Shoolini University

SUSTAINABLE DEVELOPMENT GOALS

Education for SDGs

Commitment to Meaningful Education

2025

4 QUALITY EDUCATION

Learn | Empower | Transform



Shoolini University of Biotechnology and Management Sciences,
Solan, Himachal Pradesh, India-173229

17.4.1 Education for SDGs commitment to meaningful education

Shoolini University is strongly committed to providing **high-quality education aligned with the United Nations Sustainable Development Goals (SDGs)**. The University recognises the importance of integrating sustainability into education to equip students with the knowledge, skills and values needed to address global challenges and contribute to a more inclusive, equitable and sustainable future. This commitment is reflected in its academic framework, research priorities and community engagement initiatives, which connect classroom learning with practical applications and societal needs.

To promote education for sustainable development, the University has implemented a **choice-based credit system that provides undergraduate students with opportunities to select open elective courses addressing sustainability and specific SDGs**. These courses help students develop a broader understanding of issues such as environmental protection, social inclusion, responsible resource use and sustainable development.

Beyond formal classroom teaching, Shoolini University extends its **commitment to meaningful education through workshops, extracurricular activities, research initiatives and community outreach programmes**. These activities provide students with opportunities for experiential learning, teamwork, leadership development and active participation in addressing community needs. During 2025, students engaged in social and community-based initiatives designed to strengthen social responsibility, civic awareness and practical problem-solving skills. Initiatives such as Project Pragati, implemented in collaboration with **International Coaching Federation (ICF),** demonstrate how learning and skills development can relate to rural women's entrepreneurship and livelihood opportunities. Such activities enable students to understand the practical relevance of sustainable development while engaging with communities and contributing to positive social outcomes.

The following initiatives demonstrate Shoolini University's dedication to advancing Education for the SDGs:

1. Integration of SDGs into the Curriculum

Shoolini University integrates the United Nations Sustainable Development Goals (SDGs) into its academic programmes at doctoral, postgraduate, and undergraduate levels. Its diverse academic offerings aim to develop specialised knowledge, professional competencies, and an interdisciplinary understanding of global sustainability challenges. These programmes address

key areas such as quality education, good health and well-being, clean water and sanitation, affordable and clean energy, climate action, zero hunger, economic growth, industrial innovation, environmental protection, and strong institutions.

The University's commitment to sustainable development is reflected in programmes across disciplines, including Energy Technology, Environmental Sciences, Water Management, Agriculture, Food Technology, Biotechnology, Pharmaceutical Sciences, Psychology, Civil Engineering, Economics, Human Rights, and International Relations. These programmes contribute to addressing critical challenges such as climate change, food security, public health, water resource management, renewable energy, technological innovation, and inclusive socio-economic development. At the doctoral level, programmes such as PhD in Energy, Environmental Sciences, Water Management, Agriculture, Cancer Biology, and Disaster Management support advanced research and specialised expertise in areas directly relevant to the SDGs.

LIST OF PROGRAMMES ADDRESSING SUSTAINABLE DEVELOPMENT GOALS

S. No.	**Programme Name**	**Relevant SDG(s)**
1	PhD Energy	SDG 7: Affordable and Clean Energy
2	PhD Environmental Sciences	SDG 13: Climate Action
3	PhD Water Management	SDG 6: Clean Water and Sanitation
4	PhD Human Rights	SDG 16: Peace, Justice, and Strong Institutions
5	PhD IPR	SDG 9: Industry, Innovation, and Infrastructure
6	PhD Alternative Dispute Resolution	SDG 16: Peace, Justice, and Strong Institutions
7	PhD Agriculture (Agronomy, Agricultural Extension)	SDG 2: Zero Hunger; SDG 15: Life on Land

