

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



SDG 12: Responsible Consumption & Production

GD Goenka University – Sustainability Initiatives and Achievements

1. Introduction

Sustainable Development Goal 12 focuses on ensuring responsible consumption and production patterns, emphasizing efficient resource use, waste reduction, and sustainable management of natural resources. Promoting sustainable practices in education, research, and operations is critical to cultivating awareness and actionable solutions among future leaders.

Sustainable development is the pathway to the future we want for all. It offers a framework to generate economic growth, achieve social justice, exercise environmental stewardship, and strengthen governance.” – Ban Ki-moon, former UN Secretary-General

GD Goenka University, established in 2013 under the vision of Shri A.K. Goenka, is a leading state private university located on a 60-acre campus in Sohna, Gurugram, Haryana. The University has quickly emerged as a centre for innovation, entrepreneurship, and professional development in India’s higher education landscape. It offers a comprehensive range of undergraduate, postgraduate, and doctoral programmes across diverse disciplines, including Engineering & Sciences, Management, Law, Liberal Arts & Social Sciences, Healthcare & Allied Sciences, Hospitality & Tourism, Agricultural Sciences, and Design. Recognized by the University Grants Commission (UGC) and affiliated with professional bodies such as the Bar Council of India (BCI) and the Indian Council of Agricultural Research (ICAR), the University ensures academic rigour aligned with global standards.

In line with SDG 12, GD Goenka University promotes sustainable practices through campus initiatives, academic curricula, and research activities. The University fosters awareness of resource efficiency, circular economy, and environmental stewardship among students and faculty, encouraging responsible consumption, eco-friendly technologies, and solutions for sustainable development.

GD Goenka University Initiatives

a) Promoting Responsible Consumption and Sustainable Practices at GD Goenka University

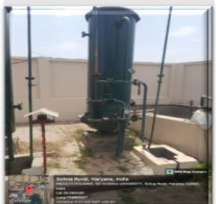
GD Goenka University integrates the principles of SDG 12 — Responsible Consumption and Production — into its campus operations and academic culture. The university has implemented solar photovoltaic systems and rain water harvesting through 14 borewells, raising the ground water bed level from about 800 ft to 150 ft. All treated wastewater is fully recycled within campus boundaries, ensuring no discharge of treated water outside the institution. The university maintains and publishes its Green Energy & Environment Audit Report and Carbon Footprint Report 2023 24, reflecting its commitment to measurable and transparent environmental performance.

In addition to resource-efficient infrastructure, GD Goenka University promotes responsible consumption among its community. Initiatives include electronic waste collection, reducing paper use through centralized digital systems, and a ban on single-use polythene. These efforts foster a culture of sustainability and circular economy thinking among students, faculty, and staff, reinforcing the university's role in advancing sustainable development and environmental stewardship.

b) Waste Management and Recycling



Waste Segregation and Management

Solid Waste Management	Liquid Waste Management	Bio Medical Waste Management	E-Waste Recycling	Hazardous Chemicals
 MOU • Greenobin • Farm Palate	 STP well built with 1.25 L Water is recycled HWRA approval	 MOU • Sahas Zero Waste • Bharat Oil Waste Limited	 MOU • Reboot Pvt. Ltd.	 MOU • M/S Sunrise Industries
				

