MEDHAVI SKILLS UNIVERSITY
Skill • Empower • Liberate

REPORT ON
SUSTAINABLE DEVELOPMENT





GOAL 15

Introduction

Medhavi Skills University is committed to promoting environmental sustainability, biodiversity conservation, and the responsible management of natural resources in alignment with **SDG 15: Life on Land**. The University recognizes the importance of protecting terrestrial ecosystems and actively encourages initiatives that support environmental awareness, green campus development, sustainable land use, and ecological stewardship.

Through educational programmes, plantation drives, green campus initiatives, sustainable food cultivation practices, and community engagement activities, the University fosters a culture of environmental responsibility among students, faculty, and staff. These efforts contribute to the conservation of biodiversity, enhancement of green spaces, responsible resource utilization, and the preservation of ecosystems for future generations.

By integrating sustainability into institutional practices and encouraging active participation in environmental initiatives, Medhavi Skills University strives to create a positive impact on the environment while supporting local and global efforts toward ecological resilience and sustainable development.

List of Publications

The publications listed below demonstrate research contributions by faculty members of Medhavi Skills University (MSU) in areas related to medicinal plants, phytochemicals, pharmacological research, and antimicrobial studies. These areas explore the potential of plant-based resources and their applications in healthcare and scientific research.

The paper Antidiabetic Potential of Eastern Himalayan Plants: A Gut Microbiome-Centered Pharmacological Perspective, authored by Divya Pradhan from the Pharmacy Department, examines the potential of Eastern Himalayan plants in relation to diabetes and the gut microbiome. The review on Moringa oleifera, authored by Debasrita Banerjee from BND, explores its therapeutic potential in hypertension and associated symptoms. Both publications are relevant to research on medicinal plants and their potential health applications.

Further contributions include two publications by Dr. Anupama Moirangthem from the Medical Laboratory Technology (MLT) department. The study on Dichrocephala integrifolia investigates its potential to inhibit extended-spectrum β-lactamases using in vitro and computational approaches. Research on Andrographis paniculata examines potential inhibitors derived from its bioactive compounds using in silico and in vitro methods. These studies contribute to scientific investigation of plant-derived compounds and their potential antimicrobial applications.

Title of Paper	Name of the Author	Name of Journal	Web Link to Paper
Antidiabetic Potential of Eastern Himalayan Plants: A Gut Microbiome-Centered Pharmacological Perspective	Divya Pradhan	International Journal of Enhanced Research in Science, Technology & Engineering	https://www.erpublications.com/International-Journal-of-Enhanced-Research-In-Science-Technology-Engineering-IJERSTE-1-dtl.htm
Therapeutic Potential of Moringa oleifera in the Treatment of Hypertension and Its Associated Symptoms: A Systematic Literature Review	Debasrita Banerjee	Annals of Agri Bio Research	https://agribiop.com/therapeutic-potential-of-moringa-oleifera-in-the-treatment-of-hypertension-and-its-associated-symptoms-a-systematic-literature-review/
Extended-spectrum β-lactamase inhibitory potential of Dichrocephala integrifolia: an in vitro and computational studies.	Dr. Anupama Moirangthem	Natural Product Research	Extended-spectrum β - lactamase inhibitory potential of Dichrocephala integrifolia: an in vitro and computational studies: Natural Product Research: Vol 40 , No 6 - Get Access
Identification of potential inhibitors from Andrographis paniculata bioactive compounds against extended-spectrum β-lactamases through in silico and in vitro approaches. Research Journal of Biotechnology	Dr. Anupama Moirangthem	Research Journal of Biotechnology	publication_file_d165e64926a1

