


Policy Documents of Pillai College of Architecture, New Panvel

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PRINCIPAL
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Policy Documents
on
Energy and Environment Usage




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Pillai College of Architecture, New Panvel has a well-defined and comprehensive policy aligned with environmental conservation. The steps outlined in the Environment and Energy usage policy demonstrate a strong commitment to sustainable practices and reducing the institute's carbon footprint.

- Installing High-Efficiency Solar Panels is an excellent way to generate sustainable energy and reduce reliance on conventional energy sources, thus lowering carbon emissions.
- Replacing conventional bulbs with LED bulbs is a simple and effective energy-saving measure that reduces electricity consumption and operating costs.
- Proper waste segregation, recycling, and disposal practices are essential for reducing the environmental impact of the institute. This helps minimize the amount of waste sent to landfills and promotes recycling.
- Rainwater harvesting is an important practice that conserves water resources and reduces the demand on conventional water sources, contributing to water sustainability.
- Undertaking tree plantation drives and protecting existing greenery is crucial for maintaining biodiversity, improving air quality, and creating a pleasant and serene campus environment.
- Implementing measures to reduce local air pollution, such as restricting vehicle entry and promoting pedestrian-friendly footpaths, not only improves air quality on campus but also creates a healthier atmosphere for everyone.



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- Providing opportunities for students and employees to engage in activities aimed at environmental protection fosters a sense of responsibility and ownership among the community. This helps raise awareness and drive positive change.
- The installation of a plastic recycling machine is a practical step toward managing plastic waste and reducing the environmental impact of plastic pollution.

Pillai College of Architecture's holistic approach to environmental sustainability covers a wide range of areas, including energy conservation, waste management, water resource utilization, greenery preservation, and community involvement. These efforts not only benefit the campus but also serve as a positive example for the broader community and future generations, promoting a more eco-friendly and sustainable future.



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Policy Documents

on

Management of the various types of Degradable and Non-Degradable Waste



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Waste management is a crucial aspect of modern society, and it plays a significant role in preserving the environment and ensuring sustainable development. Pillai College of Architecture, like any educational institution, generates a variety of waste, including degradable and non-degradable waste. Effective management of these waste types is essential to maintain a clean, healthy, and environmentally responsible campus.

- One of the fundamental principles of waste management is the segregation of waste at the source. At Pillai College of Architecture, students, staff, and faculty members are encouraged to separate their waste into degradable and non-degradable categories. This ensures that organic waste, such as food scraps and yard waste, can be managed separately from non-degradable waste like plastics and electronics.
- Degradable waste, particularly organic matter, is diverted from the landfill through composting. The college has established composting pits on campus to convert food waste and garden trimmings into nutrient-rich compost. This compost is then used to fertilize the college's green spaces, promoting sustainability and reducing the need for chemical fertilizers.
- The college conducts awareness programs and workshops to educate the campus community about the importance of managing degradable waste responsibly. These programs help students and staff understand the benefits of composting and encourages them to actively participate in waste segregation efforts.



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- Non-degradable waste, such as plastics, paper, glass, and electronics, is collected separately for recycling. Recycling bins are strategically placed around the campus to make it convenient for students and staff to dispose of recyclable materials properly.
- Electronics waste, including old computers, monitors, and other electronic devices, is collected separately and sent to authorize e-waste recycling centers. This practice ensures that hazardous materials from electronic waste are disposed of safely and in an environmentally responsible manner.
- To minimize the generation of non-degradable waste, the college promotes practices like double-sided printing, encouraging the use of reusable water bottles and bags, and reducing unnecessary paper usage through digital alternatives. These initiatives aim to reduce the overall environmental footprint of the campus.
- The management of degradable and non-degradable waste at Pillai College of Architecture exemplifies the institution's commitment to sustainability and environmental responsibility. Through segregation at source, composting, recycling, and awareness programs, the college has established a comprehensive waste management system that minimizes the impact on the environment and promotes a culture of responsible waste disposal among its students and staff.

As Pillai College of Architecture continues to evolve and grow, its waste management practices serve as a model for other educational institutions and communities, demonstrating that effective waste management is not only a moral imperative but also a practical way to contribute to a cleaner and more sustainable future.



