	Surveillance of gall insect (*Laptocybe invasa* Fisher and Lasalle) in eucalyptus in different agroclimatic regions of south Gujarat and Vadodara	Dr. D. B. Jadeja	2010

SN	Name of Student	Research Title	Major Advisor	Year
54.	Mr. Gaikwad Paresh Ganeshbhai - 04-0428-2008	Effect of foliar application of GA3, Ethrel and copper sulphate on flowering behavior and yield of *Jatropha curcus* L.	Dr. D. B. Jadeja	2011
55.	Ms. Sreedevi Madhusudanan 04-0432-2008	Tree allometry and Carbon Sequestration potential in the above ground biomass of selected multipurpose tree species in South Gujarat	Dr. N. S. Patil	2011
56.	Mr. Mukesh Parihar 04-550-2009	Survey and surveillance of major pests of *Terminalia arjuna* (Roxb.) Wight & Arnold (Arjun) and their management	Dr. D. B. Jadeja	2011
57.	Mr. Rathwa Vikram Singh J. 04-0551-2009	Metabolic change in relation to heavy metal stress in Karanja.	Dr. S. K. Jha	2011
58.	Mr. Sharvan Kumar 04-0553-2009	Growth and production of green-gram under *Terminalia arjuna* and *Mitragyna parviflora* in an agri-silvicultural system	Dr. N. S. Patil	2011
59.	Mr. Makwana Hareshkumar Pitambarbhai 04-0351-2007	Effect of some plant growth regulating substances on the rooting of eucalyptus cutting	Dr. M. U. Kukadia	2011
60.	Mr. Shriram Nagar 04-0554-2009	Identification of suitable intercrop under perennial trees in south Gujarat	Dr. M. U. Kukadia	2011
61.	Mr. Sanjeev Ranjan 04-0522-2009	Morphological, Biochemical and molecular variations among different clones of Casuarina	Dr. D. B. Jadeja	2011
62.	Mr. Ramraj Meena 04-897-2010	Efficacy of some fodder crops grown under kalam and arjun based silvopastoral system in south Gujarat	Dr. D. B. Jadeja	2012
63.	Mr. Patel Ruchitkumar Ashwinbhai 04-0893-2010	Studies on phenological events of some agroforestry tree species.	Dr. B.S. Desai	2012

SN	Name of Student	Research Title	Major Advisor	Year
64.	Mr. Suvera Anilkumar Hujabhai 04-0904-2010	Performance of *Ocimum* spp. under silvi-medicinal agroforestry systems in south Gujarat	Dr. N. S. Thakur	2012
65.	Mr. Bhagirath Singh Meena 04-887-2010	Scarification and growth regulator treatments of Teak (*Tectona grandis* Linn. f.) drupes in relation to germination and seedling vigour	Dr. D. B. Jadeja	2012
66.	Mr. Choudhary Sandipbhai Surajbhai - 04-0889-2010	Influence of various bio fertilizers and organic manures on growth and development of Sisoo at nursery stage	Dr. M. B. Tandel	2012
67.	Mr. Vikas Kumar 04-0905-2010	Ecology of some rare and endangered plant spp. of the Dang forest	Dr. B.S. Desai	2012
68.	Mr. Sushil Kumar 04-0903-2010	Influence of de-oiled seedcakes as fertilizers on growth and biomass production of rosewood seedlings at nursery stage	Dr. N. S. Patil	2012
69.	Mr. Sachin Kumar Singh 04-0899-2010	Bio-chemical investigation of eucalyptus for gall tolerance	Dr. D. B. Jadeja	2012
70. #	Mr. Patel Satishkumar Sureshbhai 04-0894-2010	Morphological variations and carbon sequestration potential of various clones of eucalyptus	Dr. N. S. Patil	2012
71.	Mr. Mesariya Bhaveshkumar Devendrabhai - 04-1051-2011	Efficiency of rooting hormones on propagation of different bamboo spp. (*Dendrocalamus strictus* and *Bambusa vulgaris*)	Dr. M. B. Tandel	2013
72.	Mr. Chaudhary Dhavalkumar V. 04-0888-2010	Effect of various auxins on rooting of cuttings in rosewood	Dr. M. B. Tandel	2013
73.	Mr. Panchal Jeegarkumar S. 04-1052-2011	Productivity and carbon sequestration under prevalent agroforestry system in Navsari district	Dr. N. S. Thakur	2013

