

## **BEST PRACTICE 2**

**PAVING THE PATH FOR A SUSTAINABLE  
TOMORROW: PROMOTING SOCIAL AND ECONOMIC  
DEVELOPMENT WITHIN THE CARRYING CAPACITY  
OF ECOSYSTEM.**

## **VISION**

To be a world - class university imparting knowledge and values and providing students, an excellent learning experience through research & innovation in the field of Science, Technology, Management and other areas that will meet the aspirations of world community.

## **MISSION**

University stands for academic, professional and ethical empowerment of the youths by using the state-of-the-art technology, time-tested and innovative concepts, excellent infrastructure and internationally acclaimed facilitators.

## MESSAGE FROM HONORABLE VICE CHANCELLOR



At IIMT University, we believe that sustainability is not just a goal but a responsibility we owe to future generations. Our best practice, **"Paving the Path for a Sustainable Tomorrow: Promoting Social and Economic Development within the Carrying Capacity of Ecosystems,"** encapsulates our vision of holistic development that harmonizes human progress with environmental preservation.

In today's world, rapid industrialization and urbanization pose unprecedented challenges to ecosystems, which are the foundation of life on Earth. At IIMT, we are deeply committed to addressing these challenges by fostering a

culture of sustainability across all levels of education and research. This commitment is reflected in our academic curricula, which emphasize interdisciplinary approaches to problem-solving, our research projects that focus on green technologies and sustainable solutions, and our community outreach programs aimed at creating awareness about environmental conservation.

Through our dedicated efforts, we aim to instill in our students the values of ecological responsibility, ethical leadership, and innovative thinking. Our initiatives include sustainable campus practices such as energy conservation, waste management, and water harvesting, alongside programs that encourage entrepreneurship in green technologies and sustainable business models. By aligning our activities with the principles of the United Nations Sustainable Development Goals (SDGs), we seek to contribute meaningfully to global efforts for a sustainable future.

We also believe in empowering our students to become agents of change. By equipping them with the knowledge, skills, and resources to address pressing issues like climate change, biodiversity loss, and social inequities, we are preparing them to be leaders who can drive

positive transformations in society. Our partnerships with industries, governments, and international organizations further strengthen these efforts, providing a platform for innovation and collaboration that respects the carrying capacity of our ecosystems. As we continue on this journey, I urge every member of the IIMT family—students, faculty, and staff—to embrace sustainability as a way of life. Together, we can build a future where development is inclusive, equitable, and environmentally conscious, ensuring a better tomorrow for generations to come.

**Dr. Deepa Sharma**  
Vice Chancellor

## IIMT UNIVERSITY, MEERUT

A. **TITLE OF BEST PRACTICE:** Paving the path for a sustainable tomorrow: Promoting Social and Economic Development within the carrying capacity of Ecosystem.

B. **OBJECTIVES OF THE PRACTICE:** We at IIMTU Believe that the sustainability of our world, the preservation of biodiversity, and the well-being of current and future generations are just a few of the reasons why environmental protection is so important. It is crucial for our planet's overall health and resilience as well as the welfare of both the present and future generations.

Here are some of the main arguments in favour of environmental protection:

1. Human Health
2. Protecting Biodiversity
3. mitigation of Climate Change
4. Sustainability of Resources
5. Financial Gains
6. Ecosystem Services
7. Quality of Life
8. Moral and Ethical Issues
9. Interdependence
10. Strategic Planning

C. **CONTEXT:** IIMT University has a Nine-Fold action plan for the maintenance of its ecosystem in and around the campus. The various aspects are as follows:

1. Environment protection and conservation through sustainable in initiatives.
2. Maintaining a Green campus.
3. Promotion of environment through green initiatives.
4. Maintenance of “No plastic zone”.
5. Maintenance of “No tobacco zone”.

6. Generation of Clean energy
7. Creating a feeling of “Oneness with nature”.
8. Importance of SDG’s in relation to the University.
9. Mapping of university curriculum and ECC with the SDG’s.

