Manakula Vinayagar Institute of Technology
Kalitheerthal kuppam, Puducherry – 605 107
(Approved by AICTE, New Delhi, and affiliated to Pondicherry University)

GREEN ENVIRONMENT POLICY

Approved in the Governing body meeting held on **April 16, 2018**

PREFACE

A Green Environment ensures health and hygiene to everybody. It is mandatory to create a Green Environment in an Educational Institution, to accommodate varied practices of Teachers and learners and ensure its productive outcomes. This would involve eco-friendly practices to promote sustainable environment with greeneries in the campus. The green campus concept offers an 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 mankind. In order to ensure it, the Institute should create awareness regarding the environmental impact and the carbon footprints in the Institute's Premises.

Manakula Vinayagar Institute of Technolgy (MVIT), Puducherry is highly sensitive on implementation of green concepts with utmost care and dedication, in the campus. Apart from establishment and maintenance of green campus, the Institute takes up earnest responsibility in spreading awareness about green practices among students and other stake holders. Manakula Vinayagar Institute of Technolgy , effectively manages water resources, waste management, solar and electric energy, conserve natural resources, and provide ecofriendly and solar passive building and minimal use of paper.

The Institute has framed this policy with a commitment to comply with environmental laws and regulations, through investing its resources toward managing environmental affairs. As a part of it, it also provides training to all employees and students to carry out their job in a safe and environmentally responsible way.

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A Green Environment Policy is the commitment to sustainability and environmental management that the Institute is prepared to make formal practices for employees and stakeholders in managing environmental issues. A Green Policy defines the Institute's approach, to improve the environment and provides a framework for the developing green practices.

1. OBJECTIVES

i. To provide a healthier, eco-friendly working environment to the Employees and Students.

ii. To build awareness among students about conservation of natural resources and development of sustainable environment.

iii. To conserve natural environment, develop sustainable solutions, innovations and startups, promote technologies for reducing energy consumption in order.

iv. To develop the ability to meet out the expectations of stakeholders on Environment free from Pollution

v. To initiate measures to reduce waste and carbon footprints in the Institute.

vi. To Promote knowledge about the Green Environment among the Institute's Stakeholders

2. SCOPE OF THE POLICY

The Green Environment Policy would develop co-curricular and extracurricular practices that involve students and staff in all the initiatives of infrastructural, administrative functions that would contribute to improve energy efficiency, sustainability and the environment.

The focus areas of this policy are:

2.1. Clean Campus Initiatives

2.2. Landscaping Initiatives

2.3. Infrastructure

- o Solar Power Plant
- o Installation of Energy Efficiency Equipment
- o Water Conservation through Rainwater Harvesting System

2.4. Waste Management processes

- o Solid Waste Management
- o Liquid Waste Management
- o E-Waste Management

2.5. Water Management

2.6. Awareness Initiatives

2.7. Environment-centric Clubs and Activities

2.8. Green Audit

2.9. Energy Audit

2.10. Plastic-Free Campus

2.1. CLEAN CAMPUS INITIATIVES

The Institute coordinate cleanliness activities in and around the college campus in accordance with the vision of Swachh Bharat Abhiyan.

i. Generating mass awareness on cleanliness and hygiene amongst students and staff members by holding regular cleanliness drives.

ii. Activities under 'Swachh Bharat Abhiyan' would be included in community work done by NSS Unit of the college.

iii. Students and staff members would maintain cleanliness of the college campus and its surrounding areas on an annual basis.

iv. It also include the removal of all kinds of waste material like broken furniture, unusable equipment etc., from the campus.

v. Conducting workshops on the 3Rs: Reduce, reusing and recycling of waste.

2.2. LANDSCAPING INITIATIVES

i. It involves providing eco-friendly space for study, play, outdoor events, relaxation and aesthetic appreciation to the students.

ii. Green campus landscapes would be created in such a way to ensure the optimal level groundwater table, and circulation of clean and fresh air on campus.

iii. The landscape should serve as a visual representation of the campus community's commitment to sustainability.

iv. The Institute commits to enriching this healthy habitat and maintaining the symbiotic relation of the institution with nature by

- Organizing annual tree plantation drives
- Encouraging student clubs to hold tree planting events

2.3. INFRASTRUCTURAL INITIATIVES

i. MVIT would develop infrastructure to minimize the consumption of electricity produced by non-renewable resources.

ii. The Institute adopts smart switching between Conventional energy sources and renewable energy sources.

iii. The Institute is committed to install environment-friendly energy saving electrical appliances.

iv. The Institute should use cleaner energy such as LED lighting.

2.4. WASTE MANAGEMENT

(Refer. SOPs for Waste Management and E-Waste Management)

i. Spread the awareness amongst society about the waste management for ecosystem and methods for its disposal.

ii.   Promote the efforts for the conversion of waste into renewable energy

2.5. WATER MANAGEMENT

iii.   MVIT has committed itself to the effort to replenish the groundwater table by practicing rainwater harvesting.

iv.   The taps should be regularly inspected and corrected to avoid loss of potable water.

v.   Promote effective water management through drip pipe lines, recycling of drainage and rain water harvesting.

vi.   The Institute should work upon efficient waste water management particularly in student's hostels.

vii.   Water flow restrictors on bathroom faucets and showers, low water flow toilets and automated urinal flushers should be used to cut down usage of water in the Campus.