SN	Name of Student	Research Title	Major Advisor	Year
74.	Rabari Baldevbhai Muljibhai 04-0895-2010	Carbon sequestration by Eucalyptus plantation	Dr. D. B. Jadeja	2013
75.	Mr. Patel Navneet Kumar Maganlal 04-892-2010	Carbon sequestration potential of some important trees in south Gujarat	Dr. M. B. Tandel	2013
76.	Mr. Prajapati Dharamshibhai Hirabahi - 04-1056-2011	Effect of the tree species leaf leachate on germination and seedling growth of some vegetable crops	Dr. M. B. Tandel	2013
77.	Mr. Bhasotiya Harshal Chhaganbhai 04-1311-2012	Influence of seed source variation and potting mixtures on germination of *Ailanthus excelsa*	Dr. M. B. Tandel	2014
78.	Mr. Bhusara Jignesh B. 04-1312-2012	Productivity and carbon sequestration under prevalent Agroforestry systems in the Valsad district	Dr. N. S. Thakur	2014
79.	Mr. Sondarva Ramesh L. 04-1317-2012	Influence of various growing media on growth and vigour of *khaya senegalensis* (African mahogany) in nursery	Dr. V.M. Prajapati	2014
80.	Mr. Mukesh Kumar 04-1314-2012	Screening of Cymbopogon spp. and Ocimum spp. for development of teak based sivi medicinal systems in south Gujarat	Dr. N. S. Thakur	2014
81.	Mr. Modi Jay Sureshkumar 203031004	Molecular and morphological variations in Teak (*Tectona grandis*) clones	Dr. M.B. Tandel	2015
82.	Mr. Dinesh Kumar 2030313003	Studies on effect of leaf leachate of *Melia composita* and *Melia azaderach* on germination, growth and yield of some pulse crops	Dr. N. S. Thakur	2015
83.	Mr. Parmar Avinash Gordhanbhai 2030313005	Studies on effect of leaf leachate of *Melia composita* and *Melia azaderach* on germination, growth and yield of some tuber crops	Dr. N. S. Thakur	2015
84.	Mr. Vasava Miteshkumar Sureshbhai 2030313006	Diagnosis and evaluation on *fusarial* wilt of Garmalo (*Cassia fistula)* in nursery condition	Dr. V.M. Prajapati	2015

SN	Name of Student	Research Title	Major Advisor	Year
85.	Mr. Ahir Balvantkumar Ranabhai - 2030313001	Studies on below ground interaction and carbon sequestration in *Acacia mangium* Willd plantation	Dr. Manmohan J. Dobriyal	2015
86.	Mr. Pritam Choudhury 2030314012	Effect of host plant and biofertilizer on seedling growth performance in *Santalum album* Linn.	Dr. Manmohan J. Dobriyal	2016
87.	Ms Jharna Chetri 2030314007	Performance of *Coleus aromaticus* (Ajma paan) *Centella asiatica* (Brahmi) and *Psoralea corylifoila* (Babchi) growth as an intercrop under different spacing	Dr. V.M. Prajapati	2016
88.	Mr. Gamit Vikaskumar Premjibhai – 2030314006	Soil atmosphere exchange of N_2O and CH_4 in forest floor, grassland, rice field and open field	Dr. V.M. Prajapati	2016
89.	Mr. Patel Sagarkumar Vinubhai - 2030314011	Study of productive potential of turmeric based Agri-silviculture System in South Gujarat condition.	Dr. Dileswar Nayak	2016
90.	Mr. Amlani Moulik Harishbhai 2030314001	Assessment of growth variation and carbon sequestration potential of different species of Bamboo	Dr. M.B. Tandel	2016
91.	Mr. Jilariya Devanand Jeelubhai – 2030314008	Performance of *Aloe vera* Linn. Under *Melia composita* Willd Plantations.	Dr. N. S. Thakur	2016
92.	Mr. Patel Jitendrakumar Nathubhai – 2030314009	Allelopathic effects of *Terminalia arjuna* (Roxb.) Wight & Aon. on *Oryza sativa* L. Var. ONR-2	Dr. Dileswar Nayak	2016
93.	Debiprasad Rout 2030315004	Study of seed mycoflora association with *Dalbergia sissoo* Roxb. and *Dalbergia latifolia* Roxb. in natural and storage condition	Dr. V. M. Prajapati	2017
94.	Gamit Priyanka Babubhai 2030315005	Status of leaf spot diseases of *Dalbergia latifolia* and *Dalbergia sissoo* in forest nurseries of Navsari district.	Dr. V. M. Prajapati	2017

