University : Karunya Institute of Technology and Sciences
Country : India
Web Address : www.karunya.edu

[6] Education and Research (ED)

[6.26] Impact of Education and Research programs in supporting the Sustainable Development Goals (SDGs)

Karunya Institute of Technology and Sciences (KITS) has undertaken a wide range of education and research programs that contribute significantly to the achievement of the 17 Sustainable Development Goals (SDGs). These initiatives reflect the university's strong commitment to embedding sustainability across all facets of teaching, learning, research, innovation, and community engagement, in alignment with its mission of "Transforming Lives through Education, Research, and Service."

Key programs and initiatives include:

- **Integration of sustainability themes** across the curriculum in diverse disciplines such as environmental engineering, agricultural sciences, food processing technology, biotechnology, and management studies.
- **Development of interdisciplinary courses and programs** focused on climate action, renewable energy systems, waste management, circular economy, and sustainable technologies.
- **Establishment of specialized research centers and laboratories**, including the Centre for Water Management, Renewable Energy Research Facility, and Agricultural Innovation Labs, addressing critical issues such as clean energy, water security, and sustainable food systems.
- **Publication of sustainability-related research outputs** annually through peer-reviewed journals, conference papers, patents, and innovation projects led by faculty and students.
- **Provision of scholarships and research grants** that encourage student-led innovation and capstone projects targeting sustainability challenges at the local and global levels.
- **Community-oriented learning and participatory action research** in collaboration with local communities, industries, and NGOs to promote sustainable livelihoods and environmental resilience.
- **Organization of conferences, workshops, expert lectures, and summer schools** on SDG-related topics to foster interdisciplinary collaboration and knowledge dissemination.
- **Implementation of environmental literacy and awareness campaigns** across campus to nurture a culture of ecological responsibility among students and staff.

- **Promotion of green campus initiatives and living laboratories**, such as solar power installations, waste recycling units, water harvesting systems, and organic farming practices.
- **Collaboration with national and international networks** to strengthen research partnerships and share best practices in education for sustainable development.

These initiatives directly support **SDGs 3, 4, 5, 6, 7, 9, 11, 12, 13, 15, and 17**, and contribute indirectly to the remaining goals through their broad societal and environmental impact, including:

- **SDG 3 –** Advancing public health and well-being through applied biomedical and environmental research.
- **SDG 4 –** Delivering quality education that integrates sustainability principles across all disciplines.
- **SDG 5 –** Promoting gender equality and empowering women through inclusive academic opportunities.
- **SDG 6 –** Strengthening water research, conservation, and sustainable infrastructure.
- **SDG 7 –** Driving clean and affordable energy innovations through research and technology. **SDG 9 –** Supporting sustainable industry and innovation through green technology development.
- **SDG 11 –** Contributing to sustainable urban and rural development through applied engineering solutions.
- **SDG 12 –** Encouraging responsible consumption and production practices on and off campus.
- **SDG 13 –** Promoting climate change mitigation and adaptation strategies through education and awareness.
- **SDG 15 –** Protecting terrestrial ecosystems through biodiversity and ecological research.
- **SDG 17 –** Building partnerships and global collaborations for sustainable development.