8	PhD Applied Economics	SDG 8: Decent Work and Economic Growth
9	PhD Cancer Biology	SDG 3: Good Health and Well-being
10	PhD Civil Engineering	SDG 9: Industry, Innovation, and Infrastructure
11	PhD Disaster Management	SDG 11: Sustainable Cities and Communities
12	PhD Economics	SDG 8: Decent Work and Economic Growth
13	PhD Food Technology	SDG 2: Zero Hunger
14	PhD Legal Sciences	SDG 16: Peace, Justice, and Strong Institutions
15	PhD Pharmaceutical Sciences (Pharmaceutics, Pharmacology)	SDG 3: Good Health and Well-being
16	PhD Psychology	SDG 3: Good Health and Well-being
17	PhD Public Relations	SDG 16: Peace, Justice, and Strong Institutions
18	PhD Yoga	SDG 3: Good Health and Well-being
19	PhD Biotechnology	SDG 9: Industry, Innovation, and Infrastructure
20	PhD Microbiology	SDG 3: Good Health and Well-being
21	M Tech Climate Science and Sustainable Development	SDG 13: Climate Action

22	M Pharmacy	SDG 3: Good Health and Well-being
23	M Tech Civil	SDG 9: Industry, Innovation, and Infrastructure
24	M Tech Energy Technology	SDG 7: Affordable and Clean Energy
25	M Tech Food Technology	SDG 2: Zero Hunger
26	MA/MSc Psychology	SDG 3: Good Health and Well-being
27	MBA Food Technology	SDG 2: Zero Hunger
28	MBA International Relations	SDG 17: Partnerships for the Goals
29	MBA Pharma and Healthcare Management	SDG 3: Good Health and Well-being
30	MSc Agriculture (Agricultural Economics)	SDG 2: Zero Hunger
31	MSc Agriculture (Agricultural Extension Education)	SDG 2: Zero Hunger; SDG 15: Life on Land
32	MSc Environmental Sciences	SDG 13: Climate Action
33	MSc Food Technology Research	SDG 2: Zero Hunger
34	MSc Nutrition and Dietetics	SDG 3: Good Health and Well-being
35	MSc Yoga	SDG 3: Good Health and Well-being
36	M Tech Biotechnology	SDG 9: Industry, Innovation, and Infrastructure
37	MBA Biotechnology	SDG 9: Industry, Innovation, and Infrastructure

38	MSc Biotechnology Research	SDG 9: Industry, Innovation, and Infrastructure
39	MSc Microbiology Research	SDG 3: Good Health and Well-being
40	MBA Digital Marketing	SDG 8: Decent Work and Economic Growth
41	MBA Marketing	SDG 8: Decent Work and Economic Growth
42	B Tech Food Technology Research	SDG 2: Zero Hunger
43	B Tech Renewable Energy & Sustainability	SDG 7: Affordable and Clean Energy
44	BTech Environmental Sustainability	SDG 13: Climate Action
45	BA (Hons) Liberal Arts Economics and Finance	SDG 8: Decent Work and Economic Growth
46	BA (Hons) Liberal Arts Psychology and Counseling	SDG 3: Good Health and Well-being
47	BA/BSc Behavioral & Neuro Psychology	SDG 3: Good Health and Well-being
48	BSc (Hons) Agriculture	SDG 3: Good Health and Well-being
49	BSc (Hons) Food Technology Research	SDG 2: Zero Hunger
50	BSc Nutrition and Dietetics	SDG 2: Zero Hunger
51	BSc/BA Yoga	SDG 3: Good Health and Well-being
52	B Pharmacy	SDG 3: Good Health and Well-being

53	B Tech Civil	SDG 9: Industry, Innovation, and Infrastructure
54	BBA (Rural Management)	SDG 16: Peace, Justice, and Strong Institutions
55	B Tech Biotechnology Research	SDG 9: Industry, Innovation, and Infrastructure
56	BSc (Hons) Biotechnology Research	SDG 9: Industry, Innovation, and Infrastructure
57	BSc (Hons) Industrial Microbiology	SDG 9: Industry, Innovation, and Infrastructure
58	BSc (Hons) Microbiology Research	SDG 9: Industry, Innovation, and Infrastructure

Open Elective Courses Addressing the UN Sustainable Development Goals

Shoolini University integrates the Sustainable Development Goals (SDGs) into undergraduate education through its comprehensive **choice-based credit system**. **Mandatory open electives** provide students with opportunities to select courses related to sustainability and specific SDGs. These courses promote interdisciplinary learning and help students develop knowledge and awareness of sustainability, social responsibility, environmental protection, health, and inclusive development.

Shoolini University's published list of electives addressing SDGs:

Sr. No.	**Course Name**	**Course Code**	**Programme**	**Relevant SDG(s)**
1	Sustainable Leadership for Environmental Happiness	CSU2034	UG	SDG 13 – Climate Action; SDG 17 – Partnerships for the Goals
2	Future Leaders Program: Enhancing Leadership	CSU2026	UG	SDG 4 – Quality Education; SDG 8 –

	through Coaching Skills (ICF)			Decent Work and Economic Growth
3	News Presentation Skills	CSU2017	UG	SDG 4 – Quality Education
4	Introduction to IPR (Intellectual Property Rights)	CSU987	UG	SDG 9 – Industry, Innovation and Infrastructure
5	Home Appliances Technology	CSU2038	UG	SDG 9 – Industry, Innovation and Infrastructure
6	Applications of 3D Modelling	CSU2018	UG	SDG 9 – Industry, Innovation and Infrastructure
7	Future Automobiles	CSU2019	UG	SDG 9 – Industry, Innovation and Infrastructure
8	Sustainable Energy Solutions	CSU2020	UG	SDG 7 – Affordable and Clean Energy
9	Rewiring the Brain	CSU2021	UG	SDG 3 – Good Health and Well-being
10	Life Skills Training	CSU716	UG	SDG 4 – Quality Education
11	Science of Beverages	CSU635	UG	SDG 3 – Good Health and Well-being
12	Food Safety and Hygiene	CSU636	UG	SDG 3 – Good Health and Well-being
13	Music Appreciation	CSU1004	UG	SDG 3 – Good Health and Well-being

14	Diction and Urdu Poetry	CSU2023	UG	SDG 4 – Quality Education
15	Introduction to Physical Education	CSU2024	UG	SDG 3 – Good Health and Well-being
16	Sustainable Tourism in the Himalayas	CSU655	UG	SDG 8 – Decent Work and Economic Growth
17	The Economic Way of Thinking	CSU654	UG	SDG 8 – Decent Work and Economic Growth
18	Developing an Entrepreneurial Mindset	CSU665	UG	SDG 8 – Decent Work and Economic Growth
19	Developing Leadership Competencies	CSU656	UG	SDG 4 – Quality Education
20	Hospitality Fusion: Design, Dollars, & Digital	CSU1825	UG	SDG 8 – Decent Work and Economic Growth
21	Military Communication	CSU2035	UG	SDG 16 – Peace, Justice and Strong Institutions
22	NCC Practical VI (Skillful Level)	CSU2036	UG	SDG 16 – Peace, Justice and Strong Institutions
23	Drug Discovery and Drug Development	CSU849	UG	SDG 3 – Good Health and Well-being
24	Community Health and Medicine	CSU850	UG	SDG 3 – Good Health and Well-being
25	Introduction to Gender Studies	CSU668	UG	SDG 5 – Gender Equality
26	Ecology and Environment History	CSU715	UG	SDG 13 – Climate Action

27	Ek Upanyaas aur Natak ka Adhayan	CSU1561	UG	SDG 4 – Quality Education
28	Kavita, Natak aur Sanchar Kaushal	CSU1562	UG	SDG 4 – Quality Education
29	Introduction to Chinese Culture and Mandarin	CSU2047	UG	SDG 17 – Partnerships for the Goals
30	Advanced Mandarin	CSU2037	UG	SDG 17 – Partnerships for the Goals
31	German Language for Business	CSU2025	UG	SDG 17 – Partnerships for the Goals
32	Right to Information	CSU865	UG	SDG 16 – Peace, Justice and Strong Institutions
33	Human Rights Law	CSU866	UG	SDG 16 – Peace, Justice and Strong Institutions
34	Agristartups	AGRM113	UG	SDG 2 – Zero Hunger
35	Agriwaste Management	AGRM22	UG	SDG 12 – Responsible Consumption and Production
36	Introductory Biotechnology and Microbiology	CSU2027	UG	SDG 3 – Good Health and Well-being
37	Industrial Biotechnology and Microbiology	CSU2028	UG	SDG 9 – Industry, Innovation and Infrastructure
38	Climate Crisis: Issues, Impacts & Adaptations	CSU1429	UG	SDG 13 – Climate Action
39	Biology of Cells	CSU1775	UG	SDG 3 – Good Health and Well-being