SN	Name of Student	Research Title	Major Advisor	Year
95.	Malek Soufil Sharifmiya 2030315006	Propagation and cultivation of *Coleus aromaticus* Benth. and *Coleus forskohlii* (Pior) Briq. under Sapota- Jatropha based agroforestry system.	Dr. Manmohan J. Dobriyal	2017
96.	Mevada Ramabhai Jepabhai 2030315007	Effect of *Terminalia arjuna* (Roxb.) Wight. & Arn. hosted tassar silkworm excreta and leaf litter on growth and yield of *Oryza sativa*. L.	Dr. D. Nayak	2017
97.	Patel Harpal Shukkarbhai 2030315008	Effect of different pre-sowing treatments and growing conditions on germination of Red senders (*Pterocarpus santalinus* L. f.)	Dr. M.B. Tandel	2017
98.	Sumit Mohanty 2030315014	Evaluation of *Cymbopogon flexuosus* (Nees Ex.Steud) Co. Watson and *Cymbopogon martini* (Roxb.) Wats. for development of *Melia composita* Willd. based silvi medicinal systems.	Dr. N.S. Thakur	2017
99.	Sukhadiya Madhuri Laljibhai 2030316006	Evaluation of nutritive value and drupe pulp of *Melia dubia* Cav. and its feeding effect on Shruti goat (*Capres aegagrus hircus* L.) kids.	Dr. N.S. Thakur	2018
100.	Rashmiparva Maharana 2030316005	Enhancement of Seed Germination and Seedling Vigour in *Gmelina arborea* Roxb.	Dr. Manmohan J Dobriyal	2018
101.	Dholariya Chintan Ashwinbhai 2030316001	Impact of different salinity on growth and physiological performance in *Leucaena leucocephala* Lam.	Dr. L. K. Behera	2018
102.	Odedera Versha Hamirbhai 2030316003	Assessment of different agroforestry land use system using remote sensing and GIS of Navsari district	Dr. Dleswar Nayak	2018
103.	Mr. Govind 2030317003	Effect of integrated nutrient management on seedling growth and biomass of Sandal wood (*Santalum album* L.)	Dr. V.M. Prajapati	2019

SN	Name of Student	Research Title	Major Advisor	Year
104.	Ms. Chaudhary Vrushali Vijay 2030317002	Intercropping of Japanese mint (*Mentha arvenisis* L.*)* under ashoka (*Saraca asoca* L.) in different spatial arrangement	Dr. Manmohan Dobriyal	2019
105.	Mr. Varun Saini 2030317005	Assessment of seedling vigour using organic manure and bio-fertilizer in *Swietenia macrophylla* King.	Dr. L.K. Behera	2019
106.	Mr. Jayeshkumar Baldaniya 2030317001	Performance of different varieties of wheat under *Ailanthus excelsa* (Maharukh) based Agroforestry system	Dr. D. Nayak	2019
107.	Mr. Bhaveshkumar Purohit 2030318007	Influence of *Melia dubia* Cav. Drupe pulp leachates on germination , growth, biomass and yield of *Capsicum annuum* L. and *Vigna radiata* L.	Dr. N.S. Thakur	2020
108.	Mr. Viragkumar Chaudhari 2030318001	Effect of Biopriming on seed germination and seedling vigour of waras (*Heterophragma quasriloculare* Roxb.*)*	V. M. Prajapati	2020
109.	Mr. Yogeshkumar D. Patel 2030317004	Effect of growing media and integrated nutrient management on seed germination and seedling growth of red sanders (*Pterocarpus santalinus* Linn. f.)	Dr. M.B. Tandel	2020
110.	Ms. Mehfuza M. Patel 2030318003	Influence of various levels of growth hormones on rooting of cutting and biofertilizer on growth of rooted cuttings of Casuarina (*Casuarina equisetifolia* L.)	Dr. M.B. Tandel	2020
111.	Ms. Chauhan Poonamkumari Chandrajit - 2030318002	Influence of various different biofertiliser on seedling vigour in kadam (*Anthocephalus cadamba* Roxb.)	Dr. L.K. Behera	2020
112.	Ms. Rudani Kejal V. 2030319008	Performance of spacings and varieties of drilled Rice (*Oryza sativa* L.) under Arduso (*Ailanthus excelsa* Roxb.) based agroforestry system	Dr. S. M. Patel	2021