#### D. THE PRACTICE:

1. **Preservation of flora and fauna:** IIMT University has always understood the importance of co-habitation of man and nature. Keeping this in view, several green corridors have been developed all cross the campus. A wide range of plants and animals thrive in the campus.
2. **Cutting of trees is prohibited:** The University has a Green Policy that clearly states that cutting of trees is banned inside the campus.
3. **Conservation of Holy Plant “Rudraksh”:** The University has two Medicinal/Herbal gardens in its premises. In Both gardens, Rudraksh tree is planted and cultivated. This plant is a native of Himalayan region and is hence exotic in Meerut region. However, the plant is maintained well ex-situ at IIMTU.
4. **Zero plastic waste:** We try our best to make campus eco-friendly by preventing the use of single-use Plastics at all places such as canteens, mess etc. Use of polybags is also banned in the campus. Instead, we promote the use of steel utensils, paper plates or leaf plates. Plastic straws are also banned.
5. **Green policy:** the University has a well-defined Green Policy that ensures the fulfillment of minimum standards necessary for sustainable development.
6. **Water conservation initiatives:** we at IIMTU believe that water is the most essential element for the sustenance of life and therefore, preserving and conserving all resources of water is our primary objective. We have several measures for the same. These are as follows:

- i. Encouraging people to adopt water-saving equipment and fixtures, such as low-flow toilets, high-efficiency washing machines, and low-flow showerheads.
- ii. Encouraging the early repair of leaks and the installation of drip irrigation systems in gardens and lawns.
- iii. Promoting the use of plants resistant to drought and landscaping strategies that reduce the demand for irrigation.
- iv. Rainwater Collection/Harvesting for groundwater recharge.
- v. Putting in place systems for wastewater treatment and reuse, for things like industrial processes and irrigation of landscaping.
- vi. Graywater irrigation systems that reuse water from sinks, showers, and washing machines
- vii. Supporting effective agricultural irrigation techniques like sprinkler irrigation.
- viii. Making sure that new developments are both environmental and water-efficient by incorporating water conservation ideas into urban planning and development.

**7. Energy conservation initiatives:**

- i. Encouraging the use of LED lights and energy-efficient equipment can dramatically lower the amount of electricity used in households and workplaces. Programmes like Energy Star and others offer standards and certifications for energy-efficient goods.
- ii. Significant energy savings can result from designing and retrofitting buildings to be more energy-efficient. This involves installing energy-efficient windows, enhancing insulation, and installing sophisticated heating, ventilation, and air conditioning (HVAC) systems.
- iii. Making more use of renewable energy resources, such solar electricity.

- iv. We may reduce the amount of energy used for transportation and the emissions it produces by encouraging people to use public transportation, university buses, carpooling, bicycles, and electric or hybrid vehicles.
  - v. People and workers can make a big difference by being educated about energy-saving behaviours like turning off lights and appliances when not in use.
- 8. SDG imbibition and adoption by several departments:** IIMTU has adopted and imbibed all the 17 SDG's into its academia and extra-curricular initiatives through UBA, USR, NCC and NSS related activities.

## **E. Evidences of success:**

### **Paperless Reforms**

At IIMT University, we are dedicated to adopting innovative practices that enhance efficiency, sustainability, and transparency across all functions. One of our key initiatives in this direction is the implementation of a robust ERP system to enable paperless reforms. By leveraging Information and Communication Technology (ICT), we have transformed traditional administrative and academic processes into seamless, digitized operations.

The ERP system integrates all key functions, including admissions, student records, examination management, financial operations, faculty management, and campus communication. This ICT-enabled approach not only reduces dependency on paper but also ensures real-time access to data, improved accuracy, and streamlined workflows. Faculty, students, and administrative staff can now manage tasks such as attendance, grades, fee payments, and course registrations with just a few clicks, significantly enhancing convenience and user experience.

Moreover, the adoption of paperless reforms aligns with our commitment to sustainability by minimizing environmental impact. By reducing paper usage and optimizing resource management, we are contributing to a greener campus and promoting eco-conscious practices among all stakeholders.

This reform is a step forward in embracing the digital era and fostering a culture of innovation, efficiency, and accountability. IIMT University continues to lead by example, ensuring that technology empowers every aspect of its operations while maintaining a sustainable and student-centric approach.

As part of our commitment to paperless reforms, IIMT University has integrated QR codes into various administrative and academic processes. These QR codes serve as an efficient, eco-friendly tool to enable quick access to digital resources, streamline operations, and minimize paper usage across the campus.

## **Environmental Commitment through Comprehensive Audits at IIMT University**

At IIMT University, we uphold our responsibility toward environmental sustainability by regularly conducting Green Audit, Environment Audit, and Energy Audit in collaboration with the esteemed external agency, K K Environment Solution. These comprehensive audits are vital in assessing the environmental impact of our campus operations, ensuring compliance with sustainability standards, and fostering an eco-friendly campus environment.

The Green Audit focuses on evaluating the biodiversity, green cover, and waste management practices within the campus. The Environment Audit examines air and water quality, pollution control measures, and the overall environmental impact of campus activities. The Energy Audit assesses energy consumption patterns, efficiency of electrical systems, and potential areas for adopting renewable energy solutions.