Events about Sustainable Use of Land

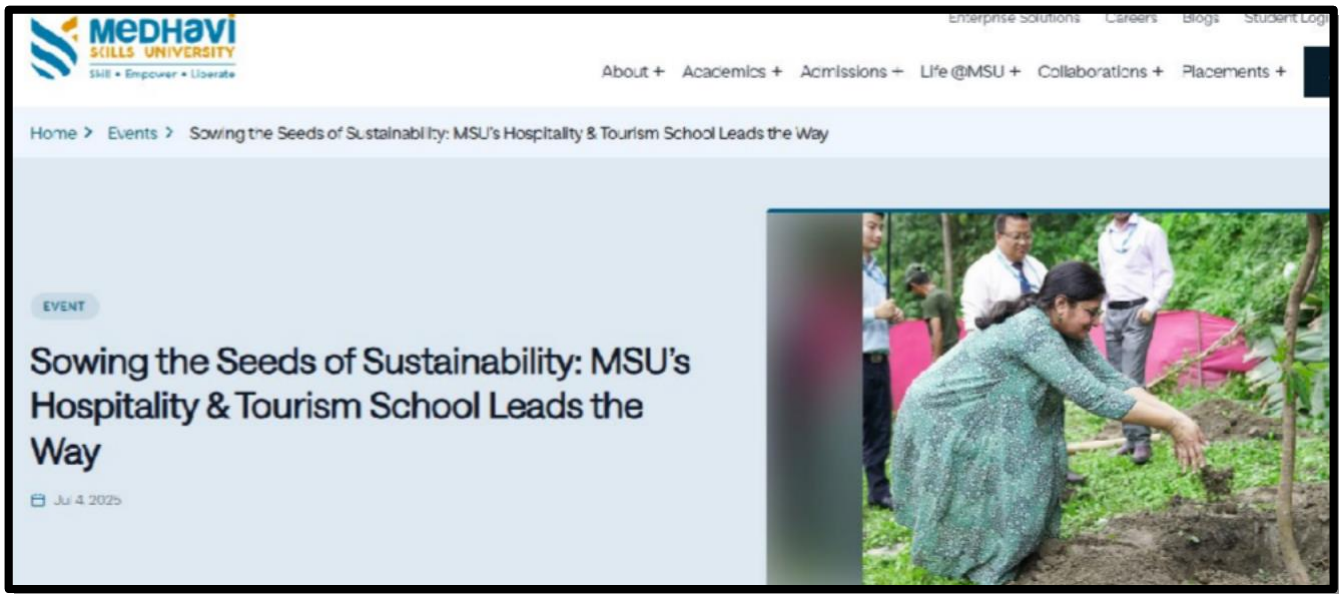
Medhavi Skills University (MSU) undertakes environmental awareness and plantation activities that encourage students, faculty members and the wider university community to contribute towards environmental sustainability. These initiatives promote responsible environmental practices, the importance of green spaces and collective participation in protecting natural resources.

As part of the celebration of World Environment Day on 4 July 2025, the School of Hospitality & Tourism organised a plantation drive on campus. Students and faculty members participated in the activity, which aimed to increase campus greenery and strengthen awareness of ecological responsibility. The initiative provided a practical opportunity for the university community to translate environmental awareness into action.

MSU also observed World Environment Day on 5 June 2026 through a series of sustainability activities. The NSS Club conducted a plantation drive under the “Ek Ped Maa Ke Naam” initiative, while the School of Humanities organised a Model United Nations activity in which participants

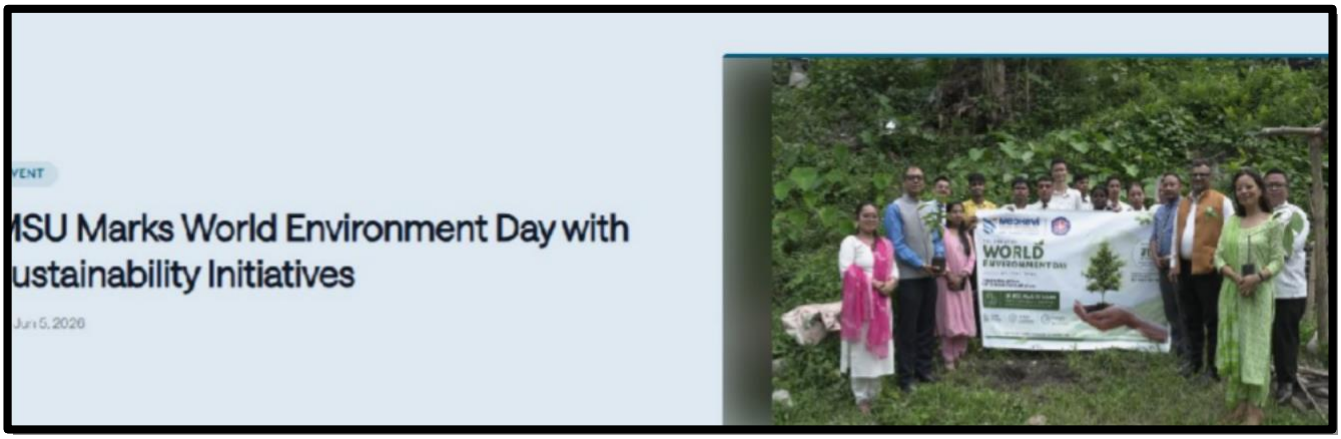
explored environmental issues and discussed sustainable solutions. These activities encouraged environmental awareness, participation and a shared sense of responsibility towards nature.