SN	Name of Student	Research Title	Major Advisor	Year
113.	Mr. Manojkumar S. 2030319003	Stands structure, germination and seedling vigour in *Dalbergia lanceolaria* L. f.	Dr. L. K. Behera	2021
114.	Mr. Prajapati Jigneshkumar Pravin bhai - 2030318006	Evaluation of germination media and organic manures for production of quality seedlings *Soyamida fabrifuga* Roxb.	Dr. L.K. Beherea	2021
115.	Ramani Darshana Jayantibhai - 2030320006	Enhancement of seedling growth and vigour using biofertilisers in Anjan (*Hardwickia binata* Roxb.)	Dr. S.M. Patel	2022
116.	Patel Twinkal Sanjaybhai 2030320005	Effect of salinity levels of irrigation water on growth of *Bambusa* Species in nursery	Dr. Jayesh Pathak	2022
117.	Tarh Aya 2030320010	Influence of different Biofertilizers on seedling Growth and Vigour of Indian Redwood (*Soymida febrifuga* Roxb.)	Dr. L. K. Behera	2022
118.	Mr. Subhaprada Behera 2030320008	Performance of different varieties of Brinjal (*Solanum melongena* L.) under Gamhar (*Gmelina arborea* Roxb.) based Agroforestry System	Dr. M. B. Tandel	2022
119.	Ms. Rathod Tanvikumari Nileshbhai - 2030320007	Vegetative propagation of Indian tulip tree (*Thespesia populnea* L.) Through Cuttings	Dr. M. K. Desai	2022
120.	Chauhan Jahanvi Dilipbhai 2030321003	Effect of leaf leachate and leaf litter of different tree species on germination, early growth and development of Paddy (*Oryza sativa* L.)	Dr. M. K. Desai	2023
119.	Bharadva Mansi Umeshbhai 2030321001	Effect of hormones and cutting types on rooting and establishment of Gliricidia (*Gliricidia sepium* Jecq.)	Dr. V. M. Prajapati	2023
120.	Thumbar Payalben Dineshbhai - 2030321005	Influence of pre-sowing treatments on seed germination and seedling vigour in Kamala (*Mallotus phillippinensis* (Lam.) Mull. Arg.)	Dr. L. K. Behera	2023

SN	Name of Student	Research Title	Major Advisor	Year
121.	Vaghasiya Sanjana Jayasukhbhai - 2030321006	Status of Agroforestry Systems in South Saurashtra	Dr. M. B. Tandel	2023
122.	Agravat Shivaniben 2030322001	Development of Macro-proliferation in *Bamusa* spp. using rooting hormance	Dr. J. G. Pathak	2024
123.	Patel Bhargaviben Maheshbhai - 2030322003	Assesment of Seedling growth and vigour using organic manures in Indian trumpet flower [Oroxylum indicum (L.) Kurz]	Dr. M. R. Parmar	2024
124.	Prajapati Mahesh Rameshbhai - 2030322005	Evaluation of *Sterculia foetida* L. seed, oil and cake nutritive properties among different landscapes	Dr. N. S. Thakur	2024
125.	Doly Maibam 2030322009	Effect of ethylene and rooting hormone on rooting of branch cutting of *Bambusa vulgaris* Schrad ex. J. C. Wendl	Dr. J. G. Pathak	2024
126.	Geetha A N 2030322010	Effect of pre-sowing seed treatments and growing media on germination and seedling growth of Chironji (*Buchanania cochinchinensis* (Lour.) M. R. Almedia)	Dr. M. K. Desai	2024
127.	Thorat Akash Dilip 2030322013	Evaluation of germination media and biofertilizers for production of quality seedlings of Kamala (*Mallotus phillippinensis* (Lam.) Mull. Arg.)	Dr. L. K. Behera	2024

