Shoolini University

SUSTAINABLE DEVELOPMENT GOALS

Education for SDGs

Specific Courses on Sustainability

2025

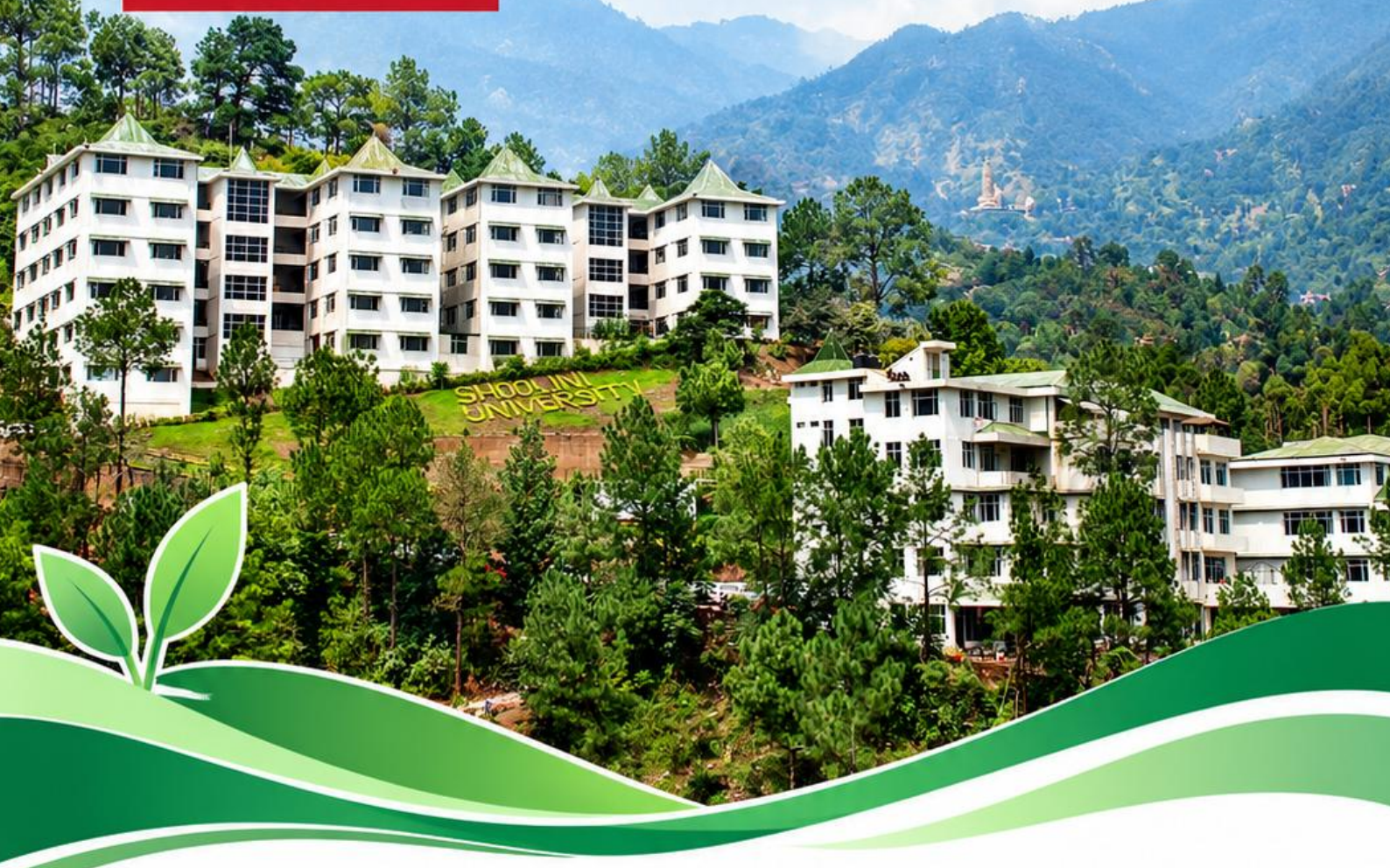
4 QUALITY EDUCATION

Sustainability Curriculum

Skill-based Learning

Interdisciplinary Education

Future-ready Graduates



Shoolini University of Biotechnology and Management Sciences,
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17.4.2 Education for SDGs specific courses on sustainability

Shoolini University offers a diverse range of programs across various disciplines, including Biotechnology, Pharmaceutical Sciences, Energy, Food Technology, Agriculture, Sciences, Engineering, Liberal Arts, Law, Yoga, and Management. These programs are designed to foster sustainability and align with the United Nations' Sustainable Development Goals (SDGs). As a leading institution in India, Shoolini University has implemented a choice-based credit system that provides students with the flexibility to tailor their education. A key feature of this system is the requirement for undergraduate students to choose open electives that address critical SDGs.

These electives cover a broad array of goals such as Decent Work and Economic Growth, Good Health and Wellbeing, Peace, Justice and Strong Institutions, Zero Hunger, Responsible Consumption and Production, Industry, Innovation, and Infrastructure, Climate Action, and Affordable and Clean Energy. With this approach, the university integrates sustainability into its academic structure, preparing students to tackle global challenges.

This table below presents a comprehensive overview of courses designed to align with specific SDGs.

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 through Coaching Skills (ICF)	CSU2026	UG	SDG 4 – Quality Education; SDG 8 – 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

Conclusion

Shoolini University demonstrates its commitment to education for sustainable development by integrating the United Nations Sustainable Development Goals (SDGs) into its doctoral, postgraduate, and undergraduate programmes, as well as its open elective courses. The University's interdisciplinary curriculum addresses critical global challenges, including climate change, clean energy, water conservation, food security, public health, environmental protection, and inclusive economic growth. Beyond classroom learning, research initiatives and student engagement programmes provide practical opportunities to develop leadership, critical thinking, social responsibility, and problem-solving skills. Through community outreach and sustainability-focused educational activities, the University connects academic knowledge with real-world challenges and community needs. These initiatives reinforce Shoolini University's commitment to meaningful, inclusive, and sustainability-oriented education and contribute to advancing the UN Sustainable Development Goals.