

PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : www.psnec.ac.in Email : principal@psnec.ac.in

☎ 04634-279078, 279079 ☎ Fax : 04634-279078



7.1.3-3 CLEAN AND GREEN CAMPUS INITIATIVES

INTRODUCTION

A Green Campus is a place where environmental-friendly practices and education combine to promote sustainable and eco-friendly practices in the campus. The green campus concept offers an institution the opportunity 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. In PSNEC, we practice and maintain the following criteria and policies to make it a pollution free, energy saving green campus.

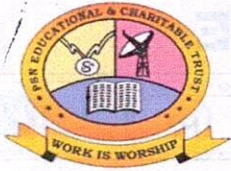
Major Green campus Initiatives in PSNEC campus

- Electric powered vehicle for campus ride
- Rain water Harvesting
- Institute community Garden
- Recycling bin for e-waste
- Use of LED
- Digital Library/ e-learning centre
- Restricted entry of vehicles
- Restricted Parking
- Usage of bicycles and public transport
- Pedestrian friendly Road
- Paperless office
- Plastic free campus

GREEN CAMPUS POLICY

1. Restricted entry of vehicles

- All the vehicles of college staff/ faculty members should be getting the emission certification before entering the vehicle in college campus.
- The college encourages the employees and students to frequently use public transport, bicycles, etc. to limit the emissions.



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2. Use of Bicycle/ battery powered vehicles

- College uses the Battery-powered vehicles for in- house transport.
- All electricity use within a new building space maximizes the use of renewable energy.

2. Pedestrian-friendly pathways

- PSNEC campus follows the Pedestrian-friendly pathways in all the buildings.
- Pedestrian-friendly pathways are properly marked with suitable logo/sign.

3. Ban on use of Plastic

- The college continuously committed to work towards plastic-free campus.
- In the PSNEC campus there is complete ban on single-use plastics in class room, labs canteens in the institution's premises and hostels.

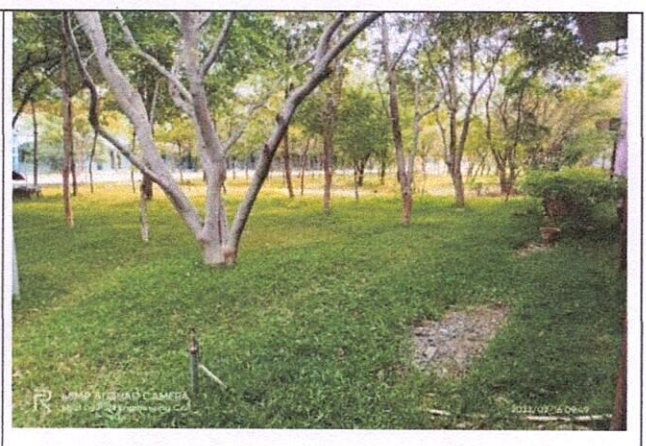
4. Landscaping with trees and plants

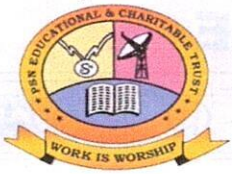
- As per the green practices in the campus PSNEC is moving in the direction of a Green Institution in tirunelveli planting more trees within and outside the campus.

LANDSCAPING WITH TREES AND PLANTS

- Medication plants and more fruit plants and trees have been planted to clean the atmosphere. Landscaping of the college is worth seeing and reflects aesthetic sense.

The institute has a canopy of trees and plants to make the environment pollution free to safeguard the health of all the inmates. The lawns and the trees provide shade and beautiful ambience. Utmost care is taken to develop and maintain green landscaping by trained gardeners and supervisor. The construction, maintenance and beautification committee constituted in the college looks after the development and maintenance of the greenery in the campus.





