17 PARTNERSHIPS FOR THE GOALS

Shoolini Universit



Shoolini University of Biotechnology and Management Sciences



Report on SDG 17: Partnership for the Goals

Universities have a unique and critical role in helping the world to achieve the SDGs through their research, teaching, operations, and community leadership. Shoolini University aims to contribute to the SDGs and highlight their importance at both national and sub-national levels. By framing research around the SDGs, we aim to create a global future that is fair and equitable, and provides prosperity within environmental constraints. A lot of research is going on at Shoolini University pertaining to SDGs like water, sanitation and hygiene, affordable and clean energy, industry innovation and infrastructure, life below water, life on land, climate action, responsible consumption and production, etc. The faculty members have secured competitive research grants from regional, national, and international funding agencies to work on some of the most important research areas.

Shoolini University aims to provide:

- 1. The necessary knowledge, solutions, technologies, and innovations needed to support the implementation of the SDGs by the global community.
- 2. Capacity building for developing nations in conducting research; cooperating with and assisting innovative companies in implementing SDG solutions.
- **3.** Improving diversity in research and training students for sustainable development research.

Relationships with regional NGOs and government for SDG policy

Shoolini University is actively engaged with a number of government agencies and non-governmental organizations (NGOs) at both national and sub-national levels to formulate policies and strategies related to SDGs and accelerate their adoption and implementation. Some of the highlighted interventions where the university is involved are mentioned below.

- 1. International Centre for Integrated Mountain Development (ICIMOD): Shoolini University is an active member of the International Centre for Integrated Mountain Development (ICIMOD) and the Himalayan University consortium (HUC) and is actively engaged in organising and participating in various policy-making initiatives. HUC partners also develop and adopt programmes aimed at training students on mountain issues and promoting research on Himalayan sustainability and climate change. Shoolini University regularly participates in the activities of HUC and has also organized an International Dialogue on Himalayan Ecology and a Sustainable Mountain Development Summit VII with a focus on the wellbeing of the next generation of farmers in the Himalayan Region. Hon'ble Chancellor of Shoolini University is an active member of the Himalayan University Consortium for Research and Development, which is an active body promoting research on Himalayan sustainability, climate change, and so on.
- Hon'ble Chancellor of Shoolini University is a very active member of the Association of Indian Universities, which is also a vital body giving directions to Indian universities regarding academic and

research. Shoolini University also organized a North Zone Vice Chancellors' Meet on the theme "Realizing SDGs through HEIs for ensuring Equality and Sustainable Society" on November 26-27, 2021. The meeting was primarily focused on the role of HEIs from the perspective of their contribution to achieving the SDGs. The discussion covered the global progress in achieving these goals; sharing knowledge, success stories, and good practices; and identifying particular areas of concern and main challenges related to SDGs adoption.

- 3. Shoolini University is a member of the **Confederation of Indian Industries (CII)**, Northern Regional Committee on Lifesciences and Biotech and the Northern Regional Committee on Education, which are working at the interface of industry and academia, providing directions on research, innovation, and infrastructure development.
- 4. At the regional level, Hon'ble Chancellor of Shoolini University is a member of the Department of Environment Science & Technology, Govt. of Himachal Pradesh, which works towards defining a direction for research and development in the area of environmental sciences and climate action.
- 5. The Hon'ble Vice Chancellor of Shoolini University is a regional co-chair of **ASSOCHAM** National Education, which is a prime body giving directions to the education sector.
- 6. MOU with FICCI Ladies Organisation: Shoolini University has also signed MOUs with FICCI Ladies Organisation, a non-government, non-profit organisation whose mission is to engage with policymakers and civil society in order to express the views and concerns of the business community and transform the participation of women in India's growth.
- 7. MOU with IHub DivySampark: Shoolini University and IHub DivySampark, a non-profit organisation, have signed a memorandum of understanding to create an innovative ecosystem in India by supporting translational research, providing training, building capacity, and developing policies to provide solutions for national strategic sectors.
- 8. MOU with **YouWeCan**: Shoolini University has signed a MOU with YouWeCan to take initiatives towards cancer research, awareness, patient support, and policy-making for better implementation and driving change. YouWeCan is a non-profit organisation which was set up in 2009 by cricket icon Yuvraj Singh, who is a cancer survivor and who has made a remarkable return to the Indian national cricket team after fighting cancer.
- 9. MOU with the Government of Himachal Pradesh: The Department of AYUSH, Government of Himachal Pradesh and Shoolini University have signed a MOU for the establishment of "Shoolini Yogananda AYUSH Medicity". The idea behind setting up the AYUSH Medicity is to revive the principles of ancient knowledge and healthcare policy making.
- 10. MOU with **International Coaching Federation (ICF)**: Shoolini University has partnered with the International Coaching Federation for a social impact project with a goal of creating empowered professionals from a group of less privileged students. Shoolini University actively takes part in policy making, initiatives, assessment and evaluation of the project.



MoU Signing Ceremony with YouWeCan



Shoolini University sign MoU with iHuB Divyasamapark to find solutions for issues concerning HP

Sr. No.	Name of NGOs/ government organization	Relationship of University/faculty with NGOs /government organization	SDG	Evidence
1	Himalayan UniversityConsortium (HUC) andInternational Centre forIntegrated MountainDevelopment (ICIMOD)	Membership	Climate Action, Quality Education, Responsible consumption and production	Link Link SDG Conference
2	Confederation of Indian	Membership	Industry, Innovation and	Link

	Industry (CII)		Infrastructure	
3	Association of Indian	Membership	Quality Education,	Link
	Universities (AIU)		Gender Equality,	
			Reduced Inequalities	
4	Association of Indian	Membership	Quality Education	Link
	Universities (AIU) research			
	committee			
5	Department of Environment	Membership: PK	Climate Action	Link
	Science & Technology, Govt.	Khosla (Chancellor)		
	of Himachal Pradesh			
6	ASSOCHAM	National Education -	Quality Education	Link
		Regional Vice Co-		
		Chair: Atul Khosla		
		(Vice Chancellor)		
7	FICCI Ladies Organisation	Memorandum of	Industry, Innovation and	Link
		Understanding (MOU)	Infrastructure; Gender	
			Equality	
8	IHub DivySampark,	Memorandum of	Quality Education	Link
	Technology Innovation Hub	Understanding (MOU)		
9	YouWeCan	Memorandum of	Good Health and	Link
		Understanding (MOU)	Wellbeing	
10	Department of Ayush,	Memorandum of	Good Health and	Link
	Government of Himachal	Understanding (MOU)	Wellbeing	
	Pradesh			
11	International Coaching	Memorandum of	Quality Education	Link
	Federation (ICF)	Understanding (MOU)		

Initiation and participation in cross-sectoral dialogue about the SDGs, e.g., conferences involving government/NGOs

Shoolini University is actively engaged in initiating and participating in cross-sectoral dialogue on the SDGs. Shoolini University aims to contribute to achieving the SDGs and emphasise the importance of SDGs in local, national, and global implementation. Six international seminars/conferences on sustainable development goals were held at Shoolini University in 2021.

