MIT Art, Design and Technology University, Pune

(Estd. by the Government of Maharashtra vide MIT Art, Design and Technology University, Act 2015 (Act no. XXXIX of 2015)

Green Campus Policy

(Revised)

Rajbaug, Loni Kalbhor, Pune 411 201, Maharashtra, India

"We must build an agenda for speedy yet sustainable economic growth that is inclusive of all, is respectful of individuals, responsive to innovation and responsible towards the future generations."

- Honorable Prime Minister Narendra Modi

MIT Art, Design and Technology University

Policy Document

Preface:

MIT Art Design and Technology University has been making concerted efforts for taking a leap towards world class education. It is amongst the leading Government recognized Private Universities within the ambit of the renowned MIT Group of Institutions, Pune. MIT ADT University is a multi-disciplinary university which is famous for its sprawling lush green campus of 125 acres and picturesque location. University is the manifestation of the serenity of Mother Nature aesthetically built on the banks of Mula-Mutha river.

The University is driven by the vision of delivering the world – class value-based education and Holistic development of the student's personality, enabling them to transform themselves into Future Global Leaders.

Vision:

MIT Art, Design and Technology University aspires to be the University of Eminence by amalgamating Art, Design, Science and Technology. The University aims to have a transformative impact on society through holistic education, multidisciplinary research ethos, innovation and entrepreneurial culture.

Mission:

The Mission of MIT Art, Design and Technology University is to provide impetus to faculty, learners, and staff by developing their innate intellectual capabilities, creative abilities, and entrepreneurial mind-set for the socio-economic development of the nation.

We empower learners to become adaptive and agile global professionals through unique specialized programs building academic-industrial partnership.

We nurture learners to be intellectually curious, technologically equipped, mentally sound, physically fit, spiritually elevated, socio-culturally sensitive, environmentally conscious through continuous holistic education for the ever-evolving world.

We provide technology-enabled learner-driven curriculum, value added courses, simulated learning environments, state-of-the-art infrastructure and opportunities for community engagement.

Aim:

The Green campus Policy envisions a clean green campus with optimum resource utilization, conservation of ecology, biodiversity, and environment, with sustainable and eco-friendly and energy efficient practices integrated in daily life on campus.

Objectives:

1. To prepare a roadmap to achieve an energy efficient, environmentally sensitive blue-green and net zero campus, by aligning with the government guidelines.
2. To establish required support systems, infrastructure, and mechanisms to monitor the same.
3. To facilitate environmentally friendly, energy efficient, net zero and green activities by integrating them into the daily practice, academic, co-curricular, extra-curricular activities at university level.
4. To monitor the outcome and map the changes on a regular basis.
5. To create awareness amongst different stakeholders of the society as a responsible University.

Focus Areas:

A: Blue-Green campus (Net Zero Campus):

1. Clean River
2. Landscape Initiatives
3. Green Audit
4. Water Management
5. Rainwater Harvesting

B: Energy:

1. Grid connected PV Solar System.
2. Electrical
3. Energy Audit
4. Energy Management / Efficiency

C: Environment:

1. Solid Waste management
2. Liquid Waste management
3. E-waste management
4. Clean Air quality
5. Environmental Audit

A: Blue-Green campus:

1. **Clean river** - The university to act on a 'clean river initiative' to improve the water quality of the river and the subsidiary streams nearby. The initiative taken by the university shall create self-awareness amongst the employees and students which will imbibe a culture of sustainable development. University shall make effort to stop the solid waste dumping in the riverbanks from the nearby areas, as the deposition of this waste into the river water is damaging the aquatic life & deteriorating the water quality. The water flowing through the nullahs to the river to be treated before joining the river. The hyacinth blanket above the water reduces the oxygen content in the river. University shall encourage and take effort to remove the siltation at the river basin, remove the water hyacinth by adding bio enzymes and position wetlands in the river to ensure clean water.