S. No.	Event name	Date	Relevance to SDG 15	Evidence
1	Sowing the Seeds of Sustainability: MSU's Hospitality & Tourism School Leads the Way	4 July 2025	Campus plantation and environmental awareness	Event page
2	MSU Marks World Environment Day with Sustainability Initiatives	5 June 2026	NSS plantation drive and environmental awareness	Event page
3	Making Every Employee Milestone Count Towards a Greener Future	23 July 2026	Tree planting, habitat conservation and biodiversity-related projects	Event page



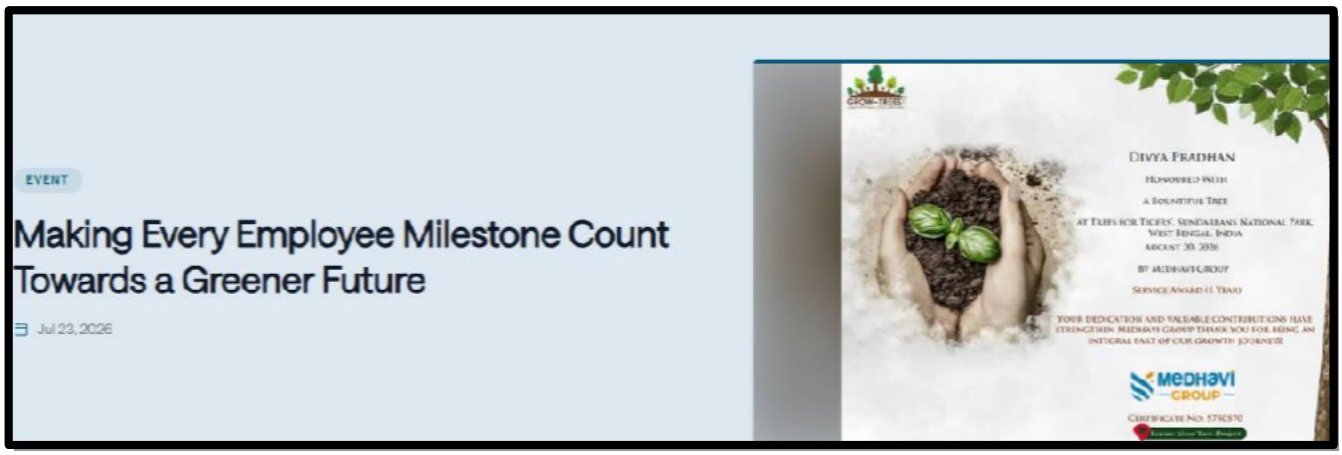
Sowing the Seeds of Sustainability: MSU's Hospitality & Tourism School Leads the Way

In addition, Medhavi's employee milestone tree-planting initiative, undertaken in partnership with Grow-Trees, connects employee celebrations with tree planting and ecological projects. The published initiative identifies projects associated with the Sundarbans, Gnathang Valley and Kashmir, with stated objectives relating to afforestation, habitat conservation and biodiversity.



[MSU Marks World Environment Day with Sustainability Initiatives]

Collectively, these activities provide evidence of plantation drives and environmental awareness initiatives relevant to SDG 15 – Life on Land. They demonstrate efforts to encourage greener surroundings and awareness of ecosystem protection.

