6.3.5 WATER-CONSCIOUS PLANTING

6.3.5 Water-conscious planting

The Institution's green campus initiatives takes a comprehensive approach to sustainability, focussing on a variety of issues such as lowering carbon emissions, encouraging alternate modes of transportation, decreasing waste, and improving the natural environment. The Institution has implemented a number of green projects to promote a sustainable environment. In order to help create an environmentally friendly campus, students and staff actively participate in a variety of events, such as Swachh Bharat Abhiyan, Environment Day celebrations, tree-planting events, and many more. The institution has a strong commitment to preserving an environmentally friendly environment.

The campus estimates its carbon footprint on a regular basis and conducts inventory analysis to assess emissions. This proactive strategy helps to develop efforts that aim to reduce prospective carbon emissions and promote sustainability. The campus is continually attempting to increase its green cover by planting appropriate species that can offset carbon emissions from the college community. The institution maintains a beautiful green environment, with vegetation covering 43% of the entire campus surface. The campus' green cover acts as both a picturesque aspect and a source of pollution-free surroundings for the college community, with features including coconut farms, grass, trees, hedges, and potted plants. The buildings on campus have been constructed to maximise natural ventilation and light.

The institution's green campus effort embodies a comprehensive approach to sustainability, including measures to cut carbon emissions, promote alternate modes of transportation, reduce waste, and improve the natural environment. Through collaborative works, the institution is proud to contribute to the development of a healthier, more resilient, and ecologically conscious campus for everybody.

Details of Green cover of campus

Description	Land Area in Sq.m
Coconut tree land area	11700.00
Lawn	30217.42
Trees	13818.18
Hedges	16799.97
Potted Plants	11.33
Total Green Area	72546.89
Percentage of Green Area	43.09 %

Green cover near vehicle parking area

Green cover at the campus entrance

Green cover along the pathway

List of Plant Species grown inside SKCET Campus

S.NO.	SPECIES NAME	LOCATION
1.	**Peltophorum***	Krishna Square Back Side, Krishna Temple
2.	**Spathodea* (African Tulip Tree)**	Convention Centre, Bike Parking
3.	**May flower***	Ground
4.	**Plumeria***	Admin, C5, C4 blocks
5.	**Portia***	Admin, C5, C4 blocks
6.	**Areca Palm***	MCA Back Side, Girls Bike Parking Front Side
7.	**Kendriya palm***	Main Gate, C5 Block, STP Plant Side
8.	**Bamboo***	Admin Front, MBA, Krishna Temple, CSE and EEE Centre side
9.	**Ficus tree***	Admin, Library, Convention Centre
10.	**Lagerstroemia***	Admin
11.	**Begonia tree***	Mech Back Side, C3 and MCA Centre Side, Bike Parking (Pink flower)

12.	**Neem***	Admin Front
13.	**Millingtonia hortensis***	Admin to STP Road Sides
14.	Duranta gold	Convention Centre, C5 Block
15.	**Cycas***	EEE, ECE, CSE, C2 Blocks
16.	**Clerodendrum***	All Lawn Cover areas
17.	Shoeblack plant (Hibiscus rosa-sinensis)	C5 block front side, Krishna Temple, MCA Block Back Side
18.	**Nerium Oleander***	Two Wheeler Parking Check Post, Mechanical block
19.	**Spider lily*** (Lycoris radiata)	Admin block, Axis Bank, Krishna Temple
20.	**Madalia***	Admin block, Ground Compond Wall Lawn Sides
21.	Ficus plant	Convention Centre, Admin Right side
22.	Banta plant	Convention Centre, Library
23.	Ixora plant	Admin Krishna Temple
24.	**Bougainvillea***	Bike Parking, Road Two Sides
25.	**Lantana tree***	All Lawns Area
26.	**Golden neevium***	Krishna Around Sides
27.	**Fountain grass ***	Admin Front Areas
28.	**Allamanda cathartica***	Convention Centre, Library
29.	**Zephyranthes Lily***	Krishna Square Side, Bike Parking
30.	**Ropash Palm***	Bank, Centre Main Gate Front Side, Krishna temple
31.	**Korean grass***	All Lawns Area
32.	Shade grass	CSE, ECE, EEE, and Basic Science Blocks Centre Areas
33.	**Bermuda grass***	Convention Centre, Library
34.	Jatropha	Admin Back Side Steps Sides