2.6. AWARENESS INITIATIVES

i.   Outreach and Education enables the achievement of the policy objectives and aid in its implementation.

ii.   The Institute supports and encourages awareness campaigns, seminars, workshops, conferences and other interactive sessions to facilitate effective implementation of the Green Campus, Energy and Environment policies

2.7. ENVIRONMENT-CENTRIC CLUBS AND OTHER ACTIVITIES

ECO Club has been constituted with the following objectives.

i.   Educating Students about Pollution and Environmental hazards through human activites and measures to minimize it.

ii.   Organising seminars, debates, lectures and popular talks on environmental issues.

iii.   Creating Awareness about Environmental Protection / Preservation Activities like Rain Water Harvesting, energy consumption, waste Management, etc.

iv.   Collaborating with other cells like NSS, RRC, etc to accomplish the greening of the campus and involve in clean-up drives (in locality), door-to-door campaigns, Campaigns against banned carry bags, etc

v.   To Observe / Schedule Green Day (Pollution Free Day), Earth Day (Tree Plantation).

vi.   To facilitate the conduct of Green Audit and Energy Audit within the campus.

vii.   The associate with Innovation Club to evolve eco-friendly products.

Energy Club would actively function in the Institute in association with Renewable Energy Agency – Puducherry (REAP) to ensure optimal utilization of Energy and install Energy saving Mechanisms, wherever applicable.

2.8. GREEN AUDIT

i. The college regularly conducts a Green Audit in its campus to assess the strengths and weaknesses in attaining long-term sustainability.

ii. A green audit identifies the usage of energy or water or resources and enables saving of it.

iii. The Institute should determine the type and volume of waste along with recycling projects or waste minimization plans.

iv. It should create health consciousness and promote environmental values and ethics

v. It provides a better understanding of the impact of ecofriendly practices on campus.

2.9. ENERGY AUDIT

i. An Energy Audit should be conducted as and when required to reduce its carbon footprint.

ii. The energy audit, with its specialized tools would identify wastage of energy and should identify flaws which cause a loss of significant amount of energy.

2.10. PLASTIC-FREE CAMPUS

- MVIT has been observing most of its duties in terms of solid waste management since its inception.

- In view of the Government of India's resolution to ban all single use plastics due to the hazardous impact of plastic use and pollution, the college administration strictly bans the use of single use plastics in its premise to make it a 'Plastic Free Campus'.

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Annexure

1. **PROMOTION OF "SAVE ENERGY TIPS" IN AND OUTSIDE THE INSTITUTE:**

   i. Activate power management features on your computer and monitor so that it will go into a low power "sleep" mode when you are not working on it.
   ii. Turn off your monitor when you leave your Table.
   iii. Activate power management features on your laser printer.
   iv. Whenever possible, shut down rather than logging off.
   v. Turn off unnecessary lights and use daylight instead.
   vi. Avoid the use of decorative lighting.
   vii. Use LED or compact fluorescent bulbs.
   viii. Keep lights off in conference rooms, classrooms, lecture halls when they are not in use.
   ix. Use the fans only when they are needed.
   x. Set AC temperature at 24+ $-^0$ **C** for effective energy conservation
   xi. Unplug appliances not plugged into power strips (like TVs, Refrigerators, ACs, tea/coffeepots, printers, faxes, and chargers etc.)

2. **MAJOR GREEN CAMPUS INITIATIVES**.

   i. Installation of Solar PVPower Station at the top of Institute building. This will enable the institute to have 24x7 power supply
   ii. Waste water Management/ Rainwater harvesting
   iii. Development of Sewage Water Treatment Plant
   iv. Use of recycled water for gardening
   v. Use of Micro-scale techniques
   vi. Sensor based energy conservation
   vii. Displayed poster on E-waste Management
   viii. Maintenance of water bodies and distribution system in the campus
   ix. MIS to make paperless administration
   x. Plastic free Campus

xi.   Tree Plantation Drive

xii.   Cleanliness Drive

xiii.   Landscaping and gardens

xiv.   Digital Library/ E-Learning Centre

xv.   Establishment of Eco-Club

xvi.   Green, Environment and Energy Audit conducted

xvii.   Restricted entry of automobiles

xviii.   Link Green-Campus activities to Academics in the Institute.

xix.   Establish a Green Campus Environmental Ethic Awareness campaigns.

xx.   Organize sensitization /Awareness Programs for the students, faculty and society.

xxi.   Develop a strategic plan and create student teams to carry out specific tasks of the strategic plan. For instance, a plan to save energy at the institute level by conducting energy audit

xxii.   Phase out the CFL and conventional light source such as bulbs and tube lights, halogen and mercury street/campus lights and get them replace by the LEDs.

xxiii.   Purchase only Energy Efficient Computers viz: "ENERGYSTAR" or any other equivalent.

xxiv.   Establish partnerships with professional bodies and local environmental agencies, utilities, and the business community.

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