 Shoolini University organised a two-day North Zone Vice Chancellors Conference in collaboration with the Association of Indian Universities on the theme "Realizing SDGs through HEIs for Ensuring Equality and Sustainable Society" from November 26 to November 27, 2021, covering interrelated SDGs-5, 10, 11, and 12. The discussions were primarily focused on the role of HEIs in achieving the SDGs. The discussions also included the global progress in achieving these sustainable development goals; sharing knowledge, success stories, and good practices; and identifying particular areas of concern and main challenges. The meeting also focused on identifying next steps and follow-up actions to be taken by HEIs, governments, and other stakeholders to achieve these goals.



North Zone Vice Chancellors Conference in collaboration with the Association of Indian Universities on the theme "Realizing SDGs through HEIs for Ensuring Equality and Sustainable Society"

2. Shoolini University hosted the 21st International Melow Conference on "Illness, Healing, and Literary Imagination" from November 12–14, 2021. The conference brought the issues and challenges of pandemics, disease, isolation, loneliness, vulnerability, regeneration, and hope to the fore. Scholars from India and other regions talked about the history and origins of diseases that have been plaguing people for thousands of years and are almost as old as humans.



21st International Melow Conference on "Illness, Healing, and Literary Imagination"

- 3. Shoolini University also organised two "Yogananda International Conferences on Contemporary Issues in Social Sciences" during the year 2021. The primary objective of these conferences was to provide opportunities for academicians, industry, practitioners, professionals, researchers, and policy makers from various fields of social sciences to engage in discussions on issues related to the dynamic and challenging economic environment.
- 4. To emphasise the importance of yoga for good health and wellbeing, the School of Ancient Indian Wisdom and Yogic Studies, Shoolini University, organised a Webinar Series of 21 Days from June 1–21, 2021 on the theme "Health and Happiness". The webinar series focused on highlighting the importance of ancient Indian philosophy and spirituality and disseminating yoga and its applications as solutions to major social challenges in the world. The webinar series also focused on promoting yoga and meditation as a natural way to treat different health problems and on how yoga can be used to improve mental health.



Webinar Series on the theme "Health and Happiness"

5. Shoolini University organised an "International Conference on Media and Law: The Quest for Equilibrium" from 20–21 May 2021 with the aim of discerning the legislative and institutional framework which guarantees freedom of expression, enhances the quality of journalism, and establishes pluralistic means of media reporting internationally. The conference also focused on finding solutions to problems and challenges that countries all over the world face. Various legal luminaires across the country participated and delivered expert talks.

Sr.	Name of the Event	Date of Event	SDG	Collaborating	Evidence	Report
No.				Organization		
1	Realizing SDGs	26 November to	Gender Equality,	Association of	Link	Link
	through HEIs for	27 November	Reduced Inequalities,	Indian Universities		
	ensuring Equality and	2021	Sustainable Cities	(AIU)	Link	
	Sustainable Society		and Communities,			
			Responsible		<u>Link</u>	

			Consumption and			
			Production			
2	21st International	12 November to	Good Health and	MELOW - The	Link	Link
	Melow conference on	14 November	Wellbeing	Society for the		
	"Illness, Healing and	2021		Study of the Multi-		
	Literary Imagination"			Ethnic Literatures		
3	2nd Yogananda	20 August to 21	Decent Work and	Govt. of Himachal	Link	Link
	International	August 2021	Ecconomic Growth	Pradesh		
	Conference on					
	Contemporary Issues					
	in Social Sciences					
4	Health and Happiness	1 June to 21	Good Health and	Health & Family	Link	Link
	series of webinar	June 2021	Wellbeing	Welfare		
				Department,		
				Government of		
				Himachal Pradesh		
5	International	20 May to 21	Peace, Justice and	Law Commission	Link	<u>Link</u>
	Conference Media and	May 2021	Strong Institutions	of India		
	Law: The Quest for					
	Equilibrium					
6	Yogananda	20 February	Decent Work and	Govt. of Himachal	Link	Link
	International	2021	Ecconomic Growth	Pradesh		
	Conference on					
	Contemporary Issuesin					
	Social Sciences					

Participation in international collaboration on gathering or measuring data for the SDGs

Shoolini University has an international partnership with several global universities to gather or measure data related to SDGs. These partnerships are built through joint research projects, Memorandum of Understanding (MOUs), and working with the community. By focusing research on the SDGs, we aim to create a global future that is inclusive, fair, and provides prosperity within environmental limits. Shoolini University has received a grant from National Geographic to study the scope and impacts of plastic waste and raise awareness among communities. Researchers are also working in collaboration with Lancaster University to understand the current status of the origin and dissipation of pharmaceutical and personal care product pollutants in the Himalayan Region. Shoolini University has published several internationally collaborative papers to gather data related to SDGs, and these partnerships substantially contribute to achieving the United Nations SDGs. Some of the projects in which the university has partnered with international institutions on gathering or measuring data for the SDGs are mentioned below.