Based on the findings and recommendations of these audits, IIMT University has implemented several initiatives to enhance sustainability, including energy-efficient lighting, waste segregation and recycling, water conservation systems, and increased green cover through plantation drives. The certification issued by K K Environment Solution stands as a testament to our commitment to environmental stewardship and sustainable development.

This certification not only enhances the organization's credibility and trustworthiness among stakeholders but also identifies areas for improvement, ensuring continuous enhancement of efficiency and effectiveness. By obtaining an audit certificate, the organization demonstrates its commitment to accountability, ethical conduct, and sustainable growth, which are essential for long-term success and stakeholder confidence. By integrating these practices into our institutional framework, we not only ensure regulatory compliance but also inspire our students, faculty, and staff to adopt environmentally responsible behaviors, contributing to a greener future.

The Audit Certificate is a crucial document that underscores the integrity and transparency of an organization's financial and operational processes. It serves as an official validation that the entity's records and practices comply with established standards and regulations.



GSTIN : 09AAMFK8554D1ZZ

**KK ENVIRONMENT SOLUTIONS**

(Promise for Healthy Environment)

An ISO 14001:2015 & 9001:2015 Certified Company

AUDIT CERTIFICATE

This is to certify that IIMT University is doing appreciable work in maintaining environment in and around the campus. IIMT university is determined to promote Green Initiatives, making judicious use of solar energy and biogas energy and also determined to preserve environment.

We hereby declare that

**Green Audit**

**Energy Audit**

**Environment Audit**

has been carried out at IIMT University, Meerut for the period between 2022-2023 by the audit team. The system and facilities present in the campus have been documented and verified during audit. All the reports are satisfactory with some suggestions for the future prospects.

  
SIGNATURE



DATE: 20/12/2022



GREEN AUDIT



ENERGY AUDIT



ENVIRONMENT AUDIT

**QR CODES FOR DIFFERENT AUDITS**





GPS Map Camera

Google



GPS Map Camera

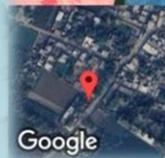
Google



Kastla, Uttar Pradesh, India  
2R7J+JPH, near N J Inter College, Kastla, Kastala Shamshernagar, Uttar Pradesh 250001, India  
Lat 29.013961°  
Long 77.831459°  
16/04/24 12:59 PM GMT +05:30

Google

GPS Map Camera



Kastla, Uttar Pradesh, India  
2R7J+JPH, near N J Inter College, Kastla, Kastala Shamshernagar, Uttar Pradesh 250001, India  
Lat 29.013964°  
Long 77.831461°  
16/04/24 01:00 PM GMT +05:30

Google

GPS Map Camera





Meerut, Uttar Pradesh, India  
IIIMT UNIVERSITY, O Pocket, Ganga Nagar, Meerut, Uttar Pradesh 250001, India  
Lat 28.998639°  
Long 77.762227°  
23/04/24 12:06 PM GMT +05:30



Meerut, Uttar Pradesh, India  
M-8, M-Pocket, Pocket M, Phase 3, Ganga Nagar, Meerut, Uttar Pradesh 250001, India  
Lat 28.999022°  
Long 77.763645°  
23/04/24 12:14 PM GMT +05:30



## Adoption of Sustainable Development Solutions (SDS) by Various Schools and Departments at IIMT University

At IIMT University, different schools and departments have adopted various Sustainable Development Solutions (SDS) as part of our commitment to creating a sustainable future. Each department integrates these solutions into their curriculum, research, and outreach activities, working actively toward achieving the United Nations Sustainable Development Goals (SDGs). Through their dedicated efforts, we aim to ensure that both social and economic development progress within the carrying capacity of ecosystems.

The School of Life Science and Technology at IIMT University has wholeheartedly adopted SDG 15: Life on Land as a key focus area in its academic and outreach activities. The department is dedicated to promoting the conservation and sustainable use of terrestrial ecosystems, halting biodiversity loss, and protecting vital ecosystems for future generations.

To fulfill the objectives of SDG 15, the School of Life Science and Technology has implemented several initiatives that include various activities conducted.