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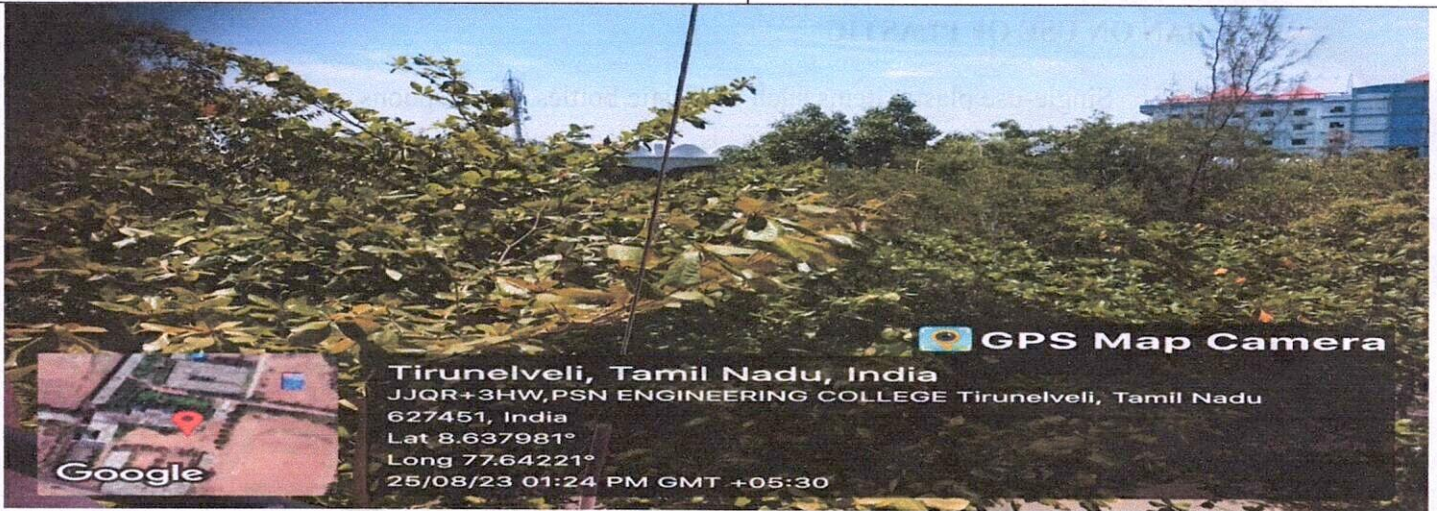
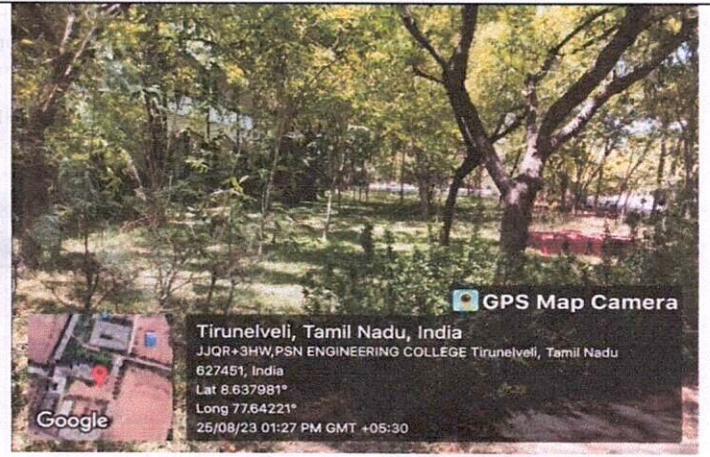
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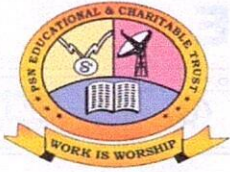
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Our College Green Campus



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PEDESTRIAN FRIENDLY PATHWAYS

Vehicle parking space is provided at the main entrance of the college campus. As the campus is vehicle free with some exceptions, students and staff experience comfort walking through the pedestrian friendly pathways. The internal roads are lined with trees and solar lights and they are properly maintained by the campus maintenance committee.



BAN ON USE OF PLASTIC

Single-use plastic items such as plastic bottles, bags, spoons, straws and cups are banned completely and awareness is created among staff and students through orientation and display boards in the premises. To restrict the use of plastic, measures have been taken to replace plastic tea cups and glasses with steel glasses in the canteen. The staff and students are informed to use steel or copper water Bottles instead of plastic bottles.



Dustbins for waste segregation

RESTRICTED ENTRY OF AUTOMOBILES

The college operates a fleet of 25 buses covering each corner of Guntur to facilitate the students and staff. The institute encourages the staff and students to use the college transport instead of their own vehicles for safety, security, fuel conservation and to reduce environmental pollution. The college buses are checked for pollution by the authorized agency. The vehicles owned by faculty or students with pollution check stickers are permitted into the campus. Random checks are made to check the validation



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and periodicity of this certificate. For two wheelers or four wheelers security measures are mandatory.