S.	Title	Collaborating	SDG	Evid	Remarks
No.		institution/organiza		ence	
		tion			
1	What goes up must	National Geographic,	Climate	Link	The team documented social and
	come down: Himalayan	Health Care	Action		structural environmental behavioural
	Upstream plastic waste	Foundation Nepal,			shifts, analysed the scope and
	solutions that minimize	Zero waste Himalaya			impacts of plastic waste reduction
	downstream marine				projects, and raised awareness of
	inputs				community-led solutions and
					environmental behavioural change
					factors.
2	Tackling Pharmaceutical	Lancaster University	Climate	Link	This project aims to understand the
	and Personal Care		Action, Good		current status of origin and
	Product Pollutants in the		Health and		dissipation of pharmaceutical and
	North-Western		Wellbeing		personal care product (PPCP)
	Himalayan Region of				pollutants and people's perception of
	India				the issue in the Baddi-Barotiwala-
					Nalagarh (BBN) region, which is
					considered a major pharmaceutical
					hub in the Himachal Pradesh State of
					India.
3	Assessment of	The COVID-19 High	Good Health	Link	In this project, researchers screened
	phytochemicals present	Performance	and		phytochemicals for anti-CoVID19
	in Indian indigenous	Computing	Wellbeing		activity through interaction with
	plants through in silico	Consortium			CoVID19 specific targets using in
	methods for Covid19				silico methods such as molecular
	targeting and treatment				modeling.
4	Placed-based	Cranfield University,	Climate	Link	This study proposes a place-based
	interpretation of the	Université de Liège,	action, Life		approach to interpret the SDG
	sustainable development	Ministry of	on Land,		framework to support sustainable
	goals for the land-river	Education China,	Life Below		land/water management, by (i)
	interface	Peking University,	Water		identifying key priorities for
		Join For Water			sustainable development through a
		(Protos)			normative content analysis of the
					SDG targets, and (ii) illustrating
					these priorities and associated
					challenges within the LRI, based on a
					literature review and case-studies on
					human-environment interactions.

Iakes and catastrophic Rodos on the northerm stopes of the kyrgyz rangeSciences, Central- Asian Institute for Asian Institute for University, American University of Central Asia, Tribhuvan University of Central Asia, Tribhuvan University of Central Asia, Tribhuvan Universityaction and Euler and 2012 due to moraine collapse. Further, the findings highlight alarmingly rapid changes and a high probability that these lakes will burst soon.6Mega festivals like MuhaiKumbh, a largest mass congregation, ficilitated the ransmission of SARS- COV-2 to humans and endangered animals via contaminated waterNanyang Technological University, SingaporeGood Health and MelbeingLink and the callaborative work discusses the consequences of MahaKumbh festivals, the largest religious mass gathering on carth, which was held during the COVID-19 pandemic in India, and its impact on both the spread of SARS-COV-2 anong participants and their families and its influence on the quality of the river Ganga.7Impacts of environmental regulations on green economic growth in ChinaAnhui University of Technology. Shanghai University of Technology	5	Evaluation of glacial	Chinese Academy of	Climate	Link	This study aims to evaluate the
slopes of the kyrgyz range Applied Geosciences (CALAG), Khallikote University, American University of Central Asia, Tribhuvan University of the Kyrgyz range using semiautomated remote sensing and field techniques. The researchers recorded 273 glacial lakes and examined the characteristics of 5 small GLOFs that occurred between 2000 and 2012 due to moraine collapse. Further, the findings highlight alarmingly rapid changes and a high probability that these lakes will burst soon. 6 Mega festivals like MahaKumbh, a largest mass congregation, facilitated the songergation, facilitated the endargerd animals via contaminated water Nanyang Good Health and wellbeing Link the collaborative work discusses the consequences of MahaKumbh festivals, the largest religious mass gathering on earth, which was held during the COVTD-19 pandemic in India, and its imfluence on the quality of the river Ganga. 7 Impacts of environmental regulations on green economic growth in China Anhui University, of Finance and Economics Decent Work and economic growth in Hefei University, of Finance and Economics This study investigates the impact of environmental regulations on green economics of Sangapai University, of Finance and Economics This study investigates the impact of environmental regulations on green conversion and reversion—A global meta-analysis 8 Responses of soil greenhouse gas environmental reversion—A global Chimate action A global meta-analysis was action		lakes and catastrophic	Sciences, Central-	action		spatial distribution and growth of
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		reversion—A global				emissions to land use conversion or
temporal evolution, driving factors,		meta-analysis				reversion, and determine their
						temporal evolution, driving factors,

					and potential mechanisms.
9	Global challenges in microplastics: From fundamental understanding to advanced degradations toward sustainable strategies	Vietnam National University Hanoi, National Taiwan University Duy Tan University	Climate Action	Link	The study discusses the global challenges in microplastics, including the current production and use status of plastics and their impact on the environment.
10	Determination of the Physicochemical Quality of Groundwater and its Potential Health Risk for Drinking in Oromia, Ethiopia	Addis Ababa Medical and Business College, Jimma University	Clean Water and Sanitation	Link	This study aimed to determine the physicochemical quality of groundwater and its potential health risk for drinking in Ethiopia.
11	The role of renewable energy and natural resources for sustainable agriculture in ASEAN countries: Do carbon emissions and deforestation affect agriculture productivity?	Roma Tre University, University of Alberta, Anhui University of Finance and Economics	Affordable and Clean Energy, Responsible Consumption and Production	Link	This study provides policy recommendations for the governments of ASEAN economies on improving the environmental performance of agriculture and achieving the SDGs by 2030.
12	Contamination, exposure, and health risk assessment of Hg in Pakistan	Beijing Normal University, University of Swat, King Saud University, Universiti Kebangsaan	Good Health and Wellbeing	Link	This study aimed to assess the environmental and health risks related to Hg. Seventy studies related to Hg in environmental media, aquatic biota, and food stuffs across Pakistan were reviewed, and their concentrations were used for ecological and human health risk assessments.
13	Solar Energy in Nigeria - Status, Utility and Procurement	Hassan Usman Katsina Polytechnic	Affordable and Clean Energy	<u>Link</u>	This aim of the study was to study of six zones of Nigeria and its potential to generate green energy in the country.