40	Cloud Foundations	CSU2031	UG	SDG 9 – Industry, Innovation and Infrastructure
41	Thinking Unboxed: Strategies for Critical Analysis	CSU2029	UG	SDG 4 – Quality Education
42	Science of Happiness	CSU2032	UG	SDG 3 – Good Health and Well-being
43	Ayurveda for Wellness and Happiness	CSU2033	UG	SDG 3 – Good Health and Well-being

2. Research Focus on Sustainable Development

Shoolini University maintains a strong research framework across undergraduate, postgraduate, and doctoral programmes, addressing critical challenges related to sustainable development. The University places particular emphasis on research relevant to the Himalayan Region, encouraging locally relevant and sustainable solutions. Research initiatives are strategically aligned with the SDGs to strengthen the University's contribution to global sustainability priorities.

Supporting Evidence: Shoolini University Research Policy

3. Student Engagement and Leadership Development

During 2025, Shoolini University actively engaged students in a diverse range of **social and community-based initiatives**. These activities provided students with opportunities to develop leadership, social responsibility, teamwork, and community engagement skills, while contributing meaningfully to the well-being and sustainable development of surrounding communities

Supporting Evidence: Social Jagriti Report

Students and volunteers engaged with school children through meaningful outreach activities under the Jagriti Initiative, promoting joyful learning, interaction, and community participation.

<u>Activity 01:</u> Shoolini University's Karate & Martial Arts Training for Local School Kids

Event Frequency: Every Wednesday

Shoolini University organizes weekly karate classes for local school students, facilitated by university students. This initiative aims to promote physical fitness, self-defense skills, and personal development among younger participants while providing valuable teaching experience for university students.

To promote sustainability, the program utilizes eco-friendly practices. Classes are held in university facilities that are maintained with minimal environmental impact. Promotional materials are created using recycled paper, and digital platforms are used for communication to reduce paper waste. Additionally, outdoor training sessions encourage a connection with nature. Through this initiative, Shoolini University fosters a supportive learning environment that empowers school students and enhances community engagement while promoting a sustainable future



Weekly Karate Classes for Manjholi Govt. School Students

<u>Activity 02:</u> Little Smiles, Big Dreams: Celebrating Childhood at Tatool

Date: 14 November, 2025

Venue: Tatool Government School

SDG 4 – Quality Education | SDG 10 – Reduced Inequalities

On **Children's Day**, volunteers organized a meaningful outreach visit to **Tatool Government School** with the objective of celebrating childhood while creating a joyful and engaging learning environment for the students. The visit aimed to spread happiness, encourage confidence, and reinforce the importance of education through interactive and child-friendly activities.

The volunteers spent quality time with the children through **fun games, group activities, storytelling, and interactive sessions**, ensuring active participation from all students. The activities were carefully designed to suit the age group, focusing on learning through play and promoting teamwork, curiosity, and self-expression. The cheerful atmosphere helped children feel comfortable, valued, and motivated.