35.	**Poovarasan Tree***	Convention Centre and Admin Road Sides, Ground Front Sides
36.	**Savudal Tree***	Library Opposite and Krishna Square to Admin Way Right Side
37	**Tamarind Tree***	Near Boys Hostel

*Drought tolerant once established

In SKCET, drought-tolerant plant species and native trees such as neem, tamarind etc. which have minimal water requirement are preferred, particularly for landscaping purposes.

● Agave americana, Agave lurida, Agave hijau, Cycas revoluta, Cycas circinalis, Euphorbia lactea, Euphorbia cristata, Euphorbia milii, Euphorbia tithymaloides, Opuntia sinosa are grown in the Institution.

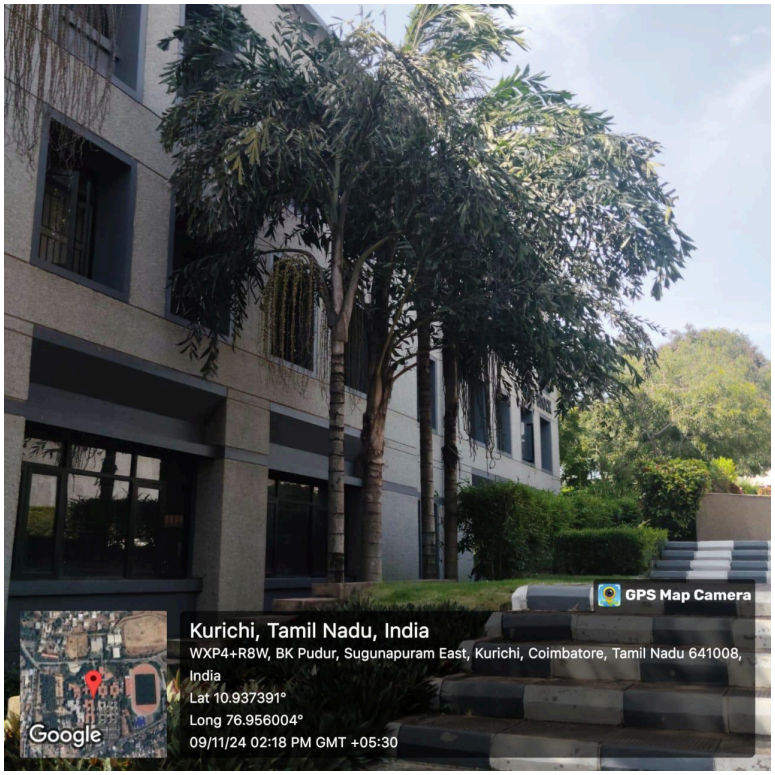
● Bamboo plants effective for conserving water due to their ability in keeping water for a long period and maintain underground water flow is also grown in the Institution. It also gives contribution to natural system such as oil erosion control, water conservation, land rehabilitation, and carbon sequestration.

● Different varieties of Bougainvillea glabra, Bougainvillea campanulata, Bougainvillea spectabilis, are planted. Being hardy species, they get easily acclimatized with minimal water requirement.

● Phoenix sp. (palm), known for its existence in extreme environments, is planted in the campus.

Various tree species inside the campus

Sprinkler irrigation for water conservation



Poly house inside the campus

A polyhouse of 500 sq.m area, functions inside the campus from August 2022. The

polyhouse farming is based on IoT for cultivating plants that are grown under controlled ambient parameters. The polyhouse farming is an upcoming agricultural concept applied for improving the yield of the fruits and vegetable crops like tomato, bitter grout, chilly, papaya and onions and also helps in water conservation.

The enclosed environment of a polyhouse reduces water loss through evaporation, allowing farmers to water crops precisely and efficiently.

This type of farming improves the crop yield and it is also promoted by the Government of India through subsidies. The yield from the polyhouse inside the campus is utilized for boys hostel kitchen. In every phase around 75 kg of organic chillies is harvested from the poly house.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Several plant species inside the campus