14	A survey on	Parque Tecnológico	Life on Land	Link	This survey was conducted to
	ethnoveterinary	de Galicia,			document the contemporary
	medicines used by the	Universidad de Vigo,			ethnoveterinary knowledge of Gaddi
	tribal migratory	Albrecht's University			shepherds living in Northwestern
	shepherds of				Himalayan region.
	Northwestern Himalaya				
15	Era connecting	Assiut University	Responsible	Link	This study explore the potential for
	nanotechnology with		Consumption		advancement in agri-nanotechnology
	agricultural		and		with new-age nanomaterials, while
	sustainability: issues and		Production		discussing the advantages and
	challenges				disadvantages of the same.
16	Accumulation pattern	King Abdulaziz	Clean Water	Link	This study aims to assess the
	and risk assessment of	University,	and		pollution levels and potential
	potentially toxic	University of	Sanitation		ecological risks of PTEs (As, Cr, Cd,
	elements in selected	Wuppertal, Taif			Cu, Ni, Mn, Pb and Zn) in
	wastewater-irrigated	University, King			wastewater-irrigated arable soils and
	soils and plants in	Saud University,			different edible-grown plants in
	Vehari, Pakistan	COMSATS			selected areas of Vehari, Pakistan.
		University Islamabad			
17	Changing Dynamics of	The University of	Good Health	Link	The study examine the effect of the
	SARS-CoV-2: A Global	Manchester, The	and		transmissibility and infectious
	Challenge	University of Suwon,	Wellbeing		potential of the virus due to various
		Kwangwoon			mutations of SARS-CoV-2,
		University, The			especially in the receptor-binding
		University of Suwon			domain (RBD). The study discusses
					the role of genome sequencing in
					tracing all the mutations and the
					importance of the R value
					(reproductive number) to understand
					the virus spread.
18	Prospects of sustainable	University of New	Affordable	Link	The main objective of the study is to
	photovoltaic powered	South Wales, Sydney	and Clean		explore the potential of PV-powered
	thermoelectric cooling		Energy		thermoelectric technology as a
	in zero energy buildings				distributed air-conditioning system in
					buildings.
19	Biohydrogen production	Adekunle Ajasin	Decent Work	Link	This study aims to examine the
	and its bioeconomic	University, Ladoke	and		significance and impact of
	impact	Akintola University	Economic		biohydrogen on the bioeconomy.
		of Technolog,	Growth		
		University of Ibadan,			

		University of Ilorin			
20	Sustainable chemical	Ben-Gurion	Good Health	Link	The study highlighted the sustainable
	preventive models in	University of the	and		chemical preventive models for
	COVID-19:	Negev, New Jersey	Wellbeing		COVID-19.
	Understanding,	Institute of			
	innovation, adaptations,	Technology, Pusan			
	and impact	National University,			
		Royal Institute of			
		Technology			
21	World eutrophic	Najran University,	Climate	Link	This study provides a complete
	pollution of lake and	Lanzhou University,	Action		eutrophication-based characterization
	river: Biotreatment	Indiana University			of lakes and rivers all over the world
	potential and future				is provided. Different cost-effective
	perspectives				and efficient bio-remediations to
					control point and non-point pollution
					are discussed.
22	Environmental impact	King Saud	Climate	Link	This study highlights the necessity of
	of COVID-19 Vaccine	University, King	Action		opting sustainable solutions of
	waste	Abdulaziz			disinfecting and substituting
		University, New			vaccination tools for an environment
		Jersey Institute of			friendly ongoing vaccination
		Technology			campaign.
23	Revisiting conventional	Griffith University	Decent Work	Link	The study examine the causality and
	and green finance		and		spillover effects between NASDAQ
	spillover in post-COVID		Economic		clean energy indexes and their
	world		Growth		corresponding alternatives.

Collaboration for SDG best practice through international collaboration and research, review comparative approaches and develop international best practice on tackling the SDGs

International collaboration has become an important 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 SGDs. 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, Shoolini University has signed memorandums of understanding (MOUs) with several institutions across the world. Shoolini University has also published several internationally collaborative papers with some of the leading institutions in attaining Sustainable Development Goals. As per the data retrieved from Scopus and SciVal (using query strings for SDGs), Shoolini University

has published 239 papers on SGDs in the year 2021. These papers have received citations per publication of 13.6 with a field weighted citation impact of 2.47. Sixty-six percent of these papers have been published in collaboration with some of the leading universities in 61 different countries. The collaborations in most cases have benefited both the partners with the research getting published in higher impact journals and receiving more citations. Shoolini 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.

	Year : 2021						
	Data source: Scopus, Scival						
	Date last updated: 19 October 2022						
	Date exported: 27 October 2022						
	Query	string used: http	s://data.mendeley.com	/datasets/87txkw7khs/1			
Entity	SDG	International Collaborative Papers	Top collaborating countries by publication output	Top collaborating institutions by publication output			
SDG 3	Good Health and Well- being	80	Australia: 22 Malaysia: 21 United Kingdom: 17 United States: 16 Saudi Arabia: 15 South Korea: 14 China: 11 Iran: 11 Germany: 9 Czech Republic: 8	University of Technology Sydney: 19 Lovely Professional University: 17 International Medical University: 16 University of Newcastle: 14 Hunter Medical Research Institute: 12 Ulster University: 8 University of Hradec Kralove: 7 Pontificia Universidad Católica de Chile: 6 Charles University: 5 Clemson University: 5			
SDG 6	Clean Water and Sanitation	55	Saudi Arabia: 22 China: 17 Viet Nam: 17 Iran: 15 South Korea: 15 Malaysia: 13 United Kingdom: 11 South Africa: 5 United Arab Emirates: 5 United States: 5	King Saud University: 15 Duy Tan University: 11 Scotland's Rural College: 10 Shenzhen University: 10 Universiti Kebangsaan Malaysia: 9 Yonsei University: 7 King Abdulaziz University: 6 Binh Duong University: 4 Islamic Azad University: 4 Korea University: 4			
SDG 7	Affordable and Clean Energy	35	Viet Nam: 16 China: 14 Saudi Arabia: 12 South Korea: 8 United Kingdom: 7 Iran: 5 South Africa: 4 Germany: 3 Italy: 2 Malaysia: 2 Russian Federation: 2	Duy Tan University: 12 King Abdulaziz University: 8 Scotland's Rural College: 7 Ton Duc Thang University: 7 Binh Duong University: 6 Institute for Computational Science and Technology: 4 Lanzhou University: 4 King Saud University: 3 Korea University: 3 Nguyen Tat Thanh University: 3			

