

Educational outreach on sustainable agricultural land management

SI No.	Initiative	Description	Benefits/Outcomes	Visual/Practical Aspect
1.	Plantation Drive	Thousands of trees planted on and around campus: mango (1,600), teak (300), coconut, curry leaf trees, ornamental plants, roadside beautification.	Enhances biodiversity, ecological resilience, natural fences, windbreaks, microclimate improvement, and aesthetics.	Landscape with diverse tree species.
2.	Cover Cropping	Use of crop residue mulching and leguminous cover crops in Organic Research Farm and Protected Horticulture units.	Improves soil structure, conserves moisture, suppresses weeds, and enriches soil health.	Mulching and legume cover cropping photos.
3.	Organic Farming	Focus on composting, green manure, crop rotation, biological pest control, azolla, vermicomposting.	Promotes healthy ecosystems, soil fertility, pest resistance, and erosion prevention without chemicals.	Organic farming unit visuals.
4.	Dragon Fruit Cultivation	One hectare dragon fruit plantation on barren hilly land with drip irrigation and drought-resilient techniques; training for local farmers.	Utilizes underutilized land, improves soil health, provides economic benefits, and supports local farmers.	Dragon fruit plantation and harvest images.
5.	Crop Production (RAWE Program)	Hands-on student training in planting, weeding, harvesting, pest management, soil conservation (intercropping, terrace farming, crop rotation).	Enhances practical knowledge, sustainable practices, soil conservation, and improved productivity.	Intercropping and crop production glimpses.
6.	Vermicompost Use & Sale	Production and application of vermicompost to improve soil fertility; sales generate revenue.	Enriches soil, promotes organic farming, and creates income streams.	Vermicompost application images.
7.	Black Soldier Fly Unit	Converts food waste into larvae (fish feed) and frass (fertilizer), supporting circular waste management and nutrient recycling.	Reduces waste, produces sustainable protein, enriches soil, and supports crop growth.	Black soldier fly production visuals.
8.	Mango and Napier Grass Cultivation	Agroforestry model integrating mango orchards with Napier grass for fodder, soil erosion control, and biodiversity enhancement.	Increases land productivity, soil conservation, drought resistance, and biodiversity.	Fodder cropping alongside mango trees images.
9.	Sprinkler and Drip Irrigation	Modern irrigation techniques in polyhouses and organic units deliver water efficiently to roots.	Water conservation, optimized crop yield, supports protected cultivation and high-value crops.	Sprinkler and drip irrigation photos.

10.	Nursery (Commercial Horticulture)	2-acre nursery producing 10,000+ seedlings/month of over 200 plant species for landscaping, agroforestry, and training.	Supports campus greenery, practical student training, revenue generation (₹5,000/month).	Nursery and plantlet production glimpses.
11.	Honey Boxes Installation	Sustainable beekeeping with training and community involvement, honey box installations, and hive management demos.	Enhances pollination, biodiversity, community education, and honey production.	Honey bee box and apiculture unit images.
12.	Live Fencing / Hedgerow Cropping	Natural fencing using coconut, bamboo, mango, eucalyptus in alley cropping systems for boundary definition and soil conservation.	Improves biodiversity, soil health, farm boundary delineation.	Live fencing and plot boundary visuals.
13.	Stevia Cultivation in Mango Orchard	Intercropping stevia (natural sweetener) under mango orchards with training on resource-efficient farming.	High-value crop diversification, sustainable soil management, integrated farming.	Stevia under mango orchard photos.
14.1	Orchidarium	Propagation and acclimatization of 550 orchids across 5 species, distribution to farmers, integrated with nursery.	Supports biodiversity, entrepreneurship, agroclimatic adaptation.	Orchidarium and orchid plant images.
15.	Pond Ecosystem	Ponds recharge groundwater, maintain soil moisture, reduce erosion, and stabilize the water table.	Soil conservation, water management, ecosystem services.	Pond ecosystem images.
16.	Pineapple, Guava, Coffee Orchards	Cultivation of these orchard crops integrated into curriculum and land restoration efforts.	Promotes biodiversity, curriculum relevance, land restoration, and economic crops.	Orchard images (pineapple, guava, coffee).
17.	Vanilla Cultivation	Advanced vanilla dome unit achieving 300% yield increase, disease reduction, faster cycles with organic certification and modular adaptability.	High-value crop diversification, improved productivity, disease management, adaptable system for tropical regions.	Vanilla dome and cultivation photos.



Figure 1: Photos of Plantation drive



Figure 2: shows mulching and leguminous crops used as cover cropping



Figure 3: Glimpse of Organic research farm unit in Campus



Figure 4: Glimpses of intercropping in the campus



Figure 5: Use of vermicompost in Farm and selling of it



Figure 6: Glimpses of Black soldier fly produced in the campus



Figure 7: Glimpses of fodder cropping along with mango trees



Figure 8: Glimpses of sprinkler and drip irrigation in Campus



Figure 12: Glimpses of Stevia under mango orchard



Figure 13: Glimpses of Orchidarium



Figure 14: Pond ecosystem





Figure 15: Glimpses of different orchard in the campus



Figure 16: Glimpses of vanilla unit