DIGITAL LIBRARY/ E-LEARNING CENTRE

PSN Engineering College is equipped with a digital library. The user can get his/her information on his own computer screen by using the Internet. Actually it is a network of multimedia system, which provides fingertip access. A brief summary of e learning resources is listed below:-

1. No physical boundary:

The user of a digital library need not to go to the library physically, people from all over the world could gain access to the same information, as long as an Internet connection is available.

2. Round the clock availability:

Digital libraries can be accessed at any time. 24 hours a day and 365 days of the year

3. Multiple accesses:

The same resources can be used at the same time by a number of users.

4. Structured approach:

Digital library provides access to much richer content in a more structured manner i.e. we can easily move from the catalog to the particular book then to a particular chapter and so on.

5. Information retrieval:

The user is able to use any search term bellowing to the word or phrase of the entire collection. Digital library will provide very user friendly interfaces, giving click able access to its resources.

6. Preservation and conservation:

An exact copy of the original can be made any number of times without any degradation in quality.

7. Space:

Whereas traditional libraries are limited by storage space. digital libraries have the potential to store much more information, simply because digital information requires very little physical space to contain them. When the library had no space for extension digitization is the only solution.



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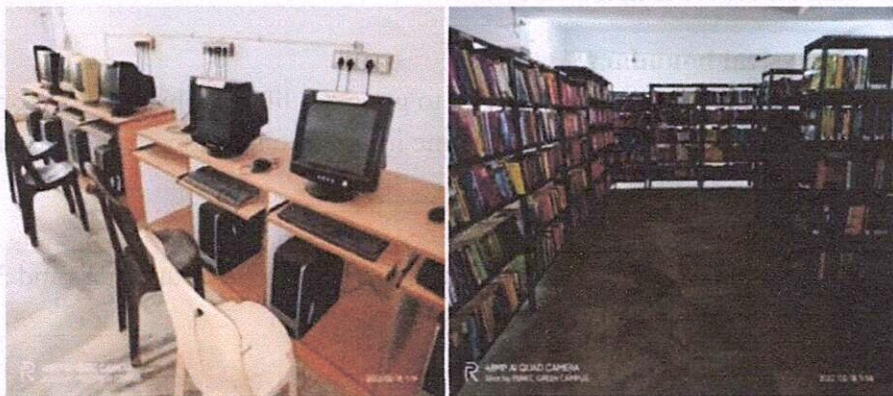
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8. Networking:

A particular digital library can provide the link to any other resources of other digital library very easily thus a seamlessly integrated resource sharing can be achieved.

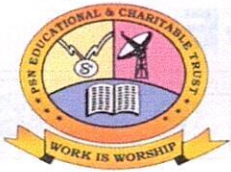


USE OF LED

As a step towards energy saving, total lightings of class rooms, labs and hostel are replaced with LED panels.

The outcomes of LED lights are as given below:-

- Long life. The components of an LED and the way that they generate light significantly extend the lifespan of these bulbs
- Energy efficiency.
- High brightness and intensity.
- Exceptional colour range.
- Low radiated heat.
- Reliability.
- Instantaneous illumination.
- Directional lighting.



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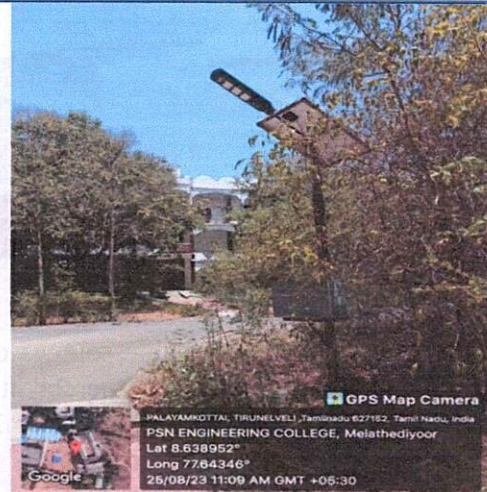
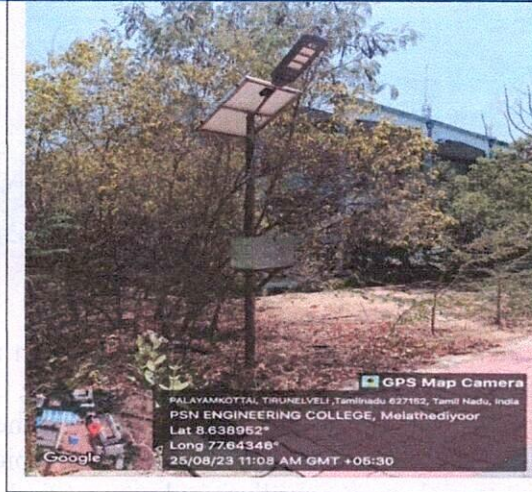
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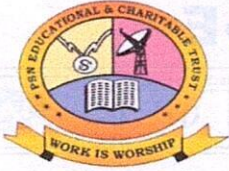
PAPERLESS OFFICE

