



ENERGY, ENVIRONMENT & GREEN POLICY

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LIST OF CONTENTS

CHAPTER NO	TITLE	PAGE NO
	VISION	2
	MISSION	2
	QUALITY POLICY	2
1.	ENERGY AND ENVIRONMENTAL POLICY	2
	1.1.PREAMBLE	2
	1.2.OBJECTIVES OF THE POLICY	2
2.	GREEN POLICY	3
	2.1.PREAMBLE	3
	2.2.OBJECTIVES OF THE POLICY	3
3.	INITIATIVES	5
	3.1.ENERGY, ENVIRONMENTAL AND GREEN AUDIT	5
	3.2.CLEAN AND GREEN CAMPUS INITIATIVES	5
	3.3.PLASTIC-FREE CAMPUS	6
	3.4.ENVIRONMENTAL PROMOTION ACTIVITIES BEYOND THE CAMPUS	6

VISION

“To become an internationally Renowned Institution in Technical Education, Research and Development by Transforming the Students into Competent Professionals with Leadership Skills and Ethical Values.”

MISSION

- Providing the Best Resources and Infrastructure
- Creating Learner-Centric Environment and Continuous Learning
- Promoting Effective Links with Intellectuals and Industries
- Enriching Employability and Entrepreneurial Skills
- Adapting to Changes for Sustainable Development

QUALITY POLICY

To strive continuously for producing the best results in terms of knowledge, self- discipline and application of the knowledge acquired.

1. ENERGY AND ENVIRONMENTAL POLICY

1.1.PREAMBLE

To facilitate the implementation of the Tamil Nadu State Environment Policy 2017, KNCET is committed to environmental sustainability by promoting efficient energy usage and minimizing environmental impact. This Energy and Environmental Policy aligns with the institution's vision and applies to all its stakeholders.

Through effective solid waste management, water recycling, sewage treatment plants (STP), and the proper disposal of biomedical and plastic waste. KNCET strive to uphold its responsibilities and commitment to conserving natural resources while limiting their overuse.

1.2.OBJECTIVES OF THE POLICY

- Use all types of energy efficiently and encourage a culture of energy conservation.
- Explore and promote innovative energy-saving ideas among all stakeholders.
- Ensure responsible use of energy and water through smart and sustainable practices.
- Identify and reduce energy consumption through regular assessments.

- Manage waste effectively through proper segregation and disposal.
- Increase the use of renewable energy sources, such as solar plant and solar water heater.
- Replace traditional tube lights with energy-efficient LED lights.
- Implement 5S practices with monthly audits to identify and resolve energy and environmental issues promptly.
- Reduce solid waste and use bio-methanation to convert food waste into energy.
- Continuously improve zero-waste practices and work towards achieving a net-zero energy campus through responsible resource management
- Conduct regular audits of energy, water, and the environment usage, implementing conservation methods such as rainwater harvesting, wastewater treatment, recycling, and optimizing electricity consumption.
- Promote water conservation by recycling wastewater and sewage.
- Strengthen environmental education by offering relevant courses, practical sessions, and projects.
- Encourage active participation of students, staff, and stakeholders in sustainability efforts and provide opportunities for students and staff to participate in environmental protection initiatives.

2. GREEN POLICY

2.1.PREAMBLE

KNCET has devised a policy to support green initiatives and urges its stakeholders to adhere to it, with a commitment to developing the campus as a place where education integrates environmentally friendly practices to promote sustainable development and minimize its environmental impact.

2.2.OBJECTIVES OF THE POLICY

To create awareness among stakeholders about the importance of conserving natural resources, enhancing green initiatives, and adopting eco-friendly practices in all aspects of campus life. Through these efforts, the institution strives to contribute to a cleaner, healthier, and more sustainable environment, while supporting the well-being of all members of the campus community.

- Tree Plantation: Continuously plant trees throughout the campus, especially in underutilized areas, to improve air quality and promote a greener environment.

- **Water Recycling Management:** Establish and maintain a wastewater management system to treat and remove suspended particles, enabling the reuse of treated water for campus gardening. Wastewater will never be discharged; instead, it will be repurposed for beneficial uses.
- **Solar Power Plant:** Install solar plants and biogas systems to support renewable energy generation and reduce dependence on fossil fuels. Solar energy panels and water heaters will be installed regularly as part of continuous improvement efforts.
- **Rainwater Harvesting:** Set up rainwater harvesting systems to recharge groundwater. Harvested water will be pumped into open wells or borewells for further use.
- **Carbon Neutral Initiative:** Implement paperless governance using ERP software and ICT tools. Reuse one-sided paper printouts as part of a carbon-neutral strategy to reduce paper waste.
- **Plastic-Free Campus:** Ban the use of plastic or polyethylene inside the campus and encourage the use of environmentally friendly alternatives, such as paper bags and silver cups.
- **Mode of Transport:** Encourage students to use college transportation facilities or public transport to commute. A designated parking area will be available for staff vehicles, and vehicle entry into the campus will be restricted beyond a certain point.
- **Use of LED Bulbs and Power-Efficient Equipment:** Increase the usage of energy-efficient equipment, such as LED bulbs, star-rated refrigerators, and air conditioners, to reduce power consumption.
- **Biogas Plant:** Generate biogas from food waste and other waste collected from the hostel to support non-conventional energy sources, reducing emissions from fossil fuel-based energy production.
- **Landscaping:** Promote green initiatives like tree plantation, which will contribute to expanding the campus's green cover. Over 30% of the campus area is dedicated to trees, plants, shrubs, and herbs. Pedestrian-friendly pathways will be provided for the safe and easy movement of staff and students.

3. INITIATIVES

KNCET conducts regular quality audits on environment and energy to demonstrate its commitment to energy and environmental initiatives. This commitment is reflected through the following practices:

1. Energy, Environmental and Green Audit
2. Clean and Green Campus Initiatives
3. Plastic-Free Campus
4. Environmental Promotion Activities Beyond the Campus

3.1. ENERGY, ENVIRONMENTAL AND GREEN AUDIT

The institution conducts yearly Energy, Environmental, and Green Audits to assess strengths and areas for improvement, with a focus on long-term sustainability goals. Energy audits are vital for improving energy efficiency, reducing consumption, and achieving broader economic, environmental, and social benefits. By monitoring energy use, the annual audit helps develop and implement energy-saving strategies across the campus, contributing to carbon footprint reduction. Specialized tools are used to detect energy wastage, and the issues identified often have simple, cost-effective solutions that result in significant savings.

An Environmental/Green Audit provides a comprehensive evaluation of environmental performance and its impact. Policies, practices, and procedures are reviewed periodically to identify areas for improvement. The main goal is to enhance sustainability by identifying risks and ensuring compliance with environmental standards. The audit also assesses the use of energy and water resources, with a focus on implementing cost-effective strategies.

Internal audits are conducted annually by the members of the Internal Quality Assurance Cell (IQAC), under the guidance of the IQAC Coordinator and Principal. Additionally, plans are in place to engage external agencies for conducting the annual Energy, Environmental, and Green Audits.

3.2. CLEAN AND GREEN CAMPUS INITIATIVES

Under the National Service Scheme (NSS), the institution takes initiatives to promote mass awareness about cleanliness and hygiene among stakeholders by organizing regular cleanliness drives both on and off-campus. Posters are displayed throughout the campus, and the maintenance department

is actively involved, with the supervisor providing detailed daily reports of all maintenance activities. Various events are arranged in collaboration with the government, NSS, and NGOs to ensure an eco-friendly and hygienic environment.

3.3. PLASTIC-FREE CAMPUS

KNCET has been committed to solid waste management since its inception. In line with the Government of India's resolution to ban the use plastics due to their environmental impact, the institution has strictly prohibited the use of such plastics on campus. This initiative aims to create a **"Plastic-Free Campus"**, promoting sustainable alternatives. Through awareness campaigns, workshops, and active participation from students and staff, KNCET nurtures a culture of environmental responsibility, supporting the national movement to reduce plastic pollution and contributing to a cleaner, greener campus.

3.4. ENVIRONMENTAL PROMOTION ACTIVITIES BEYOND THE CAMPUS

The NSS and YRC organize numerous events to raise environmental awareness within the surrounding community and promote activities beyond the campus. They conduct tree plantation and cleanliness drives in adopted Villages. The NSS sensitizes and trains students on environmental issues, encouraging their active participation in various outreach programs. The institution recognizes its responsibility to protect and preserve the environment through diverse initiatives. To fulfil this commitment, it undertakes various infrastructural projects and actively promotes environmental awareness, both within the campus and in the wider community.



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College of Engineering & Technology
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w.e.f - 21/01/2022

