



## SDG 17.2.4: Collaboration for SDG Best Practice

### GD Goenka University -Sustainability Initiatives and Achievements

#### 1. Introduction

International collaboration is a desirable aspect of sustainable development research to achieve the SDGs. The increasing differences, particularly those evident between rich and developing countries, can greatly affect the implementation of SDGs. In order to achieve the SDGs, it is essential to recognise the significance of stronger cooperation between global organisations for the implementation of SDGs, especially in developing nations. In an effort to support progress towards the SDGs, GD Goenka University has signed memorandums of understanding (MOUs) with several institutions across the world. GD Goenka University has also published several internationally collaborative papers with some of the leading institutions in attaining Sustainable Development Goals. The collaborations in most cases have benefited both the partners with the research getting published in higher impact journals and receiving more citations. GD Goenka University has also established several centres of excellence and research centers in areas relevant to the SDGs. The purpose of setting up the research centers is to promote interdisciplinary collaborative research within the university as well as with researchers from other institutions in India and abroad.

#### 2. GD Goenka University Initiatives

Some of the collaborations with international institutions in research and development are as below:

**Evidence:** [bibliographic databases](#)

Sr. No.	Name of Authors	Reference of Publication	Collaborating country	SDG Covered
1	Parijat Pandey, Hitesh Chopra, Deepak Kaushik, Ravinder Verma, Deepika Purohit, Jatin Parashar, Vineet Mittal, Md. Habibur Rahman, Saurabh Bhatia, Pradeep Kumar & Ahmed Al-Harrasi	Multifunctional patented nanotherapeutics for cancer intervention: 2010-onwards, Recent Patents on Anti-cancer Drug Discovery, Recent Patents on Anti-Cancer Drug Discovery, 2023, 23: 38-52.	India, Southeast University, Banani, Dhaka, Bangladesh., University of the Witwatersrand, Johannesburg, South Africa.	SDG 3- Good Health and Well-Being SDG 9 -Industry, Innovation and Infrastructure SDG 17- Partnerships for the Goals SDG 4 - Quality Education



			University of Nizwa, Nizwa, Sultanate of Oman	
2	Deepika Purohit, Pawan Jalwal, Deeksha Manchanda, Sapna Saini, Ravinder Verma, Deepak Kaushik, Vineet Mittal, Manish Kumar, Tanima Bhattacharya, Md. Habibur Rahman, Rohit Dutt, Parijat Pandey	Nanocapsules: An emerging drug delivery system, Recent Patents on Nanotechnology, 2023, 17: 190- 207.	India. Southeast University, Banani, Dhaka,	SDG 3- Good Health and Well-Being  SDG 9 -Industry, Innovation and Infrastructure  SDG 17- Partnerships for the Goals
3	M.A. Morsy, S. Gupta, C.P. Dora, V. Jhawar, M. Dhanawat, et al.	Venoms classification and therapeutic uses: a narrative review, European Review for Medical and Pharmacological Sciences, 2023, 27: 1633-1653	India.  King Faisal University,  Al-Ahsa, Saudi Arabia.  Minia University, El-Minia, Egypt	SDG 3- Good Health and Well-Being  SDG 9 -Industry, Innovation and Infrastructure  SDG 17- Partnerships for the Goals
4	Neha Chandel, Kinnri Jain, Ankit Jain, Tirath Raj, Anil Kumar Patel, Yung-Hun Yang, Shashi Kant Bhatia	The versatile world of cellulose-based materials in healthcare: From production to applications, Industrial Crops and Products, 23,201: 116929	India.  National Kaohsiung University of Science and Technology, Taiwan.  National Kaohsiung University of Science and Technology, South Korea	SDG 9 -Industry, Innovation  SDG 12- Responsible consumption and Production  SDG 17- Partnerships for the Goals
5	Shaveta Ahalwat,* Dinesh Chandra Bhatt*, Surbhi Rohilla, Vikas Joggal, Kirti Sharma, Tarun Virmani, Girish Kumar, Abdulsalam Alhalmi, Ali S. Alqahtani, Omar M. Noman and Marwan Almoiliqy	Mannose-Functionalized Isoniazid-Loaded Nanostructured Lipid Carriers for Pulmonary Delivery: In Vitro Prospects and In Vivo Therapeutic Efficacy Assessment, Pharmaceuticals, 2023, 16: 1108	India.  University of Aden, Yemen.  King Saud University (KSU), Saudi Arabia	SDG 9 -Industry, Innovation  SDG 17- Partnerships for the Goals.  SDG 4- Quality Education
6	Epibeni N Humtsoe, Jaya Bharti, Thonlo kent	An epidemiological study of dengue virus and surveillance outbreak in dimapur Northeast India, YMER, 2023, 22: 11-22	India	SDG 3- Good Health and Well-Being  SDG 6- Clean Water and Sanitation



				SDG 11 - Sustainable Cities and Communities  SDG 17- Partnerships for the Goals.
7	Kamran Ali, Gupta, S., Hussain, M.E., Masad, Mohd. Dilshad, Masood Khan, Ahmad H Alghadir	Effect of plyometric versus complex training on core strength, lower limb, and upper limb power in male cricketers: a randomized controlled trial, BMC Sports Sci Med Rehabil, 2023, 1-8	India.  King Saud University (KSU), Saudi Arabia	SDG 3- Good Health and Well-Being  SDG 4- Quality Education  SDG 9 -Industry, Innovation  SDG 17- Partnerships for the Goals.
8	Dhir S, Dutt R, Singh RP, Chauhan M, Virmani T, Kumar G, Alhalmi A, Aleissa MS, Rudayni HA, Al-Zahrani M.	Amomum subulatum fruit extract mediated green synthesis of silver and copper oxide nanoparticles: synthesis, characterization, antibacterial and anticancer activities, Processes, 2023, 11 (9): 2698	India.  Imam Mohammad Ibn Saud Islamic University (IMSIU), Riyadh, Saudi Arabia	SDG 9 -Industry, Innovation  SDG 12- Responsible consumption and Production  SDG 17- Partnerships for the Goals
9	Dhir S, Dutt R, Singh RP, Chauhan M, Virmani T, Kumar G, Alhalmi A, Aleissa MS, Rudayni HA, Al-Zahrani M.	Amomum subulatum fruit extract mediated green synthesis of silver and copper oxide nanoparticles: synthesis, characterization, antibacterial and anticancer activities, Processes, 2023, 11(9): 2698	India.  Imam Mohammad Ibn Saud Islamic University (IMSIU), Riyadh, Saudi Arabia	SDG 3- Good Health and Well-Being  SDG 9 -Industry, Innovation  SDG 12- Responsible consumption and Production  SDG 17- Partnerships for the Goals
10	Neha Chandel, Bharat Bhushan Singh, Chetna Dureja, Yung-Hun Yang, Shashi Kant Bhatia	Indigo production goes green: a review on opportunities and challenges of fermentative production, World Journal of Microbiology and Biotechnology, 2024, 40: 60	India, Konkuk University, South Korea	SDG 9 -Industry, Innovation  SDG 12- Responsible consumption and Production  SDG 13 -Climate Action  SDG 17- Partnerships for the Goals
11	Preeti Garg, Navidha Aggarwal, Vandana Garg, Rohit Dutt, Rahul Partap Singh,	Assessment of antidepressant activity of stem of Jasminum multiflorum	India,	SDG 3- Good Health and Well-Being



	Virender Kumar, Hitesh Chopra, Haneen A. Al-Mazroua, Sabry M. Attia, Sheikh F. Ahmad, Talha Bin Emran	Andrews and Jasminum Mesnyi Hance by modulating neurochemicals and reducing oxidative stress, Journal of Biological Regulators and Homeostatic Agents, 2024, 3 (2): 1649-1661	King Saud University, Saudi Arabia	SDG 9 -Industry, Innovation SDG 12- Responsible consumption and Production SDG 17- Partnerships for the Goals
12	Manish Kumar, Bhavishya Sharma, Patitpaban Mohanty, Pratiksha Arya, Nouredin Nakhostin Ansari, Kamran Ali	Effects of Gluteal Muscles Isometrics on Abdominals, Back Extensors and Quadriceps Strength, Journal of Iranian Medical Council, 2024, 7(3):	<b>India</b> Research Center for War affected People, Tehran University of Medical Sciences, Tehran, Iran	SDG 3- Good Health and Well-Being SDG 9 -Industry, Innovation and Infrastructure SDG 17- Partnerships for the Goals
13	Maria Markoulli, Timothy R Fricke, Anitha Arvind, Kevin D Frick et al	BCLA CLEAR Presbyopia: Epidemiology and Impact, Contact Lens and Anterior Eye, 2024,	India. The University of New South Wales (UNSW Sydney) Australia. The University of Melbourne & National Vision Research Institute, Australia .Johns Hopkins University, USA, Deakin University, Australia.	SDG 3- Good Health and Well-Being SDG 4- Quality Education SDG 10 -Reduced Inequality SDG 17- Partnerships for the Goals.
14	Nitish Bhatia, Mohd Masih, Uzzaman Khan, Saahil Arora	The Role of Artificial Intelligence in Revolutionizing Pharmacological Research, Current Pharmacology Reports, 2024, 1-7	India Qassim University Buraydah, Saudi Arabia	SDG 3- Good Health and Well-Being SDG 9 -Industry, Innovation and Infrastructure SDG 17- Partnerships for the Goals
15	Ruchi Tiwari, Pranshul Sethi, Shashi Ravi Suman Rudrangi, Pavan Kumar Padarthi, Vinod Kumar, Samatha Rudrangi, Krishna Vaghela 7	Inulin: a multifaceted ingredient in pharmaceutical sciences, Journal of Biomaterials Science, Polymer Edition, 2024	India Lifecare Pharmacy of Austin, Bexar, TX, USA Kent Pharma UK Limited), Ashford, UK Lifecare Pharmacy of Austin, Bexar, TX, USA	SDG 3- Good Health and Well-Being SDG 9 -Industry, Innovation and Infrastructure SDG 12 – Responsible Consumption and Production



16	Anitha Arvind, K N Rakesh, Krishna Kumar Gupta, Rute J Macedo-de-Araujo, daddi Fadel	Lid Wiper Epitheliopathy: Topical review of current identification strategies and future perspectives, Contact Lens and Anterior Eye, 2024, 47:	<b>India.</b>  Linnaeus University, <b>Sweden</b>  Centre of Physics of Minho & Porto Universities, Braga, <b>Portugal.</b>	SDG 3- Good Health and Well-Being  SDG 17- Partnerships for the Goals
17	Arti Kumari, Nisha Chandila, Rubina Bhutani and Inderjeet Yadav	Hepatoprotective Potential of Indian Medicinal Plants, Combinatorial Chemistry & High Throughput Screening,	<b>India</b>	SDG 3- Good Health and Well-Being  SDG 9 -Industry, Innovation and Infrastructure  SDG 12- Responsible consumption and Production  SDG 17- Partnerships for the Goals
18	Deepa, Ameen, F., Islam M.A. & Dhanker, Raunak	Green Synthesis of Silver Nanoparticles from Vegetable Waste of Pea Pisum sativum and Bottle gourd Lagenaria siceraria: Characterization and Antibacterial Properties, Frontiers in Environmental Science	India.  King Saud University (KSU), Saudi Arabia.  Universite de Sherbrooke, Canada	SDG 3- Good Health and Well-Being  SDG 9 -Industry, Innovation and Infrastructure  SDG 12- Responsible consumption and Production  SDG 17- Partnerships for the Goals
19	MohdAzfar Shaida, SwatiVerma, SoumitaTalukdar, NavneetKumar, Mohd Salim Mahtab, Mu.Naushad, Izharul Haq Farooqi	Critical analysis of the role of various iron-based heterogeneous catalysts for advanced oxidation processes: A state of the art review, 2023, 374	India.  King Saud University (KSU)Saudi Arabia	SDG 6- Clear water and sanitation  SDG 9 -Industry, Innovation  SDG 12- Responsible consumption and Production  SDG 17- Partnerships for the Goals
20	Atul Raj, Joy Prakash Misra , Ravinder Pal Singh , Gurminder Singh , Shubham Sharma and Sayed M. Eldin	Performance analysis of WEDM during the machining of Inconel 690 miniature gear using RSM and ANN modeling approaches, RAMS, 2023, 62	India  Dublin, Ireland	SDG 9 -Industry, Innovation and Infrastructure  SDG 12- Responsible consumption and Production

				SDG 17- Partnerships for the Goals
21	Md Faruque Ahmad,Fakhruddin Ali Ahmad,Md Zyaullah,Abdurrahman AlAyash, Syaed Esam Mahmood ,Abdulah .M.alsharhrani,eman,kandil,a muda,Ehab	Ganoderma Lucidium:Novel insight into hepatoprotective potential with mechanism of action, Nutrients, 2023	India. Jazan University, Saudi Arabia. King Khalid University, Saudi Arabia	SDG 3- Good Health and Well Being. SDG 9 -Industry, Innovation and Infrastructure SDG 12- Responsible consumption and Production SDG 17- Partnerships for the Goals
22	Dipesh Popli, Usha Batra, Velaphi Msomi, Shubham Verma	A systematic survey of RUM process parameter optimization and their influence on part characteristics of nickel 718, Scientific Reports Nature, 2023,	India. Cape Peninsula University of Technology, South Africa.	SDG 9 -Industry, Innovation and Infrastructure SDG 12- Responsible consumption and Production SDG 17- Partnerships for the Goals
23	Robin V. John Fernandes , Dr. S.M Tauseef , and Dr. N. A Siddqui	Enhancing construction safety culture: a systematic review of factors, practices for ergonomic improvement and practical applicability in construction industry, China Petroleum Processing and Petrochemical Technology, Catalyst Research, 2023, 23, 2837, 2860	India King Saud University	SDG 3- Good Health and Well Being. SDG 8 - Decent Work and Economic Growth
24	Priyadarshani Rajput Pradeep Kumar, A K Priya, Smita Kumari, Seyede Roghie Ghadirnezhad Shiade, Vishnu D Rajput, Amin Fathi, Arunava Pradhan, Rubab Sarfraz, Svetlana Sushkova, Saglara Mandzhieva, Tatiana Minkina, Alexander Soldatov, Ming Hung Wong, Christopher Rensing	Nanomaterials and biochar mediated remediation of emerging contaminants, Science of the Total Environment, 2024, 916,	India South Federal University, Russia, University of Hong Kong. Fujian Agriculture & Forestry University, China	SDG 3- Good Health and Well-Being SDG 9 -Industry, Innovation and Infrastructure SDG 12 -Responsible Consumption and Production SDG 17- Partnerships for the Goals
25	Raunak Dhanker, Abhishek Saxena, Archana Tiwari, Pankaj Kumar Singh, Anil Kumar Patel , Hans-Uwe	Towards sustainable diatom biorefinery: Recent trends in cultivation and	India Kaohsiung Medical University, <b>Taiwan.</b>	SDG 3- Good Health and Well-Being





