Model Making Competition 2025,

Organized by

Department of Geography, Asutosh College

The Geography Department of Asutosh College organized an innovative model-making competition titled "Sustainable Solutions for Changing Earth" on May 15, involving active participation from undergraduate and postgraduate students. The competition addressed diverse contemporary sustainability issues, significantly aligning with India's renewed focus on achieving the Sustainable Development Goals (SDGs). The models were evaluated by highly qualified technical panels from various fields, ensuring rigorous assessment and feedback. The principal of the institution, Dr. Manas Kabi, provided his consistent support and encouragement to these innovative student-led ventures.

Semester 2 undergraduate students presented "Floating Sustainable Habitat: A Solution for Changing Earth," proposing adaptable, resilient living environments ideal for flood-prone and submerged areas , addressing climate-induced challenges increasingly faced in India. The project highlighted practical, sustainable solutions enhancing community resilience against flooding.

Another Semester 2 undergraduate project, "Solution for Breathing Earth through Sustainable Energy," emphasized renewable energy integration to combat severe air pollution in Indian cities. This model addressed India's urgent need for cleaner air, promoting healthier, more sustainable urban environments.

Semester 2 undergraduates also presented "Nav Bharat: Reimagining Urban Sustainability," exploring innovative urban planning strategies essential for managing India's rapidly growing urban areas sustainably. This project highlighted the importance of environmentally responsible urban development.

Semester 4 undergraduate students from Group 1 designed "ECOVERSE: Where Every Stitch Shapes a Sustainable Future," dealing with reduction of regional environmental impacts by advocating sustainable sourcing from eco-friendly local resources.

Semester 4, Group 2's "TerraVerde: A Geographer's Vision of a Sustainable City" integrated geographical insights with sustainable urban planning. The model focused on practical solutions for urban management, directly addressing India's urbanization pressures through innovative spatial planning.

Semester 4, Group 3 introduced "SUSTAINAVISION," emphasizing forward-thinking sustainability solutions. This model highlighted critical strategies addressing India's long-term environmental sustainability and developmental challenges through visionary, integrated planning.

Semester 6 undergraduate students presented "Sustainable Rainwater Harvesting Techniques for Future Water Security," addressing India's significant water scarcity issues. This project promoted efficient resource management and water conservation practices essential for future water sustainability.

Semester 6 also introduced "Wind Energy Integration as Renewable Future Power Source," aligning directly with India's renewable energy objectives. It highlighted practical and scalable renewable energy solutions necessary to reduce fossil fuel dependence.

"Advanced Wastewater Treatment Technologies for Sustainable Reuse," another Semester 6 project, demonstrated innovative wastewater management methods essential for India's environmental sustainability. This model proposed solutions to reuse wastewater efficiently, addressing sanitation and water scarcity challenges.

Additionally, Semester 6 undergraduates highlighted "Hydropower Generation for Long-term Renewable Energy Sustainability," promoting the role of renewable hydropower in India's energy landscape, emphasizing sustainable, environmentally friendly energy production.

Semester 2 postgraduate students presented "Sustainable Waste Transformation through Circular Economy in Topsia, Kolkata," addressing India's critical waste management challenges. The project proposed sustainable, economically viable waste management solutions directly benefiting urban environmental health.

Postgraduate students also showcased "Flood-Resilient Kolkata through Sustainable Sponge City Designs," offering practical solutions to mitigate urban flooding in Kolkata. This model demonstrated innovative urban resilience strategies vital for sustainable environmental management in Indian cities.

Each model embodied environmental consciousness, guided by the 4-R strategy: Reduce, Reuse, Recycle, and Recover. Participants actively involved attendees through live demonstrations, interactive simulations, and informative visual presentations, effectively translating complex sustainability concepts into accessible knowledge, significantly enhancing community engagement and awareness.

The competition results were as follows: First prize was awarded to the model "Circular Economy as Sustainable Solution to Kolkata Garden Reach Area," the second prize to "Nav Bharat: Reimagining Urban Sustainability," and the third prize went to the model "Kolkata as a Sponge City."

Circular Economy as Sustainable Solution to Kolkata Garden Reach Area: 1st position

Nav Bharat: Reimagining Urban Sustainability: 2nd position

Flood-Resilient Kolkata through Sustainable Sponge City Designs: 3rd position

This competition highlighted the transformative role geography education plays, transitioning from traditional methodologies towards comprehensive, interdisciplinary approaches. Geography studies at Asutosh College emphasized practical skills and global environmental awareness, fostering innovative and real-world applications.

Asutosh College continues its legacy as a leading institution, promoting student-driven sustainability initiatives. Events like this competition underline the college's commitment to nurturing informed, proactive students ready to contribute meaningfully to India's journey towards environmental sustainability and socio-economic advancement.