2. **Landscape initiatives** - To ensure a biodiverse campus, university shall focus on planting native species instead of exotic species. Shall make use of medicinal plants that will help in reduction of insects in the campus. The university shall encourage the use of trees with dense foliage to create shaded pathways, parking lots and seating areas. The university shall reduce the lawn pockets and focus on creating functional outdoor areas with less maintenance. Miyawaki concept of small pockets of dense trees to be encouraged. Plant trees with minimum water consumption. Drip irrigation system to be installed, storm water drain channels to be created along the roadside & water retention ponds to be created in the low lying areas for rain water harvesting & beautification.

3. **Green Audit** - University shall conduct Green Audit at University Level to evaluate effect on air, water & soil in the campus to ensure the best environmental sustainability practices. This will be a useful tool to assess universities' strengths & weaknesses to understand efficient use of energy & water resources.

4. **Water Management** - University shall encourage water sub-metering to reduce water consumption by tracking. Use water efficient plumbing fixtures. Promote use of sensor taps with aerators. Maintain leak proof plumbing fixtures. Periodic monitoring & maintenance of plumbing & sanitary fixtures to be done.

5. **Rainwater harvesting** - All the rainwater shall be collected and sent to recharge pits to enhance ground water table through effective rainwater management.

B: Energy:

1. **Grid connected PV Solar System** - University shall try to become self-reliant for electricity by increasing solar generated electricity in near future. The university shall focus on decarbonization to achieve the goal of net zero carbon emissions as prescribed by the government of India. Install Solar streetlights and landscape lights. University shall install PV meters to track and manage energy usage.

2. **Electrical** - Electric vehicle charging stations shall be proposed on the campus to encourage the use of EV. LED lights shall replace the traditional tubes in all buildings gradually. University shall install energy meters to ensure efficient energy usage. University shall design the future buildings such that it receives maximum daylight and ventilation to reduce electricity consumption. Daylight Sensors shall be installed in the common areas. Make use of energy efficient outdoor lighting fixtures.

3. **Energy Audit** - This shall be done frequently to monitor the energy performance. This audit will be helpful to minimize carbon emissions.

4. **Energy Management / Efficiency:** Encourage the use of on-site renewable technologies such as solar energy, wind power, biomass, biogas, etc. University shall encourage the use of energy sub-metering to improve energy performance, and thereby save energy.

C: Environment:

1. **Solid Waste management -** Waste disposal strategy shall be primarily based on 'Reduce, Reuse, Recycle'. Waste shall be segregated at source. Biodegradable waste such as canteen food waste and garden waste shall be converted into organic compost. The minimum use of paper policy shall be implemented, and digital data record shall be followed instead. Restrict the use of PVC flex banners inside and outside the campus, instead make use of alternative biodegradable material for indoor/outdoor advertising. The amount of paper waste created to be recycled on the campus itself. Waste such as Glass, plastic, tin, etc. should be disposed off to the authorized waste dealers. Separate color-coded dustbins to be installed at identified locations. Sanitary napkins incinerators to be placed in all the buildings. Create an ecosystem in the university to collect waste from all the institutions at the central level to reuse, recycle the waste. Create a laboratory for recycling waste. Minimize use of packaged food on the campus.

2. **Liquid Waste management -** Effective working and maintenance of STP shall be monitored. Effluent deposited in the STP to be treated to organic matter. Provision to be made for processing the waste solvent water and reuse it for purposes like landscaping and flushing.

3. **E-waste management** - The university should have an E-waste disposal ecosystem. E-waste should be sold to authorized vendors only.

4. **Clean Air quality -** Promote use of bicycles on the campus. Reduce the heat island effect by minimizing the hardscape areas in the campus. The

university shall encourage the use of public transport systems, carpooling & use of EVs & establish E-charging stations.

Conduct programs like tree-plantation, environmental days, cleanliness drive, plogging, e-waste collection, plastic-free environment, red dot campaign, solid waste management awareness campaign.

5. **Environmental Audit:** There should be an Environmental Audit of the university to identify and direct whether the university is progressing in an environmentally friendly or sustainable way. This will ensure the natural resource management, health & safety of the users & help in reducing the carbon footprint. It will be a good way of creating consciousness amongst the people of the university towards sustainable environmental practices.

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Registrar