



ESTD. 2001

**PRATHYUSHA ENGINEERING COLLEGE**  
Poonamallee- Tiruvallur Road, Aranvayal Kuppam Village,  
Aranvayal Post, Tiruvallur Taluk- 602025.

**POLICY DOCUMENT**  
**ON**  
**GREEN CAMPUS**



ESTD. 2001

# PRATHYUSHA ENGINEERING COLLEGE

Approved by AICTE & Affiliated to Anna University, NAAC Accredited "A" Grade, National Board of Accreditation (NBA) Institution

## POLICY DOCUMENT ON THE GREEN CAMPUS

PEC has implemented green-friendly practices to manage the available resources and has taken steps in environmental conservation and protection. As a part of such practice, environmental audit (Green Audit) is conducted to evaluate the actual scenario on the campus. A survey on trees and other greeneries within the campus was done by the external committee. A well-planned and aesthetically-designed 45-acre eco-friendly campus with over 5,00,000 Sq. ft. of built-in area. PEC has state-of-the-art infrastructure, creating an environment for progressive learning and development. 40 percent of campus is covered by herbs, shrubs and trees. There are more than 700 plant species and 800 trees were audited. Management is focusing on maintaining a green campus and improving it by appointing gardeners in the campus.

### **Estimated percentage of total green area:**

Lawn	:	3182 Sq.Mtrs
Tree Cover	:	9000 Sq. mtrs
Shrubs and Hedges	:	2505 Sq.mtrs
Potted Plants	:	1500 Sq.mtrs

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### **Waste Audit:**

The members of Green Audit Committee have done a detailed study of solid, liquid and e-waste generation in the campus.

### **Solid Waste Management:**

With smart initiatives like Go Green Campus Model, Waste Management is helping our college, to achieve a higher level of environmental performance. All the waste from the college, canteen and hostel is collected and segregated into wet, dry and plastic waste.

Biodegradable materials such as Food waste from college hostel and canteen are converted into manure in compost pits which are used as an organic fertilizer for the garden.

Non-biodegradable materials such as paper and plastic waste are segregated and resold by the college.

### **Liquid Waste Management:**

The audit committee studied the Water conservation and prevention of water wastage in the campus. The College is contemplating installing the water harvesting. All overflow of water is

avoided by an automatic control of valves. The water used for bathing and washing have been collected and recycled to be used for gardening.

#### **Sewage Treatment Plant Working Principle in PEC.**

The sewage water from entire college and hostel is received through the underground pipe lines.

Kitchen waste water is passed through the pipes.

Then the sewage is transferred to collection tank and again pumping to aeration tank.

The above treated water is passed through Final treatment tank.

After the treatment, the sludge it is sent to composting pits through leaves barrio filter.

The Compost is used as natural organic manure for garden.

Then the water is flowing into the final tank.

The filtered water is then collected in a sump and the water is pumped to the entire college garden through overhead tank and sprinkles.

This makes the campus green in a very conservative manner. 2,20,000 litres of sewage is treated per day calculated on the basis of number of students and staff working in the campus.

#### **Characteristics of Treated Water**

Parameters	Raw Sewage	Treated Sewage
pH	6.5 -7.5`	6.5 -7.5
BOD	300	LESS THAN 20 PPM
COD	900`	LESS THAN 100 PPM
HARDNESS	1600`	LESS THAN 500 PPM

#### **E – waste Management :**

The college has evolved a practice of disposing off the obsolete electronic gadgets through external agency. The non-working computer spare parts like mother board, monitor, Keyboard. Mouse and other non-working equipment are safely disposed outside. Waste compact discs and unused electrical and electronic components, batteries, micro chips are used by students for their project. The cartridge of laser printers is refilled outside the college campus. UPS Batteries are recharged / repaired / exchanged by the suppliers.

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## **Green Practices in PEC Campus**

### **Bicycles :**

PEC students and staffs who are staying in nearby college are using bicycle for transportation for reducing both pollution and fuel usage.

### **Pedestrian Friendly Roads:**

Pedestrian Friendly roads in PEC is enabling pedestrians and cyclists to travel safely and freely in the campus.

### **Plastic free campus:**

PEC is a plastic free campus. PEC has organized programs to create awareness on harmful effects of plastic free zone. Many Quotes and Captions are posted inside the college campus to promote awareness on Ban on Plastics.

### **Restricted entry of automobiles :**

The parking lots are purposely located near the entrances and the vehicles are not allowed beyond the parking lots. The staff and the students need to walk from one block to another. Barriers are kept in the entrance to avoid the entry of automobiles inside the campus

### **Battery powered vehicles**

Battery powered vehicles are designed by our students for the consumption of fuels. It is very cost effective and can be used in every possible aspects. It can be operate very easily and can be run by using renewable energy sources.

### **Landscaping with trees and plants:**

College has implemented green-friendly practices to manage the available resources and has taken steps in environmental conservation and protection.

Carbon dioxide neutrality is maintained on the campus by planting different varieties of trees and plants. The green campus concept offers PEC to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind.

### **Paperless office:**

The college gives emphasis on paperless office to save carbon emission in printers. The college has introduced the process of automation of administration in a planned and phased manner. The



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procurement of stationery has sharply declined over a period of time with the introduction of automation. The focus areas of the institution in reaching the goals connected with paperless office are:

**Online application process :**

Online fee payment

Computer-based course selection

Online communication with staff and students

Student's continuous internal assessment publication through intranet

Ruled answer sheets for written examinations to reduce the paper consumption

Circulars and notices for major events and competitions in the college sent through online mode.

Green landscaping with trees and plants: Carbon dioxide neutrality is maintained on the campus by planting different varieties of trees and plants. The green campus concept offers PEC to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind.

**Major Green Campus Initiatives**

Tree Plantation is done every year through NSS.

Recycled water is utilized for maintaining green campus.

Rain water harvesting and solid waste management.

The college has nurtured number of trees of different variety.



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