**SCHOOL OF LIFE SCIENCE AND TECHNOLOGY**

**G20** **IIMT UNIVERSITY MEERUT** **UGC Approved**

Department of Microbiology is organizing  
A competition

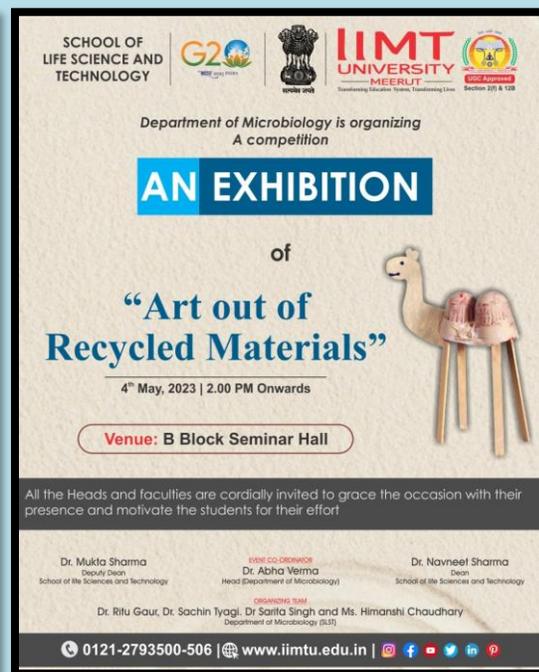
“Art out of Recycled Materials”

**EARTH DAY**  
on occasion of  
World Earth Day  
"Invest in Our Planet"

Piece of art is to be submitted upto 29<sup>th</sup> April, 2023

Dr. Mukta Sharma, Deputy Dean, School of the Sciences and Technology  
Dr. Navneet Sharma, Dean, School of the Sciences and Technology  
Dr. Abha Verma, Head (Department of Microbiology)

0121-2793500-506 | www.iimtu.edu.in



**SCHOOL OF LIFE SCIENCE AND TECHNOLOGY** **G20** **IIMT UNIVERSITY MEERUT** **UGC Approved**

Department of Microbiology is organizing  
A competition

**AN EXHIBITION**

of  
“Art out of Recycled Materials”

4<sup>th</sup> May, 2023 | 2.00 PM Onwards

Venue: B Block Seminar Hall

All the Heads and faculties are cordially invited to grace the occasion with their presence and motivate the students for their effort

Dr. Mukta Sharma, Deputy Dean, School of the Sciences and Technology  
Dr. Navneet Sharma, Dean, School of the Sciences and Technology  
Dr. Abha Verma, Head (Department of Microbiology)  
Dr. Ritu Gaut, Dr. Sachin Tyagi, Dr. Sarita Singh and Ms. Himanshi Chaudhary, Department of Microbiology (DSI)

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GPS Map Camera

Meerut, Uttar Pradesh, India  
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250001, India  
Lat 28.99711° Long 77.761257°

Google

## **QR Coding and Marking of Flora on Campus: Promoting Environmental Awareness and Biodiversity Conservation**

As part of our commitment to SDG, IIMT University has implemented an innovative initiative involving QR coding and marking of the campus flora to promote biodiversity conservation and environmental awareness. Each significant tree or plant species on campus is marked with a unique QR code, which, when scanned, provides detailed information about the plant, including its scientific and common names, habitat, ecological importance, medicinal or economic value, and conservation status. This initiative serves as an educational tool, offering students, faculty, and visitors a chance to learn more about the diverse plant species on campus.

The QR codes are linked to interactive platforms, such as mobile apps or web portals, where users can access additional resources like videos, research papers, and quizzes on plant biology and conservation. This makes the learning experience more engaging and accessible. By marking the flora across the campus, the university has created an immersive biodiversity trail that encourages students and visitors to explore the different plant species, raising awareness about the importance of preserving biodiversity and fostering a deeper connection to nature.

The initiative also offers students and the wider community the opportunity to actively contribute by researching and identifying plants, helping to expand or update the information provided in the QR codes. This fosters a sense of responsibility toward the environment and encourages participation in conservation efforts. Furthermore, the QR codes help track the health and growth of various plant species over time, providing valuable data for research purposes and monitoring the effectiveness of the conservation measures in place.

In promoting sustainable practices, this initiative encourages the planting of native species, reducing deforestation, and protecting endangered plants, while also creating an environmentally conscious campus. Through QR coding and marking the flora, IIMT University not only showcases the diversity of plant life but also deepens environmental education and promotes sustainability and eco-conscious behaviors within the campus and beyond.