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Policy Documents on Water conservation



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Vision:

Pillai College of Architecture, New Panvel, is committed towards the development and maintenance of water bodies in its vicinity, in alignment with the National Water Policy of 2002 and the 'Jal Shakti Abhiyan'. Water conservation and management are indeed crucial for sustainable development and the well-being of both communities and ecosystems.

The focus areas of 'Jal Shakti Abhiyan' are briefly expressed through the following aspects:

1. Water Conservation and Rainwater Harvesting: Encouraging water conservation practices like rainwater harvesting can help increase groundwater levels and reduce the strain on existing water sources. Implementing such systems in the college campus and promoting them in surrounding communities can have a positive impact on water availability.
2. Renovation of Traditional and Other Water Bodies: Restoring and maintaining traditional water bodies like ponds, tanks, and lakes can improve water storage capacity and biodiversity in the area. The college collaborates with local authorities and communities to identify and work on such water bodies.
3. Drinking Water and Sanitation: Ensuring access to clean and safe drinking water is crucial for the well-being of communities. The college contributes by promoting awareness about the importance of clean drinking water and sanitation practices.



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Through these efforts, Pillai College of Architecture sets an example for other institutions and communities to follow and collectively contributes to the national goal of responsible water resource management. Additionally, the college integrates water conservation and sustainability principles into its academic programs, encouraging students to become future architects who prioritize environmental stewardship.

Objectives:

Pillai College of Architecture, New Panvel takes the comprehensive measures to ensure efficient water utilization and conservation.

The objectives are as follows:

- Rainwater Harvesting to be implemented: Rainwater harvesting is in place to capture and store rainwater for various uses.
- The goal is to maintain a continuous, hassle-free supply of water around the clock. This is important for the functioning of the campus and the well-being of its occupants.
- Both students and staff play a significant role in the institute's water sustainability strategy. Their awareness, participation, and responsible water usage contribute to the overall conservation efforts.
- One of the key objectives is to reduce water consumption. This can be achieved through a combination of efficient fixtures, awareness campaigns, and responsible water usage practices.



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- The institute is actively working to protect water resources by minimizing pollution and wastage. This contributes to the overall health of local water ecosystems.
- Water storage tanks in each building are monitored to prevent overflow or leakage. This ensures that water is used judiciously and not wasted.

PiCA focuses on multiple aspects of water management, from efficient usage to recycling and protection of water resources. This approach is vital for creating a sustainable and environmentally responsible campus environment.

Practices:

Pillai College of Architecture, New Panvel demonstrates a commitment to utilizing water resources efficiently and responsibly.

- Rainwater Harvesting System: Collecting rainwater for non-potable uses like gardening and landscaping reduces the demand on freshwater sources. It also prevents runoff, erosion, and flooding while recharging the groundwater.
- Drain Filters for Groundwater Recharge: Using filters on drains allows water to percolate into the soil, replenishing groundwater and maintaining its quality.
- Borewells for Clean Water Supply: Borewells are constructed to provide a consistent supply of clean water for various campus activities. Properly managed borewells can reduce the strain on municipal water supplies and support sustainable water use.



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- Drinking Water Purification: Installing water coolers and purifiers at drinking water supply points ensures the availability of safe and clean drinking water, promoting health and reducing the need for bottled water.
- Regular Pipe Checks and Leak Repairs: Monitoring water pipes for leaks and promptly repairing them reduces water wastage and prevents damage to infrastructure. It also contributes to cost savings and efficient water use.

These practices collectively contribute to water conservation, efficient water management, and environmental sustainability. They also showcase a responsible approach to water use, which is crucial in mitigating the growing water scarcity challenges faced by many regions. Regular maintenance, monitoring, and continuous improvement of these practices will further enhance their effectiveness in the long run.



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Green Campus



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The Green Campus

Pillai College of Architecture, New Panvel has a comprehensive approach to environmental sustainability and energy management. The initiative is guided by the Green Policy of MES, PiCA.