Vermi-Compost and Vermi-wash prepare at GDGU





Transforming Waste into Wealth to Recycle Resources, and Nourish Growth



Waste Management for Organic Manure Production



Wastewater recycling/STP



Vermicompost Unit & Organic Manure

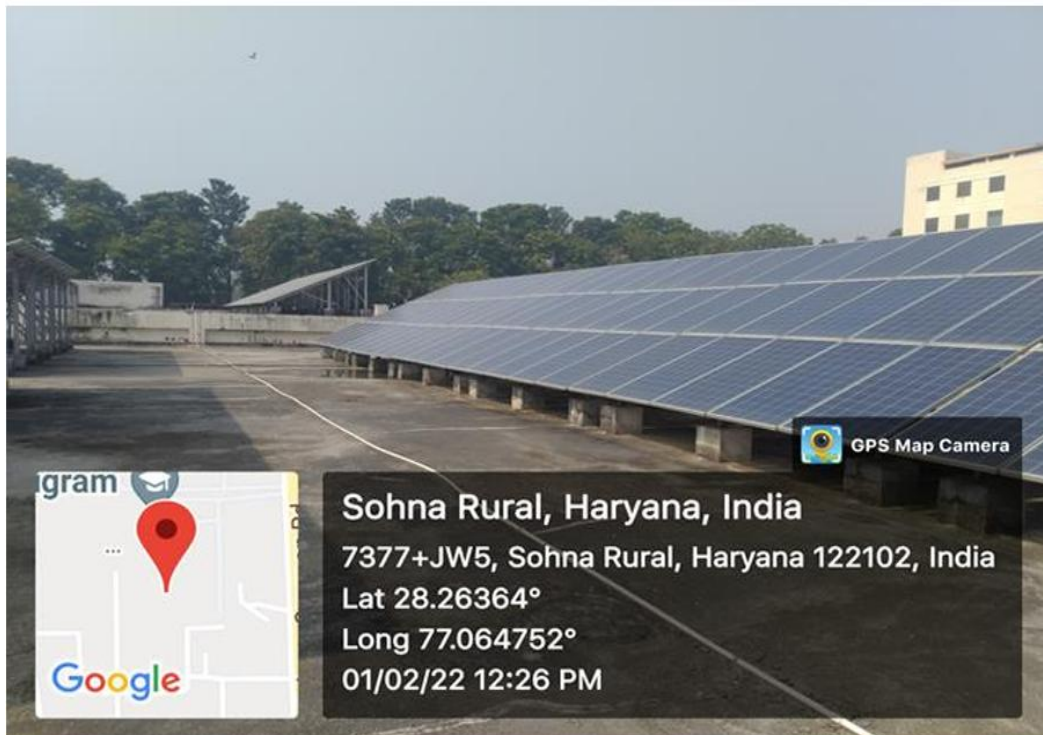


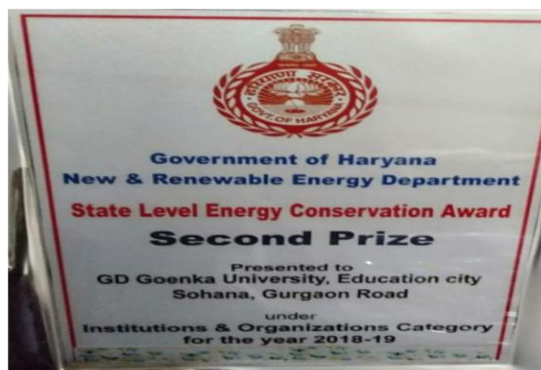
Fertigation and Climate Control Unit

www.gdgoenkauniversity.com

c) Sustainable Infrastructure

- Solar panels installed on campus buildings for renewable energy generation.
- Energy-efficient lighting and water-saving fixtures reducing campus consumption.
- Construction of Tanks & Bunds
- Green landscaping and tree plantations enhancing biodiversity on campus.



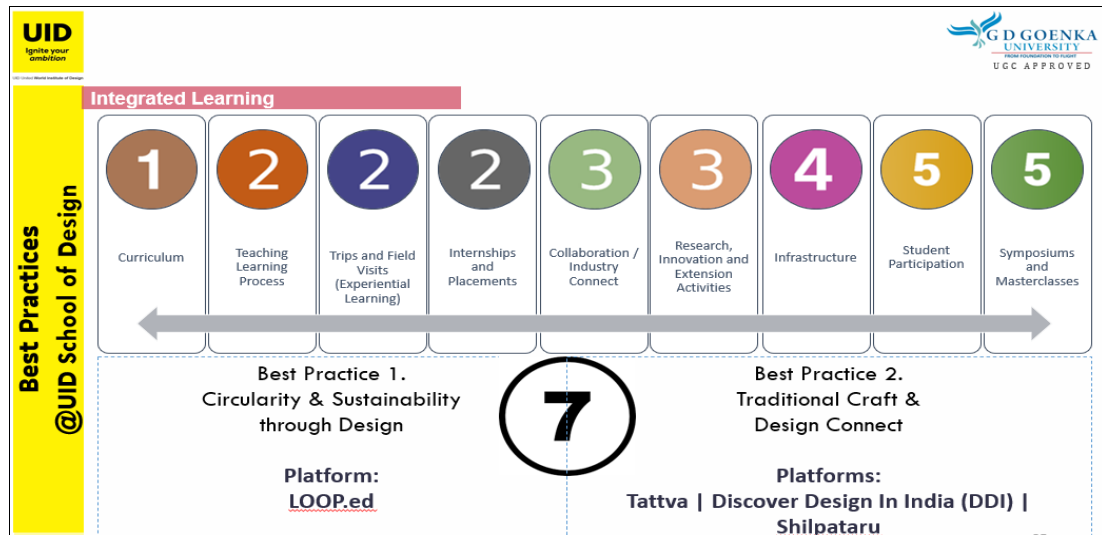




d) Awareness Campaigns and Workshops

- Students attending sustainability workshops and interactive seminars.
- Posters and banners promoting responsible consumption displayed around campus.
- Community outreach programs educating local residents on environmental practices.