Storytelling activity focusing on learning

<u>Activity 03:</u> Donate Blood, Save Lives: Blood Donation Camp

Date: 19 November

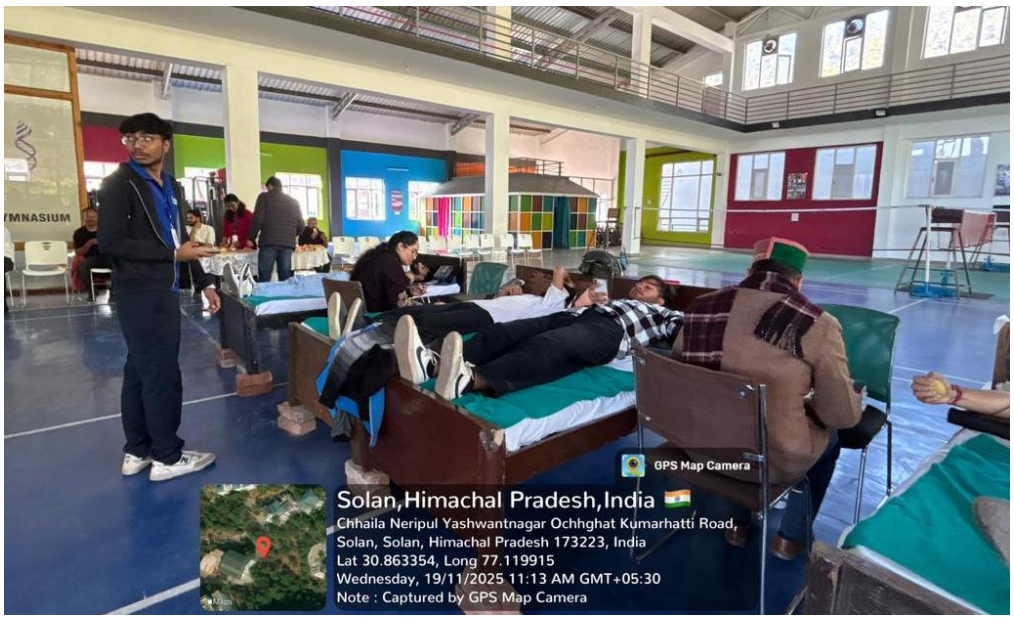
Venue: Shoolini University

In Collaboration with: Indira Gandhi Medical College (IGMC)

Aligned with Sustainable Development Goals (SDGs): SDG 3 – Good Health and Well-Being | SDG 17 – Partnerships for the Goals

Shoolini University organized a **Blood Donation Camp** that witnessed an extraordinary response from the university community, reflecting a strong culture of empathy, service, and social responsibility. The camp was organized **in collaboration with Indira Gandhi Medical College (IGMC), Shimla**, ensuring that all procedures were carried out under the supervision of trained medical professionals. The collaboration ensured a safe, well-coordinated, and efficient donation process, which played a significant role in building trust and encouraging participation, especially among first-time donors.

A total of **135+ donors** stepped forward to donate blood, marking the event as a remarkable success. Many students who had previously engaged with the blood donation awareness stall arrived prepared and motivated, while several walk-in donors joined spontaneously after learning about the initiative on campus. The atmosphere throughout the day was positive, energetic, and purpose-driven, highlighting the university's strong sense of community engagement.



Students engaged with the blood donation awareness

<u>Activity 04:</u> Footprints of Courage: Stride for Life Awareness Walk

SDG 3: Good Health and Well-being & SDG 17: Partnerships for the Goals

Date: 5th February 2025

Location: Mall Road, Solan

In alignment with World Cancer Day, Shoolini University organized a deeply meaningful and socially engaging event titled *Awareness Walk: Stride for Life* on 5th February 2025. Held at the bustling Mall Road in Solan, the event was aimed at spreading awareness about cancer prevention, early detection, and providing emotional support to those affected by the illness. It brought together students, faculty, and members of the community to stand united in the fight against cancer.

The event saw the participation of over 300 volunteers who marched together, carrying placards and chanting slogans to draw public attention. What made the walk especially impactful was the creative expression that accompanied it—participants held **handmade and hand-painted posters and banners**, crafted from recycled paper and materials. These artistic efforts not only amplified the event's visual appeal but also served as a conscious step toward sustainability by avoiding printed flexes and plastic-based decor. This thoughtful integration of eco-friendly practices demonstrated the university's consistent commitment to combining awareness with environmental responsibility.



Awareness Walk in Solan: Stride for Life

Conclusion

Shoolini University demonstrates its commitment to meaningful education by integrating the United Nations Sustainable Development Goals (SDGs) into its academic programmes, open elective courses, research activities, and community engagement initiatives. Through interdisciplinary learning opportunities, sustainability-focused research, and student-led outreach programmes, the University encourages students to develop critical thinking, leadership, social responsibility, and practical problem-solving skills. Initiatives such as Project Pragati, the Jagriti Initiative, blood donation camps, and cancer awareness activities connect academic learning with real-world challenges and community needs. These efforts reflect the University's commitment to promoting inclusive, socially responsible, and sustainability-oriented education while contributing to the achievement of the SDGs.