**Amla Tree**



**Ashoka Tree**



**Banana Leaf Fig**



**Banyan Tree**



**Indian bay Leaf**



**Buddha Tree**

**QR Codes of various tree of economic importance within the campus**



**QR Codes and Numbering assigned to the trees in campus**

## **Biodiversity richness of the campus**

The biodiversity richness of the IIMT University campus is a reflection of its commitment to environmental conservation and sustainable development. The campus, with its diverse range of plant species, plays a significant role in supporting local ecosystems and contributing to the overall ecological health of the region. From towering trees to small shrubs and flowering plants, the flora of the campus provides essential habitats for various birds, insects, and other wildlife, fostering a dynamic and interconnected environment.

This biodiversity richness is not only a vital component of the campus's aesthetic appeal but also serves as a living laboratory for students, offering them firsthand opportunities to study various species and understand their ecological roles. The variety of plant species present on campus, ranging from native to medicinal plants, showcases the university's dedication to preserving local flora while also introducing students to a wide array of plant life.

The flora of the campus supports the broader goals of sustainability, with many species contributing to the reduction of carbon footprints through natural carbon sequestration. In addition, the campus's biodiversity richness enhances soil quality, water retention, and overall resilience to climate change, making it an essential part of the university's efforts to create an environmentally responsible and ecologically balanced learning environment. Through initiatives like QR coding and active participation in conservation efforts, IIMT University continuously strives to protect and nurture this biodiversity, further enriching the campus ecosystem for current and future generations.

# LIMT UNIVERSITY

— MEERUT (U.P.) —  
Transforming Education System, Transforming Lives



## Cohabitation on the IIMT University Campus

The concept of cohabitation at **IIMT University** extends beyond the physical presence of students, faculty, and staff, encompassing a harmonious interaction between human beings and the natural environment. The campus is home to a rich variety of flora and fauna, creating a space where biodiversity thrives alongside academic, cultural, and social activities. This cohabitation encourages a deeper connection to nature, fostering a sense of responsibility among the university community to preserve and protect the environment.

Students, faculty, and staff coexist in an ecosystem where the campus's green spaces, trees, and plants are integral to the daily experience, offering a peaceful, serene environment for learning and personal growth. The presence of diverse plant species, birds, insects, and other wildlife contributes to the campus's vibrant biodiversity, turning the university grounds into an educational and experiential environment.

This natural cohabitation is not only about the physical space but also the shared commitment to sustainability and ecological balance. The university's green initiatives, such as tree plantation drives, eco-friendly infrastructure, and conservation programs, reinforce the idea that human and environmental well-being are interconnected. Through these efforts, IIMT University fosters an atmosphere where both the human population and the natural world coexist, thrive, and contribute to each other's development. The focus on environmental stewardship, combined with academic excellence, ensures that this cohabitation promotes a sustainable future for all.





Meerut, UP, India  
Kila Road, Ganga Nagar, Meerut, 250001, UP, India  
Lat 28.994444, Long 77.761045  
06/23/2023 01:01 PM GMT+05:30  
IIMTUN - O Pocket Gangnagar



**GREEN LIBRARY**



IIMT UNIVERSITY  
MEERUT (U.P.)

Meerut, Uttar Pradesh, India  
XGX6+8B9, O Pocket, Ganga Nagar, Meerut, Uttar Pradesh 250001, India  
Lat 28.998745°  
Long 77.760976°  
01/08/23 04:58 PM GMT +05:30  
Note :IIMT UNIVERSITY O Pocket Ganganagar, Meerut  
11.41 km/h 228 m



Meerut, UP, India  
Kila Road, Ganga Nagar, Meerut, 250001, UP, India  
Lat 28.994359, Long 77.761006  
06/23/2023 12:59 PM GMT+05:30  
IIMTUN - O Pocket Gangnagar

**Problems encountered:**

- Habitat degradation is one of the most serious dangers to ecosystems. This includes deforestation, urbanisation, agriculture, and infrastructural development, all of which can result in the extinction of many species. Increasing population pressurizes and furthers habitat destruction.
- Interconnectedness of Ecosystems
- Many conservation attempts are thwarted due to a lack of funds, labour, and resources. This can make implementing good conservation efforts difficult.
- A lack of public awareness and comprehension of the importance of ecosystems and conservation can stymie conservation efforts.
- Overharvesting of natural resources.
- Invasive species can damage native ecosystems by outcompeting native species, spreading diseases, and disrupting the ecosystem's natural balance.

Conserve the Ecosystem  
and adopt SDG's



*Sustainable  
tomorrow*

Paperless reforms

Recycle

No plastic



**PAVING THE PATH FOR A SUSTAINABLE  
TOMORROW: PROMOTING SOCIAL AND  
ECONOMIC DEVELOPMENT WITHIN THE  
CARRYING CAPACITY OF ECOSYSTEM.**