SDG 13	Climate Action	15	Viet Nam: 12 Saudi Arabia: 7 China: 6 United Kingdom: 6 South Korea: 4 Malaysia: 2 United Arab Emirates: 2 France: 1 Germany: 1 Iran: 1 United States: 1	Duy Tan University: 11 King Abdulaziz University: 6 Scotland's Rural College: 6 Ton Duc Thang University: 6 Institute for Computational Science and Technology: 4 Binh Duong University: 3 Korea University: 3 Nanjing Forestry University: 2 Nguyen Tat Thanh University: 2 University of Da Nang: 2 Vietnamese Academy of Science and Technology: 2 Aix-Marseille Université: 1
SDG 12	Responsible Consumption and Production	11	China: 5 Saudi Arabia: 4 Portugal: 3 South Korea: 3 Viet Nam: 3 Czech Republic: 2 Egypt: 2 Iran: 2 United Kingdom: 2 Denmark: 1	King Saud University: 3 Shenzhen University: 3 Charles University: 2 Lovely Professional University: 2 Nguyen Tat Thanh University: 2 Scotland's Rural College: 2 University of Hradec Kralove: 2 University of Porto: 2 Aarhus University: 1 Agricultural Research Center, Giza: 1
SDG 15	Life on Land	9	Germany: 3 South Korea: 3 Egypt: 2 Ethiopia: 2 Russian Federation: 2 Saudi Arabia: 2 South Africa: 2 United States: 2 Bangladesh: 1 China: 1	Kafrelsheikh University: 2 King Abdulaziz University: 2 People's Friendship University of Russia: 2 RAS - Joint Institute for High Temperatures Research: 2 Sejong University: 2 University of Wuppertal: 2 Ben-Gurion University of the Negev: 1 Cairo University: 1 Clemson University: 1 Damascus University: 1
SDG 11	Sustainable Cities and Communities	5	Saudi Arabia: 3 Greece: 2 Malaysia: 2 South Korea: 2 Australia: 1 China: 1 Egypt: 1 Finland: 1 Germany: 1 Russian Federation: 1	King Saud University: 2 Universiti Kebangsaan Malaysia: 2 Universiti Kebangsaan Malaysia: 2 Aristotle University of Thessaloniki: 1 Kafrelsheikh University: 1 King Abdulaziz University: 1 Lappeenranta University of Technology: 1 People's Friendship University of Russia: 1 RAS - Joint Institute for High Temperatures Research: 1
SDG 2	Zero Hunger	4	Egypt: 2 Saudi Arabia: 2 Argentina: 1 Bangladesh: 1 Belgium: 1 China: 1	Agricultural Research Center, Giza: 1 Cairo University: 1 Charles University: 1 Consejo Nacional de Investigaciones Científicas y Técnicas: 1 Institute of Animal Reproduction and

			Czech Republic: 1	Food Research of the Polish Academy of
			Germany: 1	Sciences: 1
			Pakistan: 1	Kafrelsheikh University: 1
			Poland: 1	Karpagam Academy of Higher
				Education: 1
				King Abdulaziz University: 1
				Nanjing Agricultural University: 1
				Northwest Agriculture and Forestry
				University: 1
				Polish Academy of Sciences: 1
SDG 14	Life Below	1	Sri Lanka: 1	University of Sri Jayewardenepura: 1
	Water			
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		Intellectua	l Properties SA, used un	der license.

Memorandum of understanding (MoU) signed with global universities during the year 2021

Sr. No	Name of the University	Country	Date of signing of	Link
			MOU	
1	Info Link College	Ethiopia	19/04/2021	Link
2	Pharma College Ethiopia	Ethiopia	08/09/2021	Link
3	Mizan - Tepi University	Ethiopia	13/09/2021	Link
4	University of Nigeria	Nigeria	11/09/2021	Link
5	American International University	Bangladesh	12/09/2021	Link
6	Soka University	Japan	30/11/2021	Link
7	Institute of Advanced Materials,	Sweden	25/10/2021	Link
	Sweden			



MoU Signing Ceremony with Mizan - Tepi University

Student Exchange Program Year-2021

S.No	Name of	Program	Name of	Country	Date of	Link
	Students		University		Leaving	
1	Kumari Garima	M.Sc. Microbiology	University of	Italy	01-Feb-21	Link
	Singh		Naples			
2	Karan Negi	M.Sc. Microbiology	University of	Italy	01-Feb-21	Link
			Naples			
3	Himani Chandel	M.Sc. Microbiology	University of	Italy	02-Feb-21	Link
			Naples			
4	Raj Akshat	M. Tech	University of	Italy	01-Feb-21	Link
		biotechnology	Naples			

Research centers and centres of excellence established in areas relevant to the SDGs

• Centres of Excellence:

- 1. Centre for Excellence in Visionary Learning Community of India (VLCI)
- 2. Centre of Excellence in Informatics, Artificial Intelligence and Data Analytics
- 3. Centre of Excellence Himalayan Sustainability, Cancer Research, Yoga
- 4. Centre of Excellence in Energy Science and Technology

• Research centers:

- 1. Research Centre on Nanotechnology
- 2. Research Centre in OMICS and Biodiversity Research
- 3. Research Centre in Automobile Engineering
- 4. Research Centre in Yoga
- 5. Research Centre in Disaster Management
- 6. Research Centre in Data Analytics
- 7. International Research Centre of Nanotechnology for Himalayan Sustainability (IRCNHS)
- 8. Centre of Post Graduate Legal Studies

