

ST. JAMES COLLEGE OF PHARMACEUTICAL SCIENCES

GREEN CAMPUS INITIATIVES

This includes:

Waste management

Rain water Harvesting

Green practices

Landscaping with trees and Plants

WASTE MANAGEMENT

St. James College of Pharmaceutical Sciences promotes the reduced usage of waste, possible reuse through recycling. It also encompasses reducing the need to dispose of waste as much as possible, and also ensuring proper disposal of whatever waste is generated by having a specified procedure for doing so. Thus, ensuring a clean and healthy campus.

Following are the methods adopted for wastemanagement.

- Biogas Plant
- Incinerator
- Sewage treatment Plant

Solid waste management:

There are separate dust bins for the bio degradable and non-biodegradablewastewhich are placed at various locations on campus. For non-biodegradable 'red colour' waste bin for glass pieces, Blue colour for paper waste and green colour for biodegradable waste.

Biogas Plant

Food and vegetable wastes are collected from the hostel mess and this waste is used to generate fuel gas using Biogas-Plant erected in the campus. The biogas plant in the campus occupies an area of 10 M² and biogas generator consists of large concrete tank where the anaerobic digestion of waste material takes place to produce biogas which is used as fuel for cooking in the hostel mess. The solid residue is used as organic compost for maintaining garden of college campus.



Figure: Biogas Plant

Solid waste like sanitary napkins from ladies' rest rooms are incinerated using dedicated incinerator present in the ladies hostel. Paper waste like old newspapers, examination papers, record books etc. are sold on timely basis to the local vendors. Hence piling up of such waste is not allowed to maintain hygienic conditions.

Biomedical waste Management-Very small amount of biomedical waste generated in the pharmacology laboratory of college is collected carefully and incinerated using the incinerator.



Figure: Incinerator

Waste recycling system

Waste water from Laboratories, hostel mess wash basin and kitchen is recycled efficiently to prevent environmental pollution while conserving natural resource. St. James College of Pharmaceutical Sciences has constructed a water recycling system i.e., Sewage treatment plant. The treated water is utilized for regular maintenance of landscaping throughout the college campus and for irrigation of herbal gardens and plantations in the campus.

The Sewage water from entire college and hostel buildings are received through underground pipe lines and passed through grid chamber, bar screen chamber and degreasing chamber. In grid chamber dense materials like sand are removed. In the bar screen chamber floating material like leaves are separated. Then it is passed through degreasing tank where the floating greasy materials are scrubbed away from the degreasing tank. After that the slurry is transferred to collection tank having a capacity of 50,000 L. From the collection tank it is transferred to aeration tank containing bioreactor, then to sludge settling tank, then to carbon and sand filters. After this process, good quality treated water is produced, which is passed to a storage tank. Then this treated water is used for gardening.



Figure: Sewage water treatment plant

RAIN WATER HARVESTING

The college installed of several barrels (open water tanks) in the campus for collecting the rainwater. The rainwater barrel harvesting method is one of the cheapest ways of collecting rainwater.

GREEN PRACTICES

All the college buses and vehicles used by the college members are have PUC certification, which is renewed regularly.

Plastic free campus

College provides and encourages use of bags with college logo and discourages use of plastic bags. Display Boards displaying 'USE OF PLASTIC IS RESTRICTED' are placed in different area of the college.

Pedestrian friendly Pathways



Figure: Pedestrian friendly pathway



Figure: Restricted entry of Automobiles

Landscaping with trees and Plants

St. James college of Pharmaceutical Science is situated in lush green campus. The college consist of large herbal garden. St. The garden is divided into different areas consisting of Nutritional plants, Cosmetic plants, 'Nakshathravana' (Star forest), Aquatic plants and Ornamental plants. The herbal garden has the daily facilities with cleaning, watering system.



Nature club -Poonchola

In connection with Environmental activities our college, St James College of Pharmaceutical Sciences, Chalakudy started a nature club with the name POONCHOLA in the year 2009. The 'Poonchola' club is involved in the activities like planting of new species, cultivation of vegetables, organic farming, cleaning the college campus etc. This club also inculcate the values in students like protecting the nature and mother earth from naturas hazards and also making the environment green.