- Green Policy MES has cultivated a sense of sustainability in all its institutions.
- PiCA is imbued with the spirit of concern and care for the environment.
- It has believable and demonstrable quality green environment both in the interior and in the exterior. Green is the next gold.
- PiCA has an enviable location surrounded by hills and greenery.
- The transport facility provided by the management helps staff and students to reach the college fairly comfortably and reduces the usage of a large number of private vehicles.
- This has reduced the usage of fuel and thus enhanced reduction in carbon emission on a daily basis.
- The limited use of stationery and plastic and reminders to switch off fans and lights when not required and conserving of water, etc., both contribute to good green practices and also inculcate the same in students.
- Environmental sustainability in terms of waste management, rainwater harvesting, students and staff using public transport, pedestrian friendly internal roads, green landscaping, natural lighting in classrooms, solar lighting of the internal roads and periphery of the campus, etc. are part of the architecture.



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- Maintenance free exterior of the buildings with gypsum tiles considerably saves on painting of the exterior of the building up to twenty years giving both beauty and elegance.
- The reduces the carbon foot print in terms of year-to-year maintenance and the consumption of paint and other hazards of painting a seven storey building and the associated risks.
- Natural cooling as gypsum tiles reflect light and heat is additional benefit contributing to reduce global warming in a miniscule way.
- Manicured, verdant lawns of ample proportions and the well-planned and designed gardens covering more than 25,000 sq.ft., imaginative landscaping, over two hundred variety of beautiful and carefully selected plants and shrubs and herbs that adorn the gardens, and decades old big trees that surround the campus would make anyone want to study in PICA.
- Eight acres of well cared green sports ground that cater for a large number of sports and games makes PICA the dream of any student athletically inclined. While designing the campus and during construction every care has been taken to protect some of the decades old large trees that provide green cover and is the lung of any human settlement.
- The value and contribution of some of the trees on the campus is worth more than their weight in gold.



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- Overall PICA has appreciable green practices. Time has come to articulate these into a policy for perpetuity. However, these policies need to be revisited and modified from time to time as per the need of the times.
- PICA shall endeavor to inculcate a feeling for the environment in its stakeholders as well as make them conscious of what we owe to nature.
- PICA shall have a special Sustainability Cell/ Club/Board created under the aegis of the Students Council including students of all classes to cultivate among students awareness of what each can do to make PICA remain environment friendly at all times.
- PICA shall observe important days like Earth day in a manner to make all conscious of the dangers of neglecting environment.
- PICA shall have a dedicated a section in the Library to inform the every visitor about all important happenings in the area of environment.
- PICA shall include waste management, rainwater harvesting and usage of renewable energy also in the Green policy.
- PICA shall conduct regular green audit to ensure that green practices are upheld and to strive to reduce the carbon footprint.



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Policy Documents

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Disable-Friendly, Barrier Free Environment



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Inclusivity and accessibility are fundamental principles that every educational institution should uphold. It is essential to create an environment where all individuals, including those with disabilities, can thrive and fully participate in academic, social, and extracurricular activities. Pillai College, like any other educational institution, strives to be disable-friendly and provide a barrier-free environment for all its students, staff, and visitors.

- One of the primary aspects of creating a disable-friendly environment is ensuring physical accessibility. This involves making the campus infrastructure and facilities easily accessible to individuals with mobility impairments. The following measures are implemented:
- Ramps and Elevators: Ramps and elevators in all buildings to enable wheelchair users to access different floors is ensured.
- Accessible Parking: Designated accessible parking spaces close to the main entrances is provided and ensured that pathways from parking areas are well-paved and obstacle-free.
- Accessible Classrooms: Classrooms are designed to accommodate students with mobility impairments, accessible seating arrangements are provided.
- Braille Signage: Braille signages are provided in the Elevators throughout the campus.
- Mental Health Support: Counsellor is offered to address the psychological well-being of students and staff.



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- In addition to physical modifications, PICA promotes awareness and sensitivity toward disability-related issues across the campus.
- Disability Awareness Workshops: Conduct of regular workshops and seminars to educate students, staff, and faculty about different types of disabilities and how to interact respectfully with individuals who have disabilities are undertaken
- Accessible Events: PICA ensures that all campus events and activities are accessible to individuals with disabilities, including providing accessible seating and communication support.

Creating a disable-friendly, barrier-free environment at Pillai College of Architecture Campus is not just a legal obligation; it is a moral imperative. An inclusive environment not only benefits individuals with disabilities but enriches the entire campus community by fostering diversity and promoting a culture of empathy and respect. By implementing physical, sensory, cognitive, and psychological accessibility measures and promoting disability awareness, Pillai College can truly become a place where all individuals have the opportunity to thrive and reach their full potential.



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