	Dahms , Jiang-Shiou Hwang , Georgia Maria Gonz´alez-Meza, Elda M. Melchor-Martínez , Hafiz M.N. Iqbal , Roberto Parra-Saldívar	applications, Bioresource Technology, 2024, 391: 129905	National Sun Yat-Sen University, <b>Taiwan.</b>  National Taiwan Ocean University, <b>Taiwan.</b> Tecnológico de Monterrey, <b>Mexico</b>	SDG 9 -Industry, Innovation and Infrastructure  SDG 12 – Responsible Consumption and Production
26	Md Faruque Ahmad,* , Abdulrahman A. Alsayegh, Fakhruddin Ali Ahmad ,	<i>Ganoderma lucidum</i> : Insight into antimicrobial and antioxidant properties with development of secondary metabolites, Heliyon, 2024, 10:25607	India.  Jazan University, Saudi Arabia	SDG 3- Good Health and Well-Being  SDG 9 -Industry, Innovation and Infrastructure  SDG 12 – Responsible Consumption and Production
27	Md Faruque Ahmad,* Fakhruddin Ali Ahmad, Abdulrahman A. Alsayegh	Pesticides impacts on human health and the environment with their mechanisms of action and possible countermeasures, Heliyon, 10: 29128	India.  Jazan University, Saudi Arabia	SDG 3- Good Health and Well-Being  SDG 6- Clean Water and Sanitation  SDG 12 -Responsible Consumption and Production  SDG 17- Partnerships for the Goals
28	Sangeeta , Akhilesh Kumar , Aysha Fatima , Mudassar Shahid , Indresh Verma , Purna Sharma , Himanshu Arora , Saleem Javed , Deepansh Sharma , Bhawna Uttam , Amit Rajput	Synthesis, Crystal Structure, Quantum Computational, Biological Study, Molecular docking and Molecular Dynamic Simulations Investigations on 2,2'-((1,4-phenylenebis(methylene) bis(sulfanediy)), "Journal of Molecular Structure", 2024,	India  King Saud University, Riyadh 11451, Saudi Arabia	SDG 3- Good Health and Well-Being  SDG 9- Responsible Consumption and Production  SDG 12 -Responsible Consumption and Production  SDG 17- Partnerships for the Goals
29	A Ahmed, Sudipta K Mishra, Md Alquamar Azad, TN Singh, Abdullah Ansari, Ashutosh Kainthola, Shafat Ahmad, Khansa Zaidi	Prediction of Tunnel Ground Deformation-A Case Study from Western Himalaya, India, Results in Earth Sciences, 2024	India.  Jazan University, Saudi Arabia.  King Khalid University, Saudi Arabia	SDG 3- Good Health and Well-Being  SDG 9- Responsible Consumption and Production  SDG 12 -Responsible Consumption and Production



1 NO POVERTY



2 ZERO HUNGER



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4 QUALITY EDUCATION



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8 DECENT WORK AND ECONOMIC GROWTH



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



10 REDUCED INEQUALITIES



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND



16 PEACE, JUSTICE AND STRONG INSTITUTIONS



17 PARTNERSHIPS FOR THE GOALS

				SDG 17- Partnerships for the Goals
30	Vishal Kumar Gupta, Ram Kumar, Raunak Dhanker, Shashank S. Kamble & Heba I. Mohamed	Sustainable Management of Floral Waste to Reduce Environmental Pollution by Conversion to Value-Added Products and Their Applications in the Synthesizing of Nanomaterials: a Review , Water, Air, & Soil Pollution,2024, 235, 436	India.  Ain Shams University, Cairo, Egypt	SDG 3- Good Health and Well-Being  SDG 9- Responsible Consumption and Production  SDG 11 - Sustainable Cities and Communities.  SDG 17- Partnerships for the Goals

## Bibliographic Databases

### ChEMBL

Open Access database of chemistry resources at European Bioinformatics Institute (EMBL-EBI).

### ChemSpider

ChemSpider is a free chemical structure database providing full-text and access to over 58 million structures from hundreds of data sources owned by the Royal Society of Chemistry.

### ChemSynthesis

ChemSynthesis is a freely accessible database of chemicals. There are currently more than 40,000 compounds and more than 45,000 synthesis references in the database.

### Civil Engineering Database (CEDB)

A free bibliographic database offering over 200,000 records of all publications by American Society of Civil Engineers.

### Collection of Computer Science Bibliographies

This is a collection of bibliographies of scientific literature in computer science from various sources, covering most aspects of computer science.