Collaboration with NGOs for SDGs

Collaboration between NGOs and universities is an important approach to operationalizing the integrated and universal nature of sustainable development goals. NGOs can also play an important role in contributing directly via the implementation of their projects. Shoolini University has collaborated with several NGOs to support their awareness-raising campaigns and has achieved outstanding results in

achieving many goals relevant to the SDGs. Factors like environmental protection, health and hygiene, and education for the masses are some of the factors that count for nation-building. The University regularly conducts activities with YouweCan, Care n Share, Healing Himalayas, Mahadevi Charitable Trust, Indian Association of Muscular Dystrophy, Foundation for a Drug-Free World, and the Red Cross Society. Awareness and detection camps mainly for breast, cervical and oral cancer have been organised in various towns in collaboration with cricketer Yuvraj Singh's Cancer Foundation "YouWeCan". The university bears immense enthusiasm in serving the environment and has been participating and inculcating a habit of responsible waste-management among its students through active participation in the cleaning drives conducted by "Healing Himalayas". Regular cleanliness drives, including cleaning and maintenance of local water bodies, are also organised in the neighbouring village. Plantation drives are organised in and around the campus, and more than 15,000 saplings of different species of trees like Deodar, Oak, and other ornamental varieties have been planted and nurtured with the support of various NGOs. Shoolini's trained volunteers, in collaboration with the "Foundation for a Drug-Free World," organise campaigns on drug abuse and tobacco use and make an effort to combat the spreading menace of drugs and tobacco through street plays, counselling sessions, and student interactions. Shoolini University is engaged and committed towards the cause of muscular dystrophy and supports various camps organised by the "Indian Association of Muscular Dystrophy" at Manav Mandir. Shoolini University also organises online sessions for poor children and book donation drives in collaboration with "Mahadevi Charitable Trust" to establish libraries for poor children. Shoolini University also contributed significantly towards COVID relief by donating items, medical equipment, and supporting healthcare workers to fight the COVID-19 pandemic jointly.



Shoolini University Volunteers at camps organised by the "Indian Association of Muscular Dystrophy" at Manav Mandir.



Cleaning drive with "Healing Himalayas"



Awareness campaign on cancer in collaboration with "YouWecan"

S.No ·	Name of the activity	Name of the collaborating NGO/ government recognised bodies	SDG	Link
1	Campaigns to restore the environment.	Healing Himalayas	Climate Action	Link Link
2	Cancer awareness	YouWeCan	Good Health and Wellbeing	Link Link

3	Awareness campaign on Drug Abuse and Drug Addiction	Foundation for a Drug- Free World	Good Health and Wellbeing	<u>Link</u>
4	Book donation drive	Mahadevi Charitable Trust	Quality Education	Link
5	Contribution towards Covid- 19 relief	Department of health and family welfare, H.P.	Good Health and Wellbeing	Link Link
6	Contribution towards Covid- 19 relief	Dr Yashwant Singh Parmar Hospital, Nahan	Good Health and Wellbeing	Link
7	Patient support camps at "Manav Mandir"	Indian Association of Muscular Dystrophy	Good Health and Wellbeing	Link Link

Education for SDGs commitment to meaningful education

The role of universities is vital to achieving the SDGs because of their focus and impact. Shoolini University is committed to meaningful education around various SDGs and is actively engaged in education, research, and community participation, which are all crucial to the transformation of individuals and society toward a more sustainable future. The University collaborates with local and global organizations on sustainability initiatives to raise awareness of the SDGs. By engaging directly with social entrepreneurs, employers, and industry, Shoolini University aims to provide practical solutions for sustainable development. Shoolini University aspires to be a role model for other universities in the adoption of sustainable development pedagogies and curricula. We are amongst the first few universities in India to implement a choice-based credit system and have made open electives mandatory for all the UG students across the university (list of open-electives attached). These open elective courses are generic in nature and are basically designed around one or more of the SDGs. In addition, many programmes being offered at Shoolini University (UG, PG, and Doctoral) have a very strong research component in them, and the research policy of the university also focuses on the sustainable development of the Himalayan Region (research Policy Attached). When assigning research projects to students, we emphasise that the research problem must be in line with our research policy in order to work on the sustainable development of the Himalayan Region. Shoolini University encourages its students to engage in a variety of SDG-related activities and motivates its students to become future leaders in the quest to achieve sustainable development goals (social projects report attached). In order to sensitise the students, Shoolini university have included social projects as part of curriculum of Faculty of Management Sciences and Liberal Arts. As part of social projects, the social problems pertaining to SDGs are assigned to the students. In addition, we also have a university wide credit programme called SPRINT where we sensitise students on various issues including SDGs (SRRINT booklet attached). "Parivartan" is an educational initiative run by the students of Shoolini University through which our students teach the children of daily wage employees.

Education for SDGs: specific courses on sustainability

Shoolini University offers various courses in Biotechnology and Pharmaceutical Sciences, Energy, Food Technology, Agriculture, Sciences, Engineering, Liberal Arts, Law, Yoga, and Management that address

sustainability and the SDGs. We are amongst the first few universities in India to implement a choice-based credit system and have made open electives mandatory for all the UG students across the university (**List of courses and open-electives attached**). The courses offered as part of open electives were designed keeping in mind The SDGs like like Decent work and Economic Growth, Good Health and Wellbeing, Peace, Justice and Strong Institutions, Reduced Inequalities, Zero Hunger, Responsible Consumption and Production, Industry, Innovation, and Infrastructure, Climate Action, Affordable and Clean Energy, Reduced Inequalities etc. The list of courses and open electives and how they relate to the different SDGs is mentioned below.

Sr. No.	Elective Code	Open Elective Name	SDG	
1	OE013	Values and Ethics	Decent work and Economic Growth	
2	OE011	Digital Marketing	Decent work and Economic Growth	
3	OE054	Network Marketing	Decent work and Economic Growth	
4	OE014	Introduction to Psychology	Good Health and Wellbeing	
5	OE044	Law in Daily Life	Peace, Justice and Strong Institutions	
6	OE010	Sex Education	Good Health and Wellbeing	
7	OE019	Food & Nutrition	Good Health and Wellbeing	
8	OE020	Drug Abuse	Good Health and Wellbeing	
9	OE070	Winning Hackathons	Industry, Innovation, and Infrastructure	
10	OE075	Cyber Crime & Defense	Peace, Justice and Strong Institutions	
11	OE049	Robotics & Automation	Industry, Innovation, and Infrastructure	
12	OE005	Himalayan Biodiversity	Climate Action	
13	OE009	Biology of Human Body	Good Health and Wellbeing	
14	OE017	Spirituality and Meditation	Good Health and Wellbeing	
15	OE052	Yoga in Daily Life	Good Health and Wellbeing	
16	OE068	Yoga for Wellness	Good Health and Wellbeing	
17	OE003	History and Introduction to Automobiles	Industry, Innovation, and Infrastructure	
18	OE038	Grooming & Hospitality Skills	Decent work and Economic Growth	
19	OE059	Developing Patents	Industry, Innovation, and Infrastructure	
20	OE071	Practical Farming	Responsible Consumption and Production	
21	OE078	Direct Selling Entrepreneurship	Decent Work and Economic Growth	
22	OE080	Microorganisms for Human Welfare	Good Health and Wellbeing	
23	OE079	Introduction to Indian Constitution	Peace, Justice and Strong Institutions	
24	OE027	Total Quality Management	Decent work and Economic Growth	
25	OE002	Non-conventional Energy Sources	Affordable and Clean Energy	
26	OE006	Nanotechnology and Nanoscience	Industry, Innovation, and Infrastructure	
27	OE063	Social Challenges & Their Resolutions	Reduced Inequalities	
28	OE081	Ecology and Environment	Climate Action	