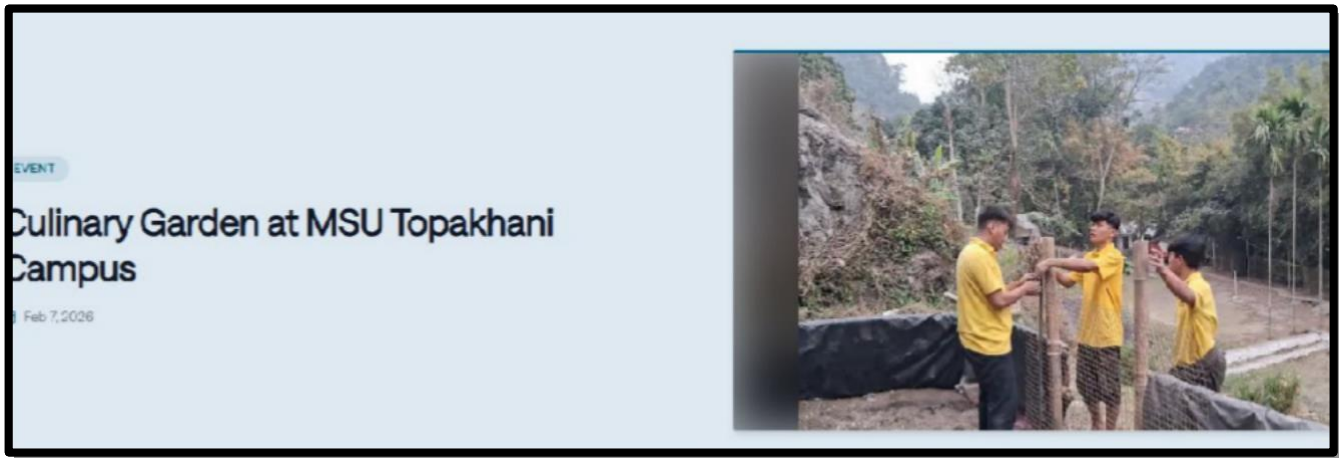


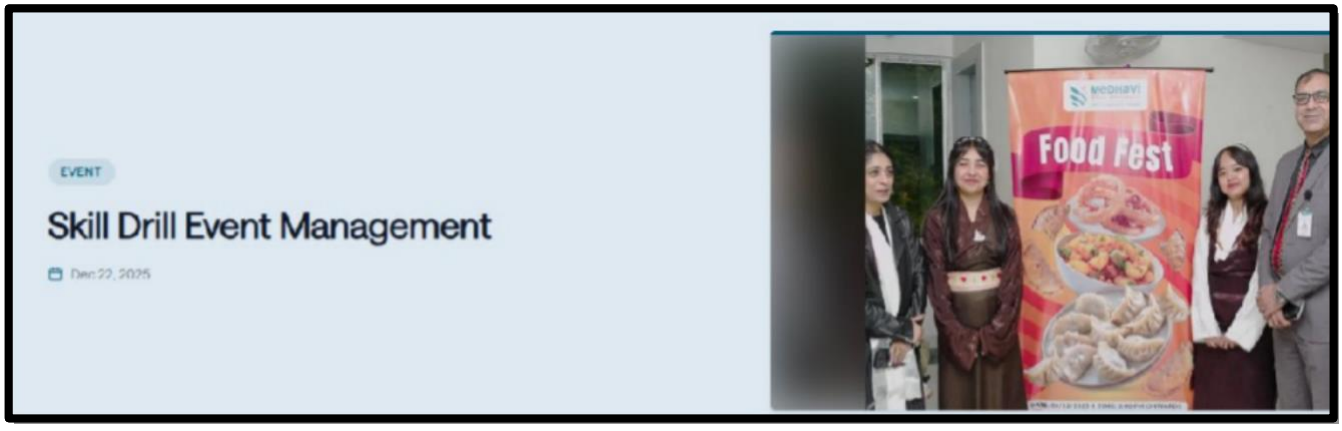
[Making Every Employee Milestone Count Towards a Greener Future]