### DBLP Computer Science Bibliography

DBLP Provides bibliographic information on Computer Science. Indexes more than 1 million articles and also it contains 10,000 links to home pages of Computer Scientists.

### Education Resources Information Center (ERIC)





1 NO POVERTY



2 ZERO HUNGER



3 GOOD HEALTH AND WELL-BEING



4 QUALITY EDUCATION



5 GENDER EQUALITY



6 CLEAN WATER AND SANITATION



7 AFFORDABLE AND CLEAN ENERGY



8 DECENT WORK AND ECONOMIC GROWTH



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



10 REDUCED INEQUALITIES



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



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17 PARTNERSHIPS FOR THE GOALS

IndMED

IndMED – bibliographic database covering prominent peer reviewed 100 Indian medical journals bibliography.

PubMed

It is a database primarily of references and abstracts on life sciences and biomedical topics.

Indian Science Abstracts

Indian Science Abstracts (ISA) is a bibliographical database published by NISCAIR.

ACI Bibliographic Database

The Annual Comprehensive Index (ACI) Bibliographic Database contains approximately 38,818 journal bibliographic entries covering the years 1976 – 2001. The records for ACI were contributed by IFORS, publisher of International Abstracts in Operations Research (IAOR).

Emerald Insight Database

Emerald Insight includes journals and books relevant to a range of subject areas, including accounting and finance, management, marketing, education, information studies and engineering.

National Law School Article Index

NLSIR has regularly featured articles authored by judges of the Indian Supreme Court, senior counsels practicing at the Indian bar, and several renowned academics from national and foreign universities.

Institute of Physics Journals search

American Institute of Physics journals indexed in Scirus' science-specific searchengine. ... AIP is a leading publisher of physics research literature and serves to promote the advancement of physics knowledge world-wide

NASA Technical Reports Server (NTRS)

The NASA Technical Reports server (NTRS) is NASA's Agency-wide primary release avenue to the public for its research and development (RandD) final technical reports and other scientific and technical information. ... NASA Collection: Citations and documents created or sponsored by NASA

ASCE's Civil Engineering Database (CEDB)

ACM Computing Reviews

EBSCO MLA International Bibliography

Indian Science Abstracts

ISID Database- Institute for Studies in Industrial Development (ICSSR)

J-Gate Custom Content for Consortium (JCCC)

MathSciNet (Mathematical Reviews)

SciFinder

Scopus

Web of Science



## Collaboration for SDG Best Practice

During 2023–2024, GD Goenka University produced **approximately 30 international collaborative publications**, covering **10 different SDGs**. This demonstrates the university’s strong interdisciplinary engagement and commitment to global SDG-driven research.

### SDG-wise Publication Distribution

- SDG 3: 21 publications
- SDG 4: 3 publications
- SDG 6: 2 publications
- SDG 8: 2 publications
- SDG 9: 24 publications
- SDG 10: 1 publication
- SDG 11: 2 publications
- SDG 12: 18 publications
- SDG 13: 1 publication
- SDG 17: 25 publications

These numbers reflect that GDGU is highly active in producing SDG-relevant global research, especially in SDGs 3, 9, 12, and 17.

Additionally, **more than 40 global institutions** were part of collaboration activities, demonstrating strong international engagement and partnership diversity.

### 6. Impact and Way Forward

GD Goenka University’s contributions under SDG 17.2.4 highlight its commitment to promoting inclusive, equitable, and globally connected research ecosystems. By actively collaborating with international academic and research institutions, the university supports sustainable development through knowledge creation, capacity-building, and joint innovation. These partnerships empower researchers, students, and global communities to address pressing societal challenges with informed and effective solutions.

### Way Forward

#### GDGU aims to:

- Expand international collaborations to promote broader global engagement and inclusive growth.
- Strengthen research and development partnerships for greater global outreach and SDG-focused impact.
- Build long-term, sustainable linkages with international universities and institutions to enhance knowledge exchange and joint problem-solving.

Through these continued efforts, GD Goenka University reaffirms its role as a globally engaged institution contributing to the worldwide SDG Best Practice landscape.