Students attending sustainability workshops and interactive seminars



Best Practice 1
Circularity & Sustainability through Design

LOOP.ed
A conclave on responsible consumption and production in design.

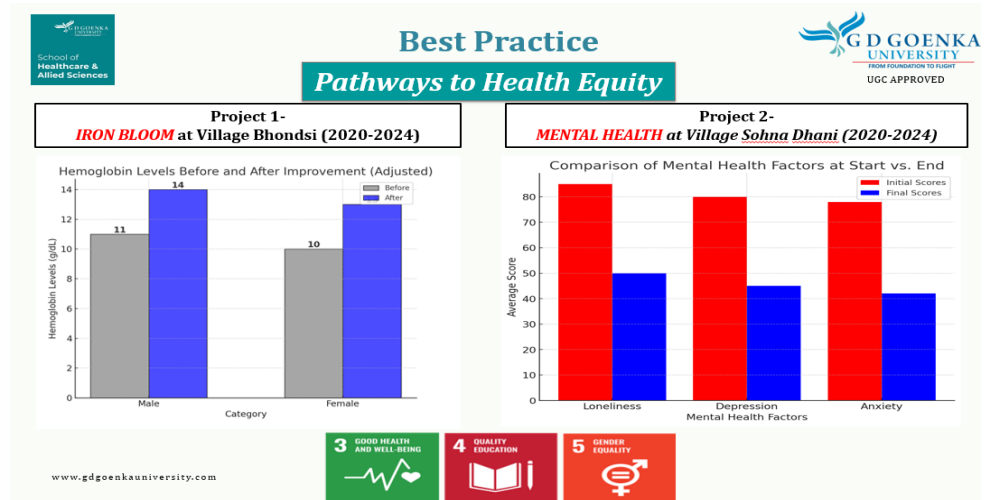
Best Practice 2
Traditional Craft & Design Connect

Shilpataru
Discover Design in India to safeguard our cultural and natural heritage.

Community outreach programs educating residents on environmental practices



PO10 : Legal Aid
SDG 5: Gender Equality
Course: Law and Society (SLA 2708)
Legal Aid Awareness Camp |31 August 2022|



Empowering the Farming Community



Krishi Mela Farmer Awareness Program- Abheyapur Village, 18-19th December 2022





Community Service

Awareness session at Dream Girls Foundation



Visit to NGO, Apr 26, 2023



Visit to NGO, Apr 2, 2024

e) Ethical and Sustainable Procurement

- Cafeteria using eco-friendly utensils and serving locally sourced food.

Cafeteria using eco-friendly utensils and serving locally sourced food

Multiple Eateries & Food Outlets



Innovation in Sustainability

- Student projects showcasing sustainable technologies and eco-solutions.
- Demonstration of renewable energy systems or waste-to-resource initiatives on campus.

Workshops and Technical Sessions



Fingerprinting and Hands on Training, Jan 17, 2022



Symposium and Hands-on Training on Molecular Biology Techniques, Oct 11-13, 2022



Workshop on Innovation, Entrepreneurship and Sustainability, 16-19 Oct 2023



2D and 3D Modeling of Components in Autodesk Inventor, Nov 9, 2023



Emergency preparedness Training - Donaldson, Mar, 13, 2024



Interdisciplinary Research Communications Workshop, Apr 9, 2024



Active Participation of Students in National Level Hackathons & Competitions



Winners of Smart India Hackathon 2020, 2021, 2022 & 2024



Magic Fruit Cleaner, 2019-2020



Self-Sustained Rapid Transit, 2021-2022



SIH 2021



SIH 2022



Sani-Pad Bin, 2022-2023



Waste2Wonder, 2023-2024



www.gdgoenkauniversity.com



SIH 2024



Resonix: AI-Optimized Wireless Energy Transfer using Modulated Frequency Technology, 2023-2024



Transforming Waste into Wealth to Recycle Resources, and Nourish Growth



Waste Management for Organic Manure Production



Wastewater recycling/STP



Vermicompost Unit & Organic Manure



Fertigation and Climate Control Unit

www.gdgoenkauniversity.com

UID
Ignite your ambition

Extension Activity

Co-Learning with the Community
NGO Naviyoti India Foundation

Bags for a Cause: A community service & waste management strategy to foster sustainability



Extension Activity & Best Practice
Circularity & Sustainability through Design



Demonstration of renewable energy systems or waste-to-resource initiatives on campus



f) Energy Performance and Electricity Consumption

GD Goenka University demonstrates responsible energy management in line with SDG 12, which focuses on responsible consumption and production. The university has a total built-up area of 102,028.6 m² and recorded an annual electricity consumption of 6,047,773.9 kWh, resulting in an Energy Performance Index (EPI) of 59.28 kWh/m²/year. This is significant, given that nearly all campus spaces are air-conditioned.

