Shoolini University

PEOPLE | PLANET | PROGRESS

SUSTAINABILITY REPORT 2025



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

1. Introduction

Sustainability has become an essential consideration for higher education institutions, extending beyond environmental protection to include responsible resource management, social wellbeing, sustainable development, and long-term institutional resilience. Universities have an important role in addressing sustainability challenges through their teaching, research, campus operations, and engagement with local communities and external stakeholders.

Shoolini University of Biotechnology and Management Sciences recognizes the importance of integrating sustainability into institutional practices and academic activities. Through initiatives relating to **water management, renewable energy, waste reduction, biodiversity, sustainability awareness, and community engagement**, the University seeks to promote responsible environmental practices and encourage participation in sustainable development. The Sustainability Report 2025 documents the University's sustainability-related activities and selected performance indicators for the year 2025 (1 January–31 December 2025). The report adopts a structured approach based on four key dimensions: Research, Stewardship, Outreach, and Teaching. This framework supports an integrated assessment of how sustainability is reflected in knowledge generation, campus management, community engagement, and educational activities. The report places particular emphasis on environmental stewardship and the responsible use of natural resources. Water conservation and wastewater management are important areas of assessment, including the monitoring of water sources, wastewater treatment infrastructure, and the reuse of treated water for suitable non-potable applications. Energy management is another key priority, with attention to renewable-energy infrastructure and the need for systematic monitoring of electricity consumption and generation. Waste management initiatives, including waste segregation, responsible disposal, recycling, and the reduction of single-use items, further contribute to the University's environmental objectives.

Beyond campus operations, sustainability is also advanced through research, curriculum-related activities, student participation, awareness programmes, and partnerships. These activities provide opportunities to strengthen sustainability knowledge, encourage responsible behaviour, and connect institutional expertise with wider societal and environmental priorities. The report is aligned with the United Nations Sustainable Development Goals, with particular relevance to SDG 3, SDG 6, SDG 7, SDG 12, SDG 13, and SDG 17. These goals provide a framework for examining the University's contributions to clean water and sanitation, clean energy, responsible consumption, climate action, and collaborative approaches to sustainable development. In addition to presenting reported activities and available performance data, the

report identifies areas where further verification, standardization, and documentation are required. Establishing clear data definitions, maintaining reliable annual records, documenting policy implementation, and measuring outcomes will strengthen the transparency and comparability of future sustainability reporting. Through this report, Shoolini University aims to review its sustainability-related performance during 2025, identify opportunities for improvement, and support evidence-based institutional planning. The findings are intended to contribute to continuous improvement in campus sustainability and to reinforce the role of higher education in advancing the Sustainable Development Goals.

2. Shoolini University Sustainability Governance and Coordination

Shoolini University integrates sustainability into its institutional framework through coordination among specialised centres, quality assurance mechanisms, and administrative functions. This governance approach supports the planning and implementation of sustainability initiatives, the monitoring of environmental performance, and the integration of sustainable practices into academic and operational activities. The framework is guided by the principles of institutional accountability, responsible resource management, continuous improvement, and alignment with the United Nations Sustainable Development Goals (SDGs).

The University's sustainability-related functions are distributed across key institutional units, each contributing to specific aspects of sustainability management and performance monitoring.

Key Institutional Mechanisms

2.1.1 Sustainability Cell — Coordination and Environmental Monitoring

The Sustainability Cell, under the leadership of the Ms. Poonam Nanda, Director - Sustainability, supports the coordination, implementation, and monitoring of sustainability-related initiatives across the campus. The Sustainability Committee provides strategic guidance for policy development and institutional alignment, while the Sustainability Cell facilitates the compilation of environmental performance data, monitoring of relevant indicators, and documentation of institutional activities. Together, these governance mechanisms support the identification of improvement opportunities in water conservation, waste management, resource efficiency, and environmental stewardship, while promoting the integration of sustainability principles into institutional planning and campus operations.

2.1.2 Centre for Energy and Environment Sustainability (CEEST):

Shoolini University's sustainability initiatives are supported by a dedicated team of 14 professionals, including a nine-member team anchored by the Centre for Energy and Environment Sustainability (CEEST) under the supervision of Prof. Shyam Singh Chandel, Director - CEEST. The team contributes to sustainability-related activities across research, academics, and campus infrastructure. CEEST focuses on research, technological innovation, renewable energy, and energy efficiency, supporting the University's sustainability objectives and contributing to SDG 7 (Affordable and Clean Energy) and SDG 13 (Climate Action).

2.1.3 Environment and Sustainability Club:

The Environment and Sustainability Club is **student-led club** at Shoolini University is committed to fostering environmental awareness and promoting sustainable practices for present and future generations. The club focuses on raising awareness of key environmental challenges, including biodiversity conservation, pollution, climate change, and the United Nations Sustainable Development Goals (SDGs). Through educational programmes, awareness campaigns, hands-on environmental projects, and community engagement, it encourages responsible lifestyles and collective action towards a sustainable and resilient future. Guided by its vision of cultivating environmental consciousness for a sustainable world, the club aims to inspire sustainability awareness, promote environmentally responsible practices, encourage innovative research, collaborate with local communities, and empower young people to take leadership roles in sustainability initiatives.

