



# **Model Institute of Engineering & Technology (Autonomous)**

## **Environmental & Sustainability Policy**

2021-26

# INTRODUCTION

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Model Institute of Engineering and Technology acknowledges its crucial role in fostering environmental sustainability and recognizes the shared responsibility to preserve the environment for future generations. This policy outlines the core principles and practices that guide institute's commitment to responsible resource management and minimizing its environmental impact.

# VISION AND MISSION STATEMENT

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## **Vision:**

The institute is committed to pioneering environmental responsibility in the education sector, by promoting responsible resource management and fostering a culture of sustainability within the MIET community, it strives to inspire positive change.

## **Mission:**

- Integrate environmental responsibility into all facets of college operations, encompassing academic endeavours, infrastructure management, daily practices, and transportation.
- Champion sustainable practices through:
  - **Education:**
    - Integrate environmental education across various disciplines.
    - Organize lectures, workshops, and educational events on environmental issues.
    - Develop and implement environmental awareness campaigns throughout the academic year.
  - **Awareness:**
    - Publish informative material on environmental sustainability initiatives for the campus community.
    - Utilize signage and visual communication strategies to promote environmental awareness.
    - Organize environmental awareness competitions and events.

- **Community Engagement:**
  - Partner with relevant organizations and stakeholders to promote joint environmental initiatives.
  - Offer opportunities for student participation in environmental projects and research.
  - Encourage collaboration with local communities to foster a broader environmental consciousness.
- Continuously strive towards environmental excellence by setting measurable goals, implementing effective strategies, and monitoring progress.
- Collaborate with various stakeholders to develop and implement sustainable solutions that benefit the broader community.

## KEY FOCUS AREAS

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### 1. Energy Conservation:

- Implement energy-efficient infrastructure by:
  - Utilizing energy-saving lighting like LEDs and occupancy sensors in buildings.
  - Investing in energy-efficient appliances and equipment.
  - Exploring and adopting renewable energy sources like solar panels.
- Promote responsible energy consumption practices in the campus community:
  - Launch awareness campaigns to promote energy-saving habits, such as switching off lights and electronics when not in use.
  - Designate energy-efficient champions within different departments to promote responsible energy use.
  - Conduct regular energy audits to identify and address areas for improvement.

### 2. Water Management:

- Implement water conservation practices:
  - Install low-flow faucets and showerheads in restrooms and laboratories.
  - Implement rainwater harvesting systems to capture and utilize rainwater for irrigation and other non-potable uses.
  - Implement leak detection and repair programs to minimize water waste.

- Educate the campus community about water conservation techniques:
  - Organize workshops and seminars on water conservation strategies.
  - Integrate water conservation principles into relevant courses and curricula.
  - Launch awareness campaigns promoting responsible water usage.
- Monitor water usage and set reduction targets:
  - Install water meters in buildings to monitor water consumption.
  - Establish baseline water usage data and set measurable water reduction targets.
  - Publish water usage data and progress towards reduction targets to foster transparency and accountability.

### **3. Waste Management:**

- Minimize waste generation through the "Reduce, Reuse, Recycle" (RRR) hierarchy:
  - Promote the use of reusable items by providing reusable water bottles, shopping bags, and food containers.
  - Encourage the responsible consumption of resources by minimizing unnecessary printing and reducing paper usage through digital alternatives.
  - Explore opportunities for composting organic waste generated in cafeterias and on campus grounds.
- Implement a comprehensive waste segregation and collection system:
  - Provide color-coded bins for different waste categories, such as paper, plastic, metal, glass, and organic waste.
  - Partner with reliable recycling companies to ensure proper waste disposal and recycling.
  - Organize waste collection drives and encourage the campus community to participate actively.
- Organize waste minimization workshops and promote responsible waste disposal practices:
  - Conduct workshops on the importance of the RRR hierarchy and waste segregation practices.
  - Launch campaigns promoting responsible waste disposal habits, such as avoiding littering and using designated bins.
  - Partner with student organizations to create innovative solutions for waste reduction and resource recovery.

#### **4. Biodiversity and Campus Greening:**

- Conserve and enhance existing green spaces on campus:
  - Conduct biodiversity assessments to identify existing flora and fauna on campus.
  - Develop and implement plans to protect and enhance existing green spaces.
  - Encourage the participation of the campus community in tree-planting and greening initiatives.
- Plant native trees and shrubs to promote biodiversity and improve air quality:
  - Prioritize the planting of native species adapted to the local climate.
  - Utilize diverse and resilient plant species to enhance the aesthetic appeal and ecological value of the campus environment.
  - Educate the campus community about the benefits of native plant species and their role in biodiversity conservation.
- Develop and maintain sustainable landscaping practices that minimize resource consumption:
  - Implement water-efficient irrigation systems.

#### **5. Sustainable Procurement:**

- Prioritize eco-friendly products and services when making purchases:
  - Conduct life-cycle assessments of products to consider their environmental impact throughout their lifespan.
  - Favor products with eco-labels and certifications that demonstrate adherence to sustainable practices.
  - Give preference to local suppliers and businesses with a commitment to environmental responsibility whenever possible.
- Implement sustainable purchasing policies and procedures:
  - Develop and implement clear guidelines for incorporating sustainable considerations into the procurement process.
  - Train procurement staff on sustainable sourcing practices and responsible purchasing principles.
  - Partner with other institutions and organizations to collaborate on sustainable purchasing initiatives.

**6. Environmental Education and Awareness:**

- Integrate environmental education across various disciplines:
  - Develop and incorporate environmental modules into relevant courses across different engineering and technology specializations.
  - Encourage interdisciplinary collaboration to explore the environmental implications of technological advancements across various fields.
  - Provide opportunities for students to engage in research projects related to environmental sustainability.
- Organize lectures, workshops, and educational events on environmental issues:
  - Invite renowned environmental experts and professionals to deliver lectures and workshops on various environmental topics.
  - Organize film screenings, exhibitions, and panel discussions on environmental challenges and solutions.
  - Encourage student participation in organizing and conducting environmental awareness events.
- Develop and implement environmental awareness campaigns throughout the academic year:
  - Launch targeted campaigns addressing specific environmental issues like energy conservation, water management, and waste reduction.
  - Utilize various communication channels, including social media, campus publications, and events, to reach the entire campus community.
  - Collaborate with student organizations to create engaging and interactive awareness campaigns.

**7. Transportation:**

- Encourage the use of sustainable transportation options like walking, cycling, carpooling, and public transportation through the following initiatives:
  - Provide secure and well-maintained bicycle parking facilities within the campus grounds.
  - Collaborate with local authorities to enhance cycling infrastructure and safety measures in the surrounding area.
  - Offer incentives for carpooling, such as designated parking spaces or preferential parking fees.

- Partner with local public transport agencies to promote public transport usage and explore the feasibility of subsidized passes for students and staff.
- Discourage single-occupancy vehicle usage:
  - Implement parking fee structures that reflect the environmental impact of different vehicle types.
  - Designate certain parking areas for carpools and low-emission vehicles.
  - Implement awareness campaigns promoting sustainable transportation options and the benefits of reducing single-occupancy vehicle use.
- Encourage the use of fuel-efficient vehicles in the college fleet:
  - Gradually replace older vehicles with fuel-efficient models or electric vehicles whenever feasible.
  - Prioritize the acquisition and utilization of electric or hybrid options for campus shuttle services.
  - Implement a responsible driving policy that promotes fuel-efficient driving practices within the college fleet.

This policy serves as a comprehensive roadmap for MIET's journey towards environmental sustainability. Through consistent implementation, continuous improvement, and active community engagement, MIET aspires to become a role model for environmental stewardship, inspiring positive change within the educational sector and contributing to a more sustainable future for all.

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