

Green Policy and Projection – IIT Mandi

Green Policy

The Indian Institute of Technology (IIT) Mandi is committed to developing and maintaining a sustainable, environmentally responsible, and resource-efficient campus. Situated in the ecologically sensitive Himalayan region, the Institute recognizes its responsibility to conserve natural resources, minimize environmental impact, and promote sustainable development through planning, infrastructure, operations, research, and community participation.

The Institute's Green Policy is guided by the principles of environmental conservation, energy efficiency, climate resilience, resource optimization, and sustainable campus management. The policy aims to integrate environmental sustainability into every aspect of campus planning, construction, operation, and maintenance while complying with the applicable statutory environmental regulations.

The key objectives of the Green Policy are:

- Promote sustainable campus planning and environmentally responsible infrastructure development.
- Preserve the natural ecosystem, biodiversity, and forest cover surrounding the campus.
- Enhance energy efficiency through adoption of renewable energy and energy conservation measures.
- Ensure efficient utilization and conservation of water resources through rainwater harvesting, recycling, and reuse.
- Implement scientific solid waste management, including segregation, recycling, composting, and safe disposal.
- Reduce greenhouse gas emissions and encourage low-carbon campus operations.
- Promote sustainable transportation through pedestrian-friendly infrastructure, electric vehicles, and cycling.
- Increase green cover through plantation drives, landscape development, and biodiversity conservation.
- Create environmental awareness among students, faculty, staff, and visitors through outreach programmes and institutional initiatives.
- Continuously improve environmental performance through periodic monitoring and adoption of best practices.

Green Campus Initiatives

To implement its Green Policy, IIT Mandi has undertaken several initiatives across the campus, including:

- Planned infrastructure development integrated with the natural terrain and ecological landscape.
- Preservation of forest areas and existing vegetation during campus expansion.
- Extensive plantation and landscape development using native species.
- Rainwater harvesting and water conservation measures across the campus.
- Sewage Treatment Plants (STPs) with reuse of treated water for horticulture and landscaping.
- Energy-efficient lighting systems, including large-scale use of LED lighting.
- Installation of rooftop Solar Photovoltaic (PV) systems to promote renewable energy.
- Scientific management of solid waste through segregation, recycling, and composting initiatives.
- Promotion of paperless administration through digital governance and e-office systems.
- Development of pedestrian pathways and internal road networks to reduce vehicular movement within the campus.
- Awareness programmes and environmental campaigns involving students, faculty, staff, and the local community.

Green Projection

IIT Mandi envisions transforming its campus into a model **Green Campus** by adopting innovative, climate-resilient, and sustainable infrastructure practices. Future development of the Institute will continue to align with national sustainability goals and environmental best practices.

The Institute's future roadmap includes:

- Expansion of renewable energy generation through additional rooftop solar installations.
- Enhancement of water recycling capacity and optimization of rainwater harvesting systems.
- Development of a comprehensive waste management ecosystem with zero-waste objectives.
- Strengthening biodiversity conservation through afforestation and ecological restoration initiatives.
- Promotion of electric mobility and development of EV charging infrastructure.
- Adoption of smart energy management and building automation systems.
- Improvement of indoor environmental quality through green building practices.
- Integration of sustainable construction principles in all future infrastructure projects.
- Enhancement of carbon footprint assessment and implementation of carbon reduction strategies.
- Continuous monitoring and improvement of environmental performance through periodic Green Audits and Energy Audits.

The Institute remains committed to creating an environmentally sustainable campus that supports excellence in education, research, innovation, and community well-being while preserving the unique ecological heritage of the Himalayan region.