Monthly electricity consumption data shows the combined usage from both the grid and solar power, totaling 5,135,320 kWh for the year, with solar contributing 159,956 kWh. Monitoring these consumption patterns enables the university to implement targeted energy-saving measures, optimize system efficiency, and promote mindful usage among campus stakeholders.

By tracking energy performance, leveraging renewable sources, and encouraging efficient consumption, GD Goenka University aligns with SDG 12's goals of responsible resource use, reducing environmental impact, and fostering sustainable practices across its campus.

Electricity Consumption:

The details of power consumption from total as well as from the grid along with solar power generation is as under.

Month	University		
	DHBN	Solar	Total
	KWH	KWH	KWH
Dec-22	133453	12921	146374
Jan-23	125574	10160	135734
Feb-23	141387	14474	155861
Mar-23	292012	14661	306674
Apr-23	467452	15563	483015
May-23	592330	15445	607775
Jun-23	526222	13934	540156
Jul-23	520391	12324	532715
Aug-23	700276	13991	714267
Sep-23	732612	12571	745184
Oct-23	512874	14805	527679
Nov-23	230780	9106	239886
Total	4975364	159956	5135320

Energy Performance Index:

Description	Unit	Value
University	M ²	102028.6
Total Area	M ²	102028.6
Annual Consumption	KWH	6047773.9
Energy Performance Index	KWH/M ² /Year	59.28

The energy performance index is quite decent considering almost all the space is air conditioned.

g) Plantation, Landscaping & Biodiversity

At GD Goenka, we promote responsible consumption and production through sustainable plantation, landscaping, and biodiversity initiatives. Our campus features green cover with native and fruit-bearing trees, pollinator-friendly zones, and eco-friendly landscaping that conserves water and reduces chemical use. By composting organic waste, using natural fertilizers, and creating habitats for local flora and fauna, we support biodiversity while minimizing environmental impact. These efforts enhance the campus ecosystem and instill a culture of sustainability among students and staff, reflecting our commitment to SDG 12.



3. Research Projects and Publications

a) Projects

GDGU actively aligns its operations and research with SDG 12's mandate of promoting sustainable consumption and production patterns. On the campus infrastructure front, GDGU has implemented measures such as centralised digital systems to reduce paper use, rooftop solar photovoltaic installations, rainwater harvesting across 14 borewells (raising the groundwater bed from ~800 to ~150 feet), water efficient fixtures, sewage treatment and water reuse systems. gdgoenka.com The campus also emphasises waste reduction practices: food waste is recycled into manure for landscaping, e waste and dry leaf management are institutionalized, and solid/liquid waste and rainwater harvesting systems are built into the facilities. gdgoenkauniversity.com+1

Lakshmi Surya

Assistant Professor- Foundation Studies

Qualification: M.Des in Design Research and
Graduate in Fashion Design

College/University:

- M.Des, NIFT New Delhi.
- B.Des, NIFT- Chennai.



Introduction:

Dr. Perna Sharma has professional experience of more than ten years in the field of Environmental Engineering and Solid Waste Management. Her current research areas include performance evaluation and monitoring of STP's and technologies used for sewage treatment. She was awarded with "Award of Honor from: AKHIL BHARTIYA VIDYARTHI PARISAD" for securing first position in M.Sc by Panjab University, Chandigarh. She has taught subjects related to the allied fields like Soil and Water Conservation Engineering, Renewable Energy and Technology, Irrigation Engineering, Environmental Impact Analysis, Environmental Engineering, Research Methodology and Biostatistics, Disaster Management, Pollution Control & Monitoring, Municipal Solid Waste: Engineering Principles & Management, Industrial Waste Management, and Fundamentals of Agronomy. Dr. Perna Sharma is also an Editorial Board member in journals related to Civil and Environmental Engineering and is actively involved in the event management activities like workshops/industrial visit/conferences etc. Prior to taking up the current role in 2014, Dr. Perna Sharma served as Assistant Professor in Chandigarh University (CU) Mohali, Punjab.

Dr. Perna Sharma is awarded with the 'Best Teacher' Award for the academic year 2021-2022 by GD Goenka University. She also received the 'Outstanding Teaching Faculty' Award for the academic year 2020-2021. She has contributed 29 Research papers in the journals and conferences of repute.