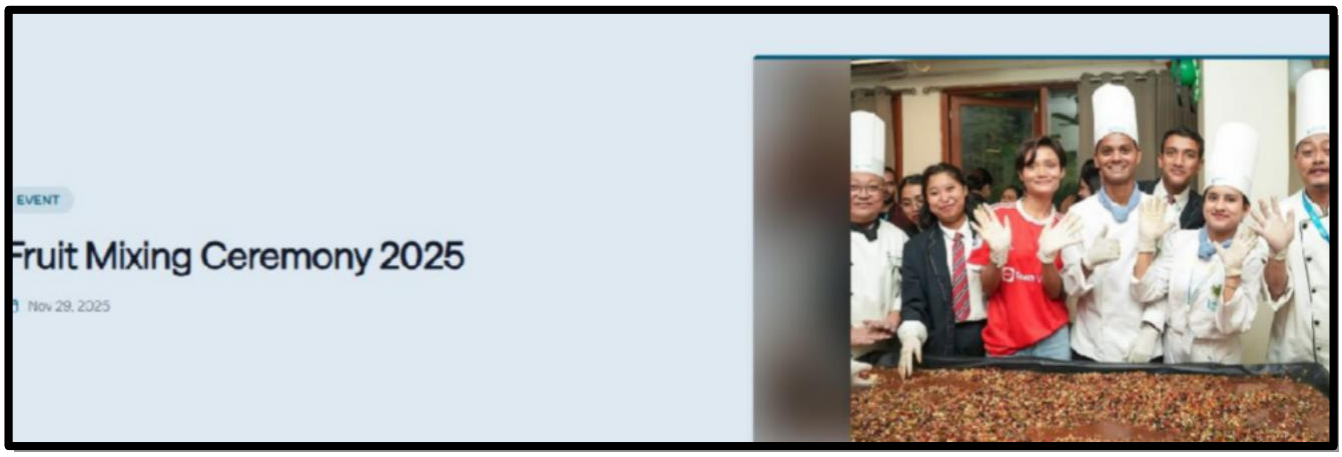
Sustainably Farmed Food on Campus

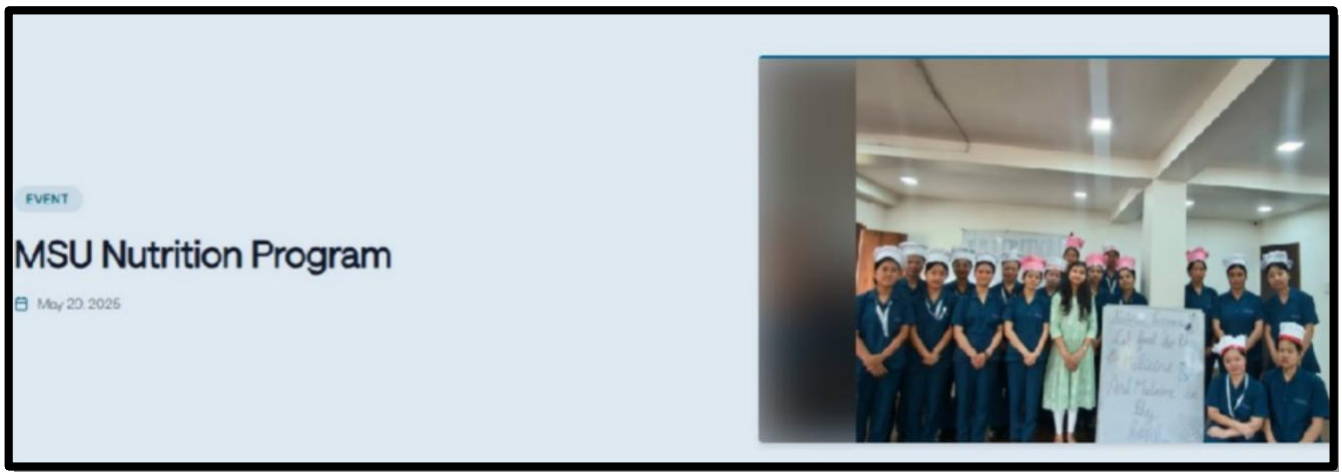
Medhavi Skills University supports **sustainably farmed food on campus** through experiential learning initiatives that connect students with sustainable food production and consumption practices. The University's **Culinary Garden** enables students to cultivate herbs and vegetables while learning about sustainable agriculture, ingredient sourcing, and farm-to-table food systems. Complementing this initiative, nutrition awareness programmes and food-related practical learning activities promote healthy eating habits, responsible food consumption, and environmental stewardship. These efforts contribute to sustainable campus food systems and support the goals of **SDG 15: Life on Land**.

Event/Initiative	Description	Link
Culinary Garden at MSU Topakhani Campus	The School of Hospitality established a Culinary Garden where students cultivate herbs and vegetables and learn about fresh produce, sustainable practices, ingredient sourcing, and farm-to-table concepts.	View Event
MSU Nutrition Program – Cook Smart, Eat Well	Nursing students conducted nutrition awareness and smart cooking sessions promoting healthy and responsible food choices.	View Event
Skill Drill Event Management – Food Fest	Students showcased culinary skills through a food festival, emphasizing practical learning in food preparation and service.	View Event
Fruit Mixing Ceremony 2025	Hospitality & Tourism students organized a food-based cultural event celebrating culinary traditions and food engagement.	View Event









Maintain and Extend Current Ecosystems' Biodiversity

Medhavi Skills University is committed to maintaining and enhancing campus biodiversity through the preservation of green spaces, tree plantation initiatives, and environmentally responsible campus management practices. The University encourages the protection of existing ecosystems by maintaining green areas, supporting plant diversity, and fostering environmental awareness among students and staff. Through sustainable landscaping and conservation-oriented activities, the institution contributes to habitat enhancement, ecological balance, and the long-term sustainability of the campus environment.

The University's efforts focus on preserving natural vegetation, increasing green cover, promoting native plant species where feasible, and creating a campus environment that supports biodiversity and ecological resilience. These initiatives help strengthen local ecosystems, improve environmental quality, and support the objectives of **SDG 15: Life on Land**.

Key Biodiversity Initiatives

- Conservation and maintenance of campus green spaces.
- Tree plantation and green cover enhancement activities.
- Protection and nurturing of existing plant biodiversity.

- Promotion of environmental awareness and ecological stewardship.
- Sustainable campus landscaping and habitat-friendly practices.
- Support for biodiversity conservation through institutional environmental initiatives.

Educational Programmes on Ecosystems

Medhavi Skills University promotes ecosystem education through initiatives that encourage understanding of plant biodiversity, sustainable land management, and environmental conservation. Activities such as the Culinary Garden at MSU Topakhani Campus provide hands-on exposure to sustainable cultivation practices and the importance of plant resources. Tree plantation drives and environmental awareness programmes further educate students about the conservation of local flora and fauna, ecosystem restoration, and biodiversity protection. Through these initiatives, the University fosters environmental stewardship and supports the objectives of **SDG 15: Life on Land**

Activity / Programme	Relevance to Ecosystems
Culinary Garden at MSU Topakhani Campus	Students cultivate herbs and vegetables while learning sustainable agriculture, plant biodiversity, soil health, and responsible resource management.
Tree Plantation and Green Campus Initiatives	Plantation drives and green campus activities promote biodiversity conservation, carbon sequestration, and ecosystem restoration.
Environmental Awareness and Nature Conservation Campaigns	Awareness programmes educating students about local flora, fauna, biodiversity conservation, and sustainable environmental practices.

Sustainable Management of Land for Agriculture (Educational Outreach)

Medhavi Skills University promotes sustainable management of land for agriculture through the Culinary Garden at MSU Topakhani Campus, an experiential learning initiative introduced by the School of Hospitality. The programme educates students on **soil care, sustainable agriculture, responsible ingredient sourcing, and farm-to-table food systems** by involving them directly in the cultivation of herbs and vegetables. Through hands-on participation, students develop an understanding of sustainable land use, environmental stewardship, and responsible agricultural practices. The initiative also strengthens awareness of resource conservation and sustainable food production, contributing to the objectives of **SDG 15: Life on Land**.

Programme Materials / Learning Outcomes

- Herb and vegetable cultivation practices.
- Sustainable farming and ingredient sourcing concepts.

- Farm-to-table food production awareness.
- Environmental responsibility and resource conservation.
- Practical participation by students in cultivation activities.

Area	Evidence from Activity
Soil Care	Students learn the importance of maintaining healthy soil for growing herbs and vegetables through hands-on cultivation activities. [msu.edu.in]
Sustainable Agriculture	The Culinary Garden familiarizes students with sustainable growing practices and responsible food production systems.
Land Conservation	The initiative utilizes campus green space for productive cultivation and promotes awareness of responsible land use.
Responsible Agricultural Practices	Students gain practical exposure to ingredient sourcing, cultivation methods, and farm-to-table concepts integral to sustainable food systems.



Culinary Garden at MSU Topakhani Campus

Sustainable Use, Conservation and Restoration of Land (Policy)

Include an approved policy or documented procedure covering conservation, restoration, and sustainable use of terrestrial ecosystems relevant to the University. Record approval/review dates and provide the public or internal evidence reference.

Monitoring IUCN and Other Conservation Species (Policies)

Document any policy or procedure for identifying, monitoring, and protecting threatened or nationally protected species whose habitats may be affected by University operations. Do not claim a species-monitoring programme without records.

Local Biodiversity Included in Planning and Development

Medhavi Skills University recognizes the importance of biodiversity conservation in campus planning and development. The University strives to maintain and enhance green spaces, support tree plantation activities, and encourage environmentally responsible practices that contribute to the protection of local flora and ecological balance. Through sustainable campus development, landscaping, and conservation-oriented initiatives, the institution promotes a healthy environment that supports biodiversity and ecological resilience.

The University integrates green infrastructure and environmental considerations into its campus environment by maintaining vegetation cover, encouraging native plant growth where feasible, and fostering awareness among students and staff regarding biodiversity conservation. These efforts contribute to habitat enhancement, environmental sustainability, and the long-term protection of natural resources.

Key Initiatives

- Maintenance and enhancement of campus green spaces.
- Tree plantation and green cover development activities.
- Promotion of biodiversity conservation and environmental awareness.
- Sustainable landscaping and habitat-friendly campus practices.
- Responsible management of natural resources and vegetation.
- Encouragement of community participation in environmental stewardship.

Alien Species Impact Reduction (Policies)

Document any policy or practice to identify and reduce the impact of alien/invasive species on campus, with supporting maintenance records or action reports.

Collaboration for Shared Land Ecosystems

Medhavi Skills University collaborates with external organizations and stakeholders to support environmental sustainability, ecosystem conservation, and biodiversity enhancement. Through partnerships such as the collaboration with Grow-Trees, the University contributes to tree plantation and green cover development, helping strengthen ecosystem resilience and environmental stewardship. The University also promotes climate and environmental awareness through sustainability-focused initiatives that encourage collective action toward protecting natural resources and ecosystems. These collaborative efforts demonstrate the institution's commitment to **SDG 15: Life on Land** and responsible environmental management.

Partner / Collaboration	Nature of Collaboration	SDG 15 Relevance	Evidence
Grow-Trees	Tree plantation initiative linked to employee milestones. Every significant employee milestone is celebrated by planting a tree.	Supports afforestation, green cover enhancement, ecosystem restoration, and biodiversity conservation.	Making Every Employee Milestone Count Towards a Greener Future
Earth Day Climate Action Initiative	Awareness initiative encouraging sustainable practices and environmental responsibility.	Promotes ecosystem conservation and environmental stewardship.	Earth Day Inspires Climate Action and a Greener Tomorrow

Policy on Plastic Waste Reduction

Include an approved policy or documented procedure to reduce plastic waste on campus, its approval/review date, implementation records, and public evidence where available.

Policy on Hazardous Waste Disposal

Document the policy, process, or practice for handling and disposing of hazardous materials, with applicable authorisations, agreements, manifests, training records, and disposal certificates.

"Protecting nature means protecting our own future. Medhavi Skills University inspires learners to respect biodiversity, conserve natural resources, support greener practices, and understand their responsibility in preserving forests, wildlife, and healthy ecosystems for generations to come."

Medhavi Skills University

www.msu.edu.in

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