List of open electives:

List of courses:

S. No.	Course	SDG
1	PhD Alternative Dispute Resolution	Peace and Justice Strong Institutions
2	PhD Agriculture (Agronomy, Agricultural Extension Education, Entomology, Plant Pathology, Soil Science, Plant Breeding and Genetics)	Responsible Consumption and Production, Zero Hunger
3	PhD Applied Economics	Decent Work and Economic Growth
4	PhD Cancer Biology	Good Health and Well-being
5	PhD Civil Engineering	Sustainable Cities and Communities
6	PhD Disaster Management	Climate Action
7	PhD Economics	Decent Work and Economic Growth
8	PhD Energy	Affordable and Clean Energy
9	PhD Environmental Sciences	Climate Action
10	PhD Food Technology	Responsible Consumption and Production, Zero Hunger
11	PhD Human Rights	Peace and Justice Strong Institutions
12	PhD IPR	Industry, Innovation and Infrastructure
13	PhD Legal Sciences	Peace and Justice Strong Institutions
14	PhD Pharmaceutical Sciences (Pharmaceutics, Pharmacology, Medicinal Chemistry, Pharmacognosy, Pharmaceutical Chemistry)	Good Health and Well-being
15	PhD Psychology	Good Health and Well-being
16	PhD Public Relations	Peace and Justice Strong Institutions
17	PhD Water Management	Clean Water and Sanitation
18	PhD Yoga	Good Health and Well-being
19	PhD Biotechnology	Good Health and Well-being
20	PhD Microbiology	Good Health and Well-being
21	LLM	Peace and Justice Strong Institutions
22	M Pharma Pharmaceutics	Good Health and Well-being
23	M Pharma Pharmacognosy	Good Health and Well-being
24	M Pharma Pharmacology	Good Health and Well-being
25	M Pharmacy Pharmaceutical Chemistry	Good Health and Well-being
26	M Tech Civil	Sustainable Cities and Communities
27	M Tech Climate Science and Sustainable Development	Climate Action
28	M Tech Energy Technology	Affordable and Clean Energy
29	M Tech Food Technology	Responsible Consumption and Production, Zero Hunger
30	MA/ MSc Psychology	Good Health and Well-being
31	MBA Food Technology	Responsible Consumption and Production, Zero Hunger
32	MBA International Relations	Partnerships for the Goals
33	MBA Pharma and Healthcare Management	Good Health and Well-being
34	MSc Agriculture (Agricultural Economics)	Decent Work and Economic Growth
35	MSc Agriculture (Agricultural Extension Education, Agronomy, Entomology, Plant Breeding & Genetics, Plant Pathology, Soil Science)	Responsible Consumption and Production, Zero Hunger
36	MSc Environmental Sciences	Climate Action

37	MSc Food Technology Research	Responsible Consumption and Production, Zero Hunger
38	MSc Nutrition and Dietetics	Good Health and Well-being
39	MSc Yoga	Good Health and Well-being
40	M Tech Biotechnology	Good Health and Well-being
41	MBA Biotechnology	Good Health and Well-being
42	MSc Biotechnology Research	Good Health and Well-being
43	MSc Microbiology Research	Good Health and Well-being
44	MBA Digital Marketing	Decent Work and Economic Growth
45	MBA Marketing	Decent Work and Economic Growth
46	B Tech Food Technology Research	Responsible Consumption and Production, Zero Hunger
47	B Tech Renewable Energy	Affordable and Clean Energy
48	BA (Hons) Liberal Arts Economics and Finance	Decent Work and Economic Growth
49	BA (Hons) Liberal Arts Psychology and Counseling	Good Health and Well-being
50	BA/ BSc Behavioural & Neuro Psychology	Good Health and Well-being
51	BSc (Hons) Agriculture	Responsible Consumption and Production, Zero Hunger
52	BSc (Hons) Food Technology Research	Responsible Consumption and Production, Zero Hunger
53	BSc Nutrition and Dietetics	Good Health and Well-being
54	BSc/ BA Yoga	Good Health and Well-being
55	B Pharmacy	Good Health and Well-being
56	B Tech Civil	Sustainable Cities and Communities
57	BALLB	Peace and Justice Strong Institutions
58	BBA (Rural Management)	No Poverty, Zero Hunger
59	B Tech Biotechnology Research	Good Health and Well-being
60	BSc (Hons) Biotechnology Research	Good Health and Well-being
61	BSc (Hons) Industrial Microbiology	Good Health and Well-being
62	BSc (Hons) Microbiology Research	Good Health and Well-being
63	BBA Digital marketing	Decent Work and Economic Growth

Education for SDGs in the wider community

Under the banner of Program "Jagriti" we offer dedicated outreach educational activities for wider community including our alumni, local residents and displaced people. As part of our association with YuWeCan we regularly organise various activities related to cancer awareness for local residents and displaced people. We also organise various activities in and outside campus for gender sensitization and equality. During the covid times in 2021 we have also organised various educational and outreach activities on issues related to physical and mental health. We have also adopted primary health centres nearby and helped them to be fully equipped with oxygen cylinders and oxygen concentrators to fight the Covid-19 outbreak in the community. We also contribute to the wellbeing of senior citizens and under privileged section of the society by programmes like celebrating grandparent's day, Dhan Utsav and fund raiser for various societal activities. Some of the dedicated outreach educational activities for the wider community organised during 2021 under the banner of Program "Jagriti" are mentioned below. **Ideas That Matter** is a

collaborative platform by Shoolini University that connects forward-thinking schools, academia, students, scientists, industry leaders, public figures, cultural icons, and all with the spirit of innovation. To enable outof-the-box thinking, we organize programs, webinars, masterclasses, and other creative adventures to stimulate their minds. We want to light the way to a better future! We want to create an environment where ideas travel and creativity blossoms. Through our initiatives, we want to equip and energize the education fraternity.