Dr. Perna Sharma is also awarded with the Best Senior Faculty award from the Novel Research Academy, Puducherry, India on 31st July 2023 for her academic contribution in Science and Technology under the category of 'Environmental Engineering' specialization for the academic year 2022-2023.

In terms of research and academics, GDGU's faculty and centres cover domains directly relevant to SDG 12. For example, the School of Engineering & Sciences includes faculty whose research focuses on environmental engineering, wastewater and solid waste management (e.g., Dr Perna Sharma's work on STP performance and municipal solid waste). gdgoenkauniversity.com Another example: the Design faculty (e.g., Lakshmi Surya) pursue research on sustainable fashion and supply chains, explicitly anchored on SDG 12: Responsible Consumption & Production. gdgoenkauniversity.com GDGU also hosts conferences (such as "TLASH 2024 – Transforming Lives Through Adoption of SDGs") aimed at highlighting higher education contributions to the SDGs and sustainable practices. gdgoenkauniversity.com

Dr. Prerna Sharma

Assistant Professor

Qualification: Ph.D. (Environmental Engineering), M.Sc (Gold Medalist) Environment & Solid Waste Management, M.E (Environmental Engineering), (B.Sc Medical) and Advanced Diploma (Environmental Auditing)

College/University: GD Goenka University, Gurugram, Panjab University Chandigarh, PEC University of Technology, Chandigarh



Introduction:

Dr. Prerna Sharma has professional experience of more than ten years in the field of Environmental Engineering and Solid Waste Management. Her current research areas include performance evaluation and monitoring of STP's and technologies used for sewage treatment. She was awarded with "Award of Honor from: AKHIL BHARTIYA VIDYARTHI PARISAD" for securing first position in M.Sc by Panjab University, Chandigarh. She has taught subjects related to the allied fields like Soil and Water Conservation Engineering, Renewable Energy and Technology, Irrigation Engineering, Environmental Impact Analysis, Environmental Engineering, Research Methodology and Biostatistics, Disaster Management, Pollution Control & Monitoring, Municipal Solid Waste: Engineering Principles & Management, Industrial Waste Management, and Fundamentals of Agronomy. Dr. Prerna Sharma is also an Editorial Board member in journals related to Civil and Environmental Engineering and is actively involved in the event management activities like workshops/industrial visit/conferences etc. Prior to taking up the current role in 2014, Dr. Prerna Sharma served as Assistant Professor in Chandigarh University (CU) Mohali, Punjab.

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Objectives

- To explore the transformative potential of SDGs and the role of HEIs in achieving them.
- To showcase successful initiatives and best practices by HEIs in integrating SDGs into their teaching, research, and community engagement activities.
- To foster collaboration and partnerships between HEIs, governments, the private sector, and civil society organizations to accelerate progress towards the SDGs.
- To identify challenges and opportunities in mainstreaming SDGs within higher education.
- To develop recommendations for a comprehensive action plan for HEIs to contribute effectively to the 2030 Agenda.



Call for Papers

Original unpublished articles are invited for submission to the following tracks, including the topics, but not limited to:

Track 1: Innovations in Health Equity and Environment Sustainability

Track 2: Engineering a Sustainable Future: Role of Science and Technology for Achieving SDGs

Track 3: Leadership and Innovation for Sustainable Future

Track 4: Legal Innovations for Sustainable Future: The Role of Law Schools in Advancing SDGs

Track 5: Interdisciplinary approaches of arts and humanities and contributions to sustainable development

Track 6: Innovative Agricultural Practices for a Sustainable Future

Track 7: Global Trends in Sustainable Hospitality and Tourism and Their Impact on Education

GDGU's research publications show topics like "Technological innovations for waste management in food processing industry: an overview". gdgoenkauniversity.com Moreover, in its "Responsible Consumption & Production" page, GDGU clearly states the aim of reducing waste generation, promoting reuse and recycle (the "3Rs") and ensuring efficient use of resources. gdgoenkauniversity.com

Relevance to SDG 12:

These initiatives collectively address core SDG 12 targets: reducing waste generation, improving resource efficiency, promoting sustainable practices across production and consumption domains (including campus operations and research). By combining infrastructure, research, curriculum and events, GDGU is building a holistic ecosystem that supports the transition to more responsible consumption and production.



b) Publication
SDG 12 – Responsible Consumption & Production - Publications - 72

S.No.	Type	Title	Authors	Journal / Book	Year
1	Article • Open access	Faculty transformation for enhanced student learning: A structural equation modelling study on responsible management education in India	Banerji, B., Girija, S., Sharma, D.R., Batra, N., Sriramneni, C.	Journal of University Teaching and Learning Practice	2025
2	Book Chapter	Internet of Things (IoT)-driven smart city development: An undetected sustainable revolution in India	Gorowara, N., Khan, M.A., Avasthi, P., Varma, R.A., Gupta, S.	Advancing Social Equity Through Accessible Green Innovation	2025
3	Book Chapter	Industrial Application of Bio-nanomaterials in Agriculture	Pandey, V., Sharma, A., Kumar, D., Samadhiya, N., Tomar, S.S.	Bio Nanomaterials in Environmental Remediation Industrial Applications	2025
4	Article	The PROMETHEE-GAIA: A multi-criteria decision-making method for identifying best conservation agricultural practices	Biswas, T., Ishizaka, A., Majumder, A., Mishra, P.M., Acharya, S.K.R.	Soil and Tillage Research	2025
5	Article	Unraveling the nexus between crop residue burning and air quality in Haryana state, India	Neelam, N., Rathee, R.K., Mishra, S.K.	Paddy and Water Environment	2025
6	Book Chapter	Mapping Ethical Values onto Sustainable Tourism: A Bibliometric Perspective	Sharma, M., Wadhwa, S., Sharma, A., Masih, J.	Studies in Systems Decision and Control	2025
7	Article	Heritage tourism: authenticity vs sustainability in living museums	Agrawal, G., Girija, S., Banerji, B., Wadera, D., Mehrotra, V.	Journal of Tourism and Cultural Change	2025
8	Book Chapter	Impact of prenatal tourism in mental health services in developing countries	Prakash, J., Kumari, U., Singh, V.K.	Exploration of Prenatal Tourism and Birthright Citizenship	2024
9	Review Open access	Microwave-Assisted Synthetic Pathways of Pyrrole: A Comprehensive Review	Yadav, R., Sanduja, M., Kumar, V.V., Khan, S., Kumar, K.	Asian Journal of Organic Chemistry	2024
10	Review Open access	Sustainable marketing mix and supply chain integration: A systematic review and research agenda	Garg, R., Chhikara, R., Agrawal, G., Rathi, R., Arya, Y.	Sustainable Futures	2024

11	Article	Evaluation of management practices in rice–wheat cropping system using multicriteria decision-making methods in conservation agriculture	Biswas, T., Majumder, A., Dey, S., Ishizaka, A., Matuka, A.	Scientific Reports	2024
12	Article • Open access	Climate consciousness: assessing climate change awareness in Gurugram, India	Rimple, M.	Journal of Asian Business and Economic Studies	2024
13	Book Chapter	Balancing objectives: Discovering the unified threads of environmental sustainability and employee engagement	Khan, N., Khaliq, F., Sarna, S., Saini, K.	Intersecting Human Resource Management and Organizational Culture for Environmental Sustainability	2024
14	Book Chapter	Emerging technologies for sustainable soil management and precision farming	Singh, A., Tomar, B., Margaryan, G.H., Singh, O., Ghazaryan, K.A.	Nanotechnology Applications and Innovations for Improved Soil Health	2024
15	Conference Paper • Open access	Assessing the Environmental Impact of Advanced Energy Storage Solutions: A Comparative Lifecycle Analysis	Mishra, M., Dutt, A., Saini, N., Srikanth, T., Talukdar, S.	E3S Web of Conferences	2024
16	Conference Paper • Open access	Polymer Matrix Nanocomposites for Lightweight Sustainable Automotive Parts	Sehgal, A., Sharma, D., Kataria, A., Vivek Kumar, C., Mongal, B.N.	E3S Web of Conferences	2024
17	Conference Paper • Open access	Sustainable Approaches for Recycling Solar Panel Materials: A Circular Economy Perspective	Yadav, R., Singla, A.K., Ghalwan, M., Vyas, A., Karthikeyan, R.	E3S Web of Conferences	2024
18	Conference Paper • Open access	Optimizing Solar-Wind Hybrid Microgrid Designs with Particle Swarm Techniques for Sustainable Energy Integration	Jain, A.K., Prakash, S., Bansal, S., Satyanarayana, G.V., Mongal, B.N.	E3S Web of Conferences	2024
19	Conference Paper • Open access	Recycling of Solar Panels: Sustainable Disposal of Photovoltaic Materials	Gera, R., Singh, H., Ikram, M., Prasad Raju, V.S., Kampani, S.	E3S Web of Conferences	2024
20	Conference Paper • Open access	Green Synthesis of Nanocatalysts for Sustainable Petrochemical Refining	Singla, T.S., Bisht, D., Taneja, M., Hemalatha, K., Talukdar, S.	E3S Web of Conferences	2024
21	Article	Groundwater Resilience in Rice-Growing Regions: Utilizing GRACE Data for	Neelam, Rathee, R.K., Mishra, S.K., Kumar, A.	Water and Energy International	2024

		Sustainable Water Management			
22	Conference Paper • Open access	Polymer Matrix Nanocomposites for Sustainable Packaging: A Green Approach	Vafaeva, K.M., Chhetri, A., Sudan, P., Sankara Babu, B., Mongal, B.N.	E3S Web of Conferences	2024
23	Conference Paper • Open access	Sustainable Production of Polymer Matrix Nanocomposites for Energy Storage	Dixit, S., Nautiyal, R.D., Parashar, K., Mouli, K.C., Vyas, A.	E3S Web of Conferences	2024
24	Conference Paper • Open access	Reuse and Recycling of Waste Materials for Green Nanocomposite Fabrication	Sharma, V., Negi, A.S., Sharma, N.K., Prashanthi, B., Sharma, P.	E3S Web of Conferences	2024
25	Conference Paper • Open access	Life Cycle Analysis of Energy Storage Technologies: A Comparative Study	Sanduru, B.T., Dhyan, M., Thakur, R., Bhardwaj, N., Talukdar, S.	E3S Web of Conferences	2024
26	Conference Paper • Open access	Sustainable Synthesis of Perovskite Solar Cells Using Green Materials	Kansal, L., Joshi, A., Mishra, R., Lakshmi Prasanna, J.L., Sharma, P.	E3S Web of Conferences	2024
27	Article	Sustainable Management of Floral Waste to Reduce Environmental Pollution by Conversion to Value-Added Products	Gupta, V.K., Kumar, R., Dhanker, R., Kamble, S.S., Mohamed, H.I.	Water Air and Soil Pollution	2024
28	Book Chapter	Nanotechnology solutions for sustainable pest and disease control	Singh, P.K., Tomar, B., Patle, T., Tomar, S.S., Singh, D.	Harnessing Nanoomics and Nanozymes for Sustainable Agriculture	2024
29	Book Chapter	Nanotechnology and agricultural sustainability: Environmental impacts and benefits	Kumari, M., Tomar, B., Singh, P.K., Patle, T., Parihar, S.S.	Harnessing Nanoomics and Nanozymes for Sustainable Agriculture	2024
30	Book Chapter	Advanced and intelligent nanofertilizer base soil management for sustainable agriculture	Tomar, B., Tomar, S.S., Parihar, S.S., Patel, H., Singh, P.K.	Sustainable Agriculture Nanotechnology and Biotechnology for Crop Production and Protection	2024
31	Review • Open access	Pesticides impacts on human health and environment	Ahmad, M.F., Ahmad, F.A., Alsayegh, A.A., Abdelrahman, M.H., Hussain, S.	Heliyon	2024
32	Conference Paper • Open access	Precision Agriculture and Sustainable Yields: Insights from IoT-Driven Farming	Vatin, N.I., Joshi, S.K., Acharya, P., Sharma, R., Rajasekhar, N.	Bio Web of Conferences	2024

33	Conference Paper • Open access	Using the IoT Sustainability Assessment Test to Assess Urban Sustainability	Kankhva, V.S., Ikram, M., Bahl, A., Acharya, P., Parik, K.	Bio Web of Conferences	2024
34	Conference Paper • Open access	Optimizing City Services through Data-Driven Dynamic Urban Communication	Rinat, K., Ghalwan, M., Kaur, N., Banerjee, A., Lavanya, G.	Bio Web of Conferences	2024
35	Conference Paper • Open access	Enhancing Smart City Services with AI: A Field Experiment in Industry 5.0	Taskaeva, N.N., Joshi, S.K., Dixit, S., Jena, P.C., Vyas, A.	Bio Web of Conferences	2024
36	Conference Paper • Open access	Reducing Carbon Emissions: Analysis of Smart City Initiatives	Chulyenkov, A.S., Nautiyal, M., Singla, A.K., Arora, R., Kumar, A.	Bio Web of Conferences	2024
37	Conference Paper • Open access	Optimizing Waste Management through IoT and Analytics	Kuzhin, M.F., Joshi, A., Mittal, V., Khatkar, M., Guven, U.	Bio Web of Conferences	2024
38	Conference Paper • Open access	Supply Chain Optimization in Industry 5.0: An Experimental Investigation	Vatin, N.I., John, V., Nangia, R., Kumar, M., Yeluri, L.P.	Bio Web of Conferences	2024
39	Article	Influence of Organic Amendments Derived from Rice Straw and Cow Dung on Loamy Sand Soil	Yadav, S., Kumar, P.	Annals of Biology	2024
40	Article	Exploring drivers and barriers to non-formal education in Anganwadi centers	Garg, R., Chhikara, R., Kataria, A., Agrawal, G.	International Journal of Inclusive Education	2024
41	Book Chapter	Impact of nanotoxicity in soil microbiome and its remedial approach	Pandey, B.K., Jha, S., Jha, G., Shukla, S.K., Dikshit, A.	Microbiome Based Decontamination of Environmental Pollutants	2024
42	Book Chapter	Agronomic Strategies for Enhancing Forest Resilience to Climate Change	Kumar, D., Pandey, V., Dixit, S.	Forests and Climate Change: Biological Perspectives on Impact, Adaptation and Mitigation	2024
43	Book Chapter	The Soil-Climate Nexus in Forest Ecosystems	Pandey, V., Kumar, D.	Forests and Climate Change: Biological Perspectives	2024
44	Book Chapter	A theory-based approach to understanding social sustainability in tourism	Bhartiya, S.P., Bhatt, V., Rathore, A.H., Khanam, T.	Implementing Sustainable Development Goals in the Service Sector	2023
45	Article	Investigation of indoor air pollutants in different environmental settings	Nandan, A., Mondal, P., Kumar, S., Raja, S., Hussain, C.M.	Air Quality Atmosphere and Health	2023