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Ph. D. FORESTRY (AGROFORESTRY & ECOLOGY / AGROFORESTRY/ SAF)

SN	Name of Student	Research Title	Major Advisor	Year
1.	Mr. Minal B Tandel 04-0251-2006	Molecular and morphological variation among different accession of *Jatropha curcas* L.	Dr. M. U. Kukadia	2009
2.	Mr. Parekh Dhavalkumar Jayantilal 04-0354-2007	Effect of different time and intensities of pruning on growth and yield of *Jatropha curcas* L.	Dr. D. B. Jadeja	2011
3.	Mr. Sanjay M. Ahir 04-0348-2007	Feasibility of inter cropping of different pulse crop under *Jatropha curcus* L.	Dr. N. S. Patil	2010
4.	Mr. Prajapati Vijay Manilal 04-0356-2007	Morphological and biochemical variations of teak (*Tectona grandis* L.) clones in relation to resistance against leaf defoliator (*Hyblaea puera* Cramer) and skeletonizer (*Eutectona machaeralis* Walker).	Dr. M. U. Kukadia	2011
5.	Mr. Anil Kumar 04-0425-2008	Effect of Irrigation and Fertiliser on growth and Yield of Jatropha (*Jatropha curcus*) under south Gujarat condition	Dr. N.S. Patil	2012
6.	Mr. Dileswar Nayak 04-0350-2007	Induced variability in *Jatropha curcus* by gamma rays	Dr. N. S. Patil	2012
7.	Ms. Vishnu Kanwar Solanki 04-0906-2010	Silvicultural, Horticultural and Medicinal crops in three tier agroforestry system	Dr. D. B. Jadeja	2014
8.	Ms. Shedage Swati Mahipati 04-0900-2010	Effect of microsymbionts on forest tree seedlings under different moisture regimes and salinity levels	Dr. N. S. Patil	2014
9.	Mr. Shailendra Bhalawe 04-1057-2011	Carbon sequestration potential of different land use systems in South Gujarat condition	Dr. D. B. Jadeja	2015

SN	Name of Student	Research Title	Major Advisor	Year
10.	Mr. Gayakvad Pareshbhai Ganeshbhai - 04-1050-2011	Carbon sequestration potential of different land use systems in Dangs district	Dr. D. B. Jadeja	2015
11.	Mr. Laxmikanta Behera 04-1059-2011	Clonal variation in physical, anatomical and chemical properties of wood in *Eucalyptus*	Dr. D. B. Jadeja	2016
12.	Mr. Kazi Abduladil Abdulhami 02-1319- 2012	Potentiality of tuber intercrops under naturally occurring *Palmyra palm* in South Gujarat condition	Dr. D. B. Jadeja	2016
13.	Mr. Sashi Bhushan Saran Pandey 04-1316-2012	Intercropping of Ginger (*Zingiber officinale* L.) and Turmeric (*Curcuma longa* L.) under Sapota- Jatropha based agroforestry system in South Gujarat	Dr. D. B. Jadeja	2016
14.	Mr. Abhishek A. Mehta 04-1060-2011	Evaluation of Safed musali (*Chlorophytum borivilianum)* Sant & Fernand. Germplasm for growth, yield, saponin content and suitability in agroforestry system.	Dr. D. B. Jadeja	2016
15.	Mr. Manas Ranjan Nayak 1030313002	Performance of Eucalyptus clone in relation to sodicity in nursery stage	Dr. D. B. Jadeja	2016
16.	Nongmaithem Raju Singh 1030314003	Crop diversity, productivity and soil nutrient dynamics of dominant agroforestry systems of Navsari district, Gujarat.	Dr. A. Arunachalam	2017
17.	Jayesh Pathak 04-1318- 2012	Macro and micro propagation of few long internodes species.	Dr. D. B. Jadeja	2017
18.	Patel Sandipkumar Mukundlal 1030313003	Performance of cucuritaceous vegetables crops under Teak (*Tectona grandis* L.f.) based silvihorticultural system in south Gujarat region.	Dr. M.B. Tandel	2018

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19.	Sondarva Ramesh L. 1030314005	Integrtaed nutrient mangment of Brinjal (*Solanum melogena* L.) under Teak (*Tectona grandis* L.f.) based silvihorticultural system in south Gujarat region.	Dr. M.B. Tandel	2018
20.	Bhusara Jigneshkumar Balubhai 1030314001	Intercropping of Okra and green gram with different spacing of *Melia composita* plantation.	Dr. Manmohan J. Dobriyal	2018
21.	Rajveer Singh Chauhan 04-1320-2012	Selection of candidate plus trees (CPTs) and their evaluation for seed traits, germination and seedling vigour in *Melia dubia* Cav. in south Gujarat	Dr. D. B. Jadeja	2018
22.	Desai Maheshkumar Karamsibhai 1030313001	Intercropping of medicinal crops Castor and Babchi under Sapota-Jatropha based Horti-Silvi system	Dr. Manmohan J. Dobriyal	2018
23.	Mr. Dhavalkumar R. Prajapati 1030316001	Development of *Melia dubia* Cav. Hybrid Napier (*Pennisetum purpureum* X *P. americanum*) / Sorghum sudan grass (*Sorghum bicolor* X *Sorghum bicolor* Var. Sudanese) Based silvi-pasture systems.	Dr. N.S. Thakur	2020
24.	Mr. Harshavardhan K. Deshmukh 1030317001	Assessment of management of Agroforestry systems adopted by the farmers in South Gujarat.	Dr. M.B. Tandel	2020
25.	Mr. Ramabhai J. Mevada 1030317002	Integrated Nitrogen Management on growth, yield and quality of Okara (*Abelmoschus esculentus* L.) under teak (*Tectona grandis* L. f.) based Agroforestry system .	Dr. M.B. Tandel	2020
26.	Mr. Parmar Mukeshbhai Rameshbhai - 1030314004	Ecological studies on selected horticulture-based agroforestry systems in South Gujarat	Dr. A. Arunachalam	2021

SN	Name of Student	Research Title	Major Advisor	Year
27.	David Camus D 1030319001	Assessment of *Melia dubia* Cav. progenies of some candidate plus trees for Salinity stress	Dr. N. S. Thakur	2022
28.	Govind 1030319002	Performance of Cluster Bean (*Cyamopsis tetragonoloba* (L.) Taub.) under Teak (*Tectona grandis* L. f.) based Agroforestry system in response to Micronutrient application	Dr. V. M. Prajapati	2022
29.	Malek Soufil Sharifmiya 1030319003	Nutritive quality assessment of *Melia dubia* Cav. Leaf foddr from different provenances of South Gujarat	Dr. N. S. Thakur	2022
30.	Patel Mahfuza Mohammadali 1030320002	Effect of Various Sapacing and foliar spray of Novel on performance of Cowpea (*Vigna unguiculata* L.) under Mango- based Agroforestry System	Dr. M. B. Tandel	2023
31.	Vishal Balwantrao Shambharkar 1030320003	Morphological, Physico-Anatomical and Molecular Characterization of *Pterocarpus marsupium* Roxb. and *P. santalinus* Linn.	Dr. M. B. Tandel	2023
32.	Amlani Maulik Harishbhai 1030320001	Impact of INM on growth, yield and quality of Tomato (*Solanum lycopersicum* L.) under Sapota (*Manilkara zapota* L. P. ROYEN) based Agroforestry system	Dr. V. M. Prajapati	2024