Social Activities (JAN-DEC 2021)				
Sr. No.	Title of the activity	Date		
1	Cultural Activity at Manav Mandir	January 09, 2021		
2	Social Activity at Manav Mandir	January 22 to 24, 2021		
3	A Guru Talk with Sarabjeet Singh on World Cancer Day	February 04, 2021		
4	Cricket tournament on World cancer day	February 04 to 05, 2021		
5	Food Stalls for Fund raising- World Cancer Week	February 05, 2021		
6	Zumba for a Cause- World Cancer Week	February 06, 2021		
7	A-z of being cancer smart	February 07, 2021		
8	Musical Evening "Rock for a Cause"	February 07, 2021		
9	A cleanathon with Healing Himalayas	March 07, 2021		
10	A talk on overall health and hygiene on Women's Day	March 08, 2021		
11	"Can Survive – A Ray of Hope" A play on breast cancer on Women's Day	March 08 and 09, 2021		
12	Visit to Manav Mandir on international Happiness Day	March 20, 2021		
13	NIC Camp in Rajasthan	March 20 to 26, 2021		
14	Book Reading Event	April 01, 2021		
15	Event at Mahadevi Library and Fund-Raising	April 02, 2021		
16	Talk on gender equality by Mx. Dhananjay Chauhan	June 25, 2021		
17	YouWeCan bikers visit for "Mission 1000 Beds"	July 09, 2021		
18	Gender Equality Talk by Devika Mangal Mukhi	July 13, 2021		
19	Finding inclusivity in Society- Talk by Minal	July 31, 2021		
20	Discussion on Climate Change	August 05, 2021		
21	"On Top of the World" with Amit Negi	August 06, 2021		
22	A Visit to IAMD Centre	August 08, 2021		
23	Youth's Spiritual Awakening	August 12, 2021		
24	Cleaning Drive at Shimla	August 14, 2021		
25	Mission Freedom from Hunger Day 1	August 14, 2021		
26	Mission Freedom from Hunger Day 2	August 15, 2021		
27	Guru Talk- Solving Women related Issues	August 17, 2021		
28	Gun Ki Ser- Clean-up	August 29, 2021		

29	Doctors Meeting with Girls at Girls' Hostel	August 30, 2021	
30	Meeting with Deep Bajaj	August 31, 2021	
31	Book Release at Manav Mandir	September 02, 2021	
32	World Literacy Day- Event at Shoolini	September 08, 2021	
33	World Literacy Day- Event at Mahadevi Library	September 08, 2021	
34	Social Activity at Manav Mandir	September 09, 2021	
35	Session by YCT on Ganesh Chaturthi	September 10, 2021	
36	First NSS Meeting for the term	September 15, 2021	
37	Online education for underprivileged students at Mahadevi Library	September 20 to December 04, 2021	
38	Social Project with Mudita Foundation	September 27 to December 11, 2021	
39	Tree plantation and Cleaning Drive	October 02, 2021	
40	Gandhi Jayanti Poster Making	October 02, 2021	
41	Daan Utsav at Solan	October 02 to October 08, 2021	
42	Animal Welfare Day	October 04, 2021	
43	World Mental Health Day	October 10, 2021	
14	Talk on Menstrual Hygiene	October 13, 2021	
45	Peddals- A Ride for Breast Cancer Awareness	October 16, 2021	
46	Cleaning of Natural Water Resource	October 16, 2021	
47	Animal Lovers Club Meeting	October 18 & 19, 2021	
48	Breast Cancer Awareness	October 20, 2021	
49	Fashion Show on Cancer Awareness	October 23, 2021	
50	Standup against Street Harassment	October 28, 2021	
51	Ekta Diwas	November 13, 2021	
52	Mattress Making Event by Animal Lovers Club	November 08, 2021	
53	Children's Day Donation Drive	November 13 & 14, 2021	
54	Painting of Primary School on Children's Day	November 14 & 15	
55	Workshop on HIV AIDS with Red Ribbon Club	November 18, 2021	
56	A bicycle ride on International Men's Day	November 19, 2021	
57	Talk On Prostate Cancer	November 22, 2021	
58	Ashwani Khadd Cleaning with Cleaning Himalayas	November 21, 2021	
59	Selfie challenge for Prostate Cancer Awareness	November 24, 2021	
50	Ladies visit to Manav Mandir	November 24, 2021	
51	International Day of People with Disability	December 03, 2021	
52	International Day of Volunteers	December 05, 2021	
53	Paying Homage to Gen Rawat	December 09, 2021	
64	Thanksgiving	December 09, 2021	
55	Odha Do Zindagi	December 09 & 10, 2021	
56	Fundraising for our paws	December 10, 2021	
57	Cupcake activity for Cancer awareness	December 12 & 13	
58	Christmas celebration in School	December 23, 2021	
69	Christmas celebration in Shoolini	December 24, 2021	

Ideas That Matter – Shoolini University

	Social Activities (JAN-DEC 2021)					
Sr. No.	Title of the activity	Year	Link			
1	Ideas That Matter Artificial Intelligence	2021	https://www.youtube.com/watch?v =-jdPywxkNx0			
2	CV Raman Young Researchers Program	2021	https://www.youtube.com/watch?v =bKuE3KL5b6I			
3	Ideas That Matter Finding Success Within	2021	https://www.youtube.com/watch?v =Wa61sx2m6zk&list=PL427Ao6J -cXMmQJSwamm4ezAe3Vrg- 7v8&index=4			