46	Book Chapter	Forage cropping under climate smart farming	Sathyanarayana, E., Kumar, B.P., Tirunagari, R., Teja, K.C., Thallapally, S.	Molecular Interventions for Developing Climate Smart Crops	2023
47	Article	Culture, Compliance, Collaboration led Green Entrepreneurship for Environment Protection	Prasad, M., Jha, A.	Indian Journal of Environmental Protection	2023
48	Book Chapter	Oxidative Catalytic Potential of Lignin-Modifying Enzymes in Treatment of Emerging Contaminants	Bomfim, S.A., Barros, G.P., Bharagava, R.N., Eguluz, K.I.B., Ferreira, L.F.R.	Genomics to Bioremediation	2023
49	Conference Paper	Spaceport Feasibility Analysis for Dubai: Logistics, Safety and Space Tourism	Guen, U.	Proceedings of the International Astronautical Congress	2023
50	Article	Firm Characteristics and Adoption of Integrated Reporting: An Emerging Market Perspective	Bhatia, M., Mehrotra, V., Thawani, B.	Global Business Review	2023
51	Book Chapter	Generation of biofuels from rice straw and its future perspectives	Biswas, P., Mandal, S., Das, T., Bursal, E., Dey, A.	Green Approach to Alternative Fuel for A Sustainable Future	2023
52	Book Chapter	Introduction to Micropollutants and Their Sources	Shaida, M.A., Talukdar, S., Mahtab, M.S., Farooqi, I.H.	Management of Wastewater and Sludge New Approaches	2023
53	Article • Open access	Microbial strategies for degradation of microplastics from COVID-19 healthcare waste	Dey, S., Anand, U., Kumar, V., Bhat, S.A., Dey, A.	Environmental Research	2023
54	Book	Omics for Environmental Engineering and Microbiology Systems	Kumar, V., Garg, V.K., Kumar, S.N., Biswas, J.K.	Omics for Environmental Engineering and Microbiology Systems	2022
55	Article	Flyash-Based Geopolymer as a Sustainable Construction Material	Shekhawat, P., Sharma, G., Singh, R.M.	Geotechnical and Geological Engineering	2022
56	Article	Role of Psychological Capital in Sustainability Orientation and Entrepreneurial Intensity	Sisodia, S., Jan, S.	Sustainability and Climate Change	2022
57	Article	Sustainable consumption practices in Indian households	Kaur, J., Mogaji, E., Wadera, D., Gupta, S.	Society and Business Review	2022
58	Article	Exploration of Green Materialism Framework: A Review	Rimple, M.	Indian Journal of Economics and Development	2022
59	Conference Paper	Assessing and Evaluating Seismic Sensitive	Pathak, A., Mishra, S.K., Sharma, A.	ZEMCH International Conference	2022

		Parameters of Historic Constructions			
60	Book Chapter	Contamination and impacts of metals and metalloids on agro-environment	Jha, S., Singh, R., Jha, G., Singh, P., Dikshit, A.	Metals and Metalloids in Soil Plant Water Systems	2022
61	Book Chapter	Microbial community and their role in bioremediation of polluted e-waste sites	Dey, S., Shekhawat, M.S., Pandey, D.K., Kumar, V., Dey, A.	Metagenomics to Bioremediation Applications	2022
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64	Article	Aesthetically clean to clinically clean – New housekeeping practices in Delhi hotels	Sharma, S., Kaushik, T.	Worldwide Hospitality and Tourism Themes	2021
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