All offices work on paperless concept by digital display of all the notices and information through mail, Google groups, Whats App Groups, Google classrooms, etc. as much as possible. High speed Network facility is also provided for this. Other practices like, re-use of one-sided paper for notes, sketches, rough work, rough printouts, etc.; cashless transactions, and utilizing multi user printer at central administrative locations of the Institute office also aims at reducing the use of papers.

SOLAR ENERGY

Solar power is energy from the sun that is converted into thermal or electrical energy. Solar energy is the cleanest and most abundant renewable energy source available. The efficacy of solar power can be estimated by the fact that by harnessing just one and a half hour's sunlight, the entire world can satisfy its energy needs for a year. Solar technologies can harness this energy for a variety of uses, including generating electricity, providing light or a comfortable interior environment, and heating water for domestic, commercial, or industrial use.

There are three main ways to harness solar energy: photo voltaic, solar heating & cooling, and concentrating solar power. Photo voltaic generate electricity directly from sunlight via an electronic process and can be used to power anything from small electronics such as calculators and road signs up to homes and large commercial businesses. Solar heating & cooling (SHC) and concentrating solar power (CSP) applications both use the heat generated by the sun to provide space or water heating in the case of SHC systems, or to run traditional electricity-generating turbines in the case of CSP power plants



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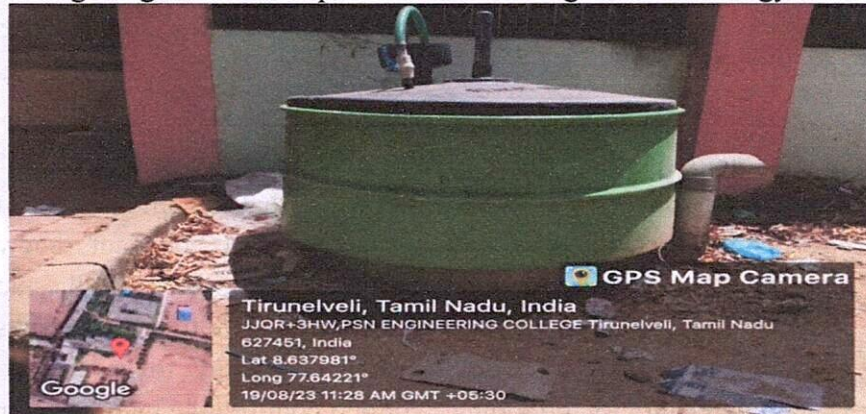
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BIOGAS PLANT

To promote renewable sources of Energy and green fuel there is a modern and state of art. Biogas Plant which is commercial at Dairy & Stable complex, PSN Engineering College. The capacity of the Biogas plant is 6 m³ and it caters to the cooking needs of all the inmates of the dairy and stable complex vis-a-vis all the food given to cows is cooked on biogas stoves. Biogas plant turns dung and organic waste into a clean, non-polluting, low-cost fuel and organic manure which is distributed in our fields. Biogas is a smoke-less domestic fuel. Biogas slurry as a liquid organic fertilizer is a better option to save the costly and harmful chemical fertilizers. The installation of a biogas plant has directly replaced the use of LPG cylinders, cow dung cakes, firewood and it also provides an alternate source of energy and liquid organic fertilizer. It is all-weather fuel available for cooking purposes.

PSN Engineering College has implemented biogas plants as environmentally-friendly energy sources, tackling the global waste epidemic and meeting our local energy demand.



Biogas is renewable fuel that can be used to produce heat and electricity. Indeed, the gases methane, hydrogen and carbon dioxide can be combusted or oxidized with oxygen and that release some useful energy. Like this, biogas can be used for space heating, cooking, water heating and process heating.

PRINCIPAL

Dr. M.S. RAVIKUMAR
Principal
PSN ENGINEERING COLLEGE
Melathediyoor, Palayamkottai
Tirunelveli - 627 152