2.1.4 Internal Quality Assurance Cell (IQAC):

The Internal Quality Assurance Cell (IQAC) at Shoolini University supports the integration of sustainability into institutional planning, quality assurance, accreditation, and performance reporting. It facilitates the systematic collection, compilation, and verification of sustainability-related data and supporting evidence across academic and administrative departments. Through institutional assessments, documentation, and periodic reviews, the IQAC helps identify performance gaps, monitor progress against relevant indicators, and promote continuous improvement in sustainability practices. Its coordination also supports the alignment of institutional initiatives with the United Nations Sustainable Development Goals (SDGs) and strengthens the transparency and reliability of sustainability reporting.

2.1.5 Finance and Procurement Committees:

Finance and Procurement Committees at Shoolini University support responsible financial planning, resource allocation, and procurement practices that can contribute to institutional sustainability objectives. Their functions include evaluating procurement requirements, promoting efficient utilisation of institutional resources, and considering environmental and sustainability criteria in purchasing decisions, where applicable. Through responsible procurement, supplier evaluation, and resource-conscious expenditure, these committees can support waste reduction, resource efficiency, and the adoption of environmentally preferable products and services. Their contribution to sustainability governance can be strengthened through documented procurement guidelines, supplier assessment records, and evidence of implementation. Any specific commitments relating to sustainable investment or divestment from fossil fuels should be supported by approved institutional policies and relevant financial records.

2.1.6 Water and Waste Management:

Shoolini University promotes responsible water use and effective waste management through wastewater treatment infrastructure, water conservation measures, and initiatives to reduce plastic waste. The University operates a 400 KLD Sewage Treatment Plant (STP) to support wastewater treatment and the reuse of treated water for suitable non-potable applications. Rainwater harvesting further supports water conservation and sustainable water-resource management. The University also promotes alternatives to single-use plastics through reusable utensils, water stations, and environmentally preferable materials. Any claim of a strict campus-wide ban on single-use plastics should be supported by an approved policy or official institutional directive. These measures contribute to SDG 6 (Clean Water and Sanitation) and SDG 12 (Responsible Consumption and Production).

Through coordination among these institutional units, Shoolini University can strengthen the integration of sustainability into governance, operational management, research, and academic activities. Clear allocation of responsibilities, documented procedures, regular performance reviews, and verified evidence of implementation are essential to ensuring the effectiveness and transparency of this governance framework.

2.2 Policies on Sustainability

Shoolini University of Biotechnology and Management Sciences, Solan, Himachal Pradesh, integrates sustainability into its institutional priorities through policies and initiatives addressing environmental protection, responsible resource management, renewable energy, and sustainable campus operations. These policies provide a framework for promoting environmentally responsible practices, supporting resource efficiency, and aligning institutional activities with the United Nations Sustainable Development Goals (SDGs). The University's sustainability approach encompasses energy management, water conservation, wastewater treatment and reuse, waste reduction, ethical sourcing, and responsible procurement. Relevant policy documents and annual sustainability reporting help document institutional commitments, monitor progress, and identify opportunities for continuous improvement.

Key Sustainability Policies

2.2.1 Sustainable Energy and Environment Policy: This policy framework supports the integration of environmental considerations and energy efficiency into campus operations. The University's reported renewable-energy infrastructure, including its solar photovoltaic installation, contributes to its efforts to promote cleaner energy and reduce dependence on conventional electricity sources.

2.2.2 Ethical Sourcing of Food and Supplies Policy: This policy establishes principles for responsible sourcing of food and other supplies, including supplier accountability, food quality, and compliance with applicable safety and regulatory requirements.

2.2.3 Water Conservation and Reuse Policy: This policy area focuses on the responsible use of water resources, conservation measures, wastewater treatment, and the reuse of treated water for appropriate non-potable applications. It supports the objectives of SDG 6 (Clean Water and Sanitation).

2.2.4 Waste Disposal and Hazardous Materials Policy: This policy framework addresses the segregation, handling, storage, and disposal of waste, including hazardous and biomedical waste, in accordance with applicable requirements. It supports responsible waste management and pollution prevention.

2.2.5 Policy on Minimisation of Plastic and Disposable Items: This policy area promotes the reduction of unnecessary single-use plastics and disposable products through reusable

alternatives, responsible purchasing, and environmentally conscious practices. Its implementation should be supported by approved policy provisions.

2.2.6 Sustainable Investment and Divestment Policy: This policy area concerns the integration of sustainability considerations into investment decisions and financial management. Any specific commitment to divest from fossil-fuel-related investments should be supported by an approved institutional policy and documented evidence of implementation.

Collectively, these policy areas provide a basis for strengthening sustainability governance, promoting responsible institutional practices, and supporting progress towards relevant SDGs. For reporting purposes, each policy should be accompanied by its approved version, effective date, review record, and evidence of implementation, where available.

2.3 Monitoring, Evaluation, and Compliance

Shoolini University's sustainability monitoring framework aims to support the systematic assessment of environmental performance, institutional accountability, and continuous improvement. Sustainability-related data and supporting evidence are compiled to evaluate progress across key operational areas, including energy management, water conservation, waste management, greenhouse gas emissions, and compliance with relevant institutional policies. The Centre of Excellence in Energy Science and Technology (CEEST) and the Sustainability Cell contribute to sustainability-related coordination, data compilation, and performance monitoring.

The University's management systems are supported by internationally recognised ISO certifications issued by Quality Austria Certification GmbH. These include ISO 14001:2015 for **Environmental Management Systems**, ISO 50001:2018 for **Energy Management Systems**, ISO 9001:2015 for **Quality Management Systems**, and ISO 21001:2018 for Educational Organisations Management Systems. The certificates indicate an initial issue date of 24 November 2022 and a stated validity date of 23 November 2028, subject to the certification body's applicable surveillance and validity requirements.

Compliance and verification: Sustainability Council, annual reporting through a Green Campus and SDG Progress Report, or certification under ISO 14001:2015 (Environmental Management Systems) and ISO 50001:2018 (Energy Management Systems) should be included as an established institutional practice only when supported by the relevant meeting

records, published reports, or valid certificates. These documents should specify the reporting period, review frequency, certification scope, and validity, where applicable



qualityaustria
Certification

CERTIFICATE

Quality Austria Certification GmbH awards this **quality**austria certificate to the following organisation:

Shoolini University of Biotechnology and Management Sciences
Kasauli Hills, Solan, H.P, India Pin - 173229

To provide education services for undergraduate, post graduate, doctoral programme in Sciences, Engineering, Pharmacy, Legal Sciences, Biotechnology, Management Sciences, Liberal Arts, Yoga and undergraduate and post graduate programmes in Agriculture

The validity of the **quality**austria certificate will be maintained by annual surveillance audits and one renewal audit after three years.

This **quality**austria certificate confirms the application and further development of an effective

ENVIRONMENTAL MANAGEMENT SYSTEM
complying with the requirements of standard
ISO 14001:2015

Registration No.: U-04711/0
Date of initial issue: 24 November 2022
Valid until: 23 November 2028

Vienna, 20 November 2025

Quality Austria Certification GmbH,
AT-1010 Vienna, Zelinkagasse 10/3

Mag. Christoph Mondl, CEO
Mag. Dr. Werner Paar, CEO
Ing. Christoph Baumgartner, MSc, MBA, Authorised representative, management Customer Service Center

The current validity of the certificate is documented exclusively on the Internet under http://www.qualityaustria.com/en/cert

ISO 14001:2015 Environmental Management Systems certificate



qualityaustria
Certification

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The validity of the **quality**austria certificate will be maintained by annual surveillance audits and one renewal audit after three years.

This **quality**austria certificate confirms the application and further development of an effective

Management system for educational organizations
Requirements with guidance for use
ISO 21001:2018

Registration No.: MSE-00012/0
Date of initial issue: 24 November 2022
Valid until: 23 November 2028

Vienna, 20 November 2025

Quality Austria Certification GmbH,
AT-1010 Vienna, Zelinkagasse 10/3

Mag. Christoph Mondl, CEO
Mag. Dr. Werner Paar, CEO
Ing. Christoph Baumgartner, MSc, MBA, Authorised representative, management Customer Service Center

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ISO 14001:2015 Educational Organisations Management Systems certificate



qualityaustria
Certification

CERTIFICATE

Quality Austria Certification GmbH awards this **quality**austria certificate to the following organisation:

This **quality**austria certificate confirms the application and further development of an effective

Shoolini University of Biotechnology and Management Sciences
Kasauli Hills, Solan, H.P. India Pin - 173229

ENERGY MANAGEMENT SYSTEM
complying with the requirements of standard
ISO 50001:2018

To provide education services for undergraduate, post graduate, doctoral programme in Sciences, Engineering, Pharmacy, Legal Sciences, Biotechnology, Management Sciences, Liberal Arts, Yoga and undergraduate and post graduate programmes in Agriculture

Registration No.: EM-00274/0
Date of initial issue: 24 November 2022
Valid until: 23 November 2028

The validity of the **quality**austria certificate will be maintained by annual surveillance audits and one renewal audit after three years.

Vienna, 20 November 2025

Quality Austria Certification GmbH,
AT-1010 Vienna, Zelinkagasse 10/3

Mag. Christoph Mondl
CEO

Mag. Dr. Werner Paar
CEO

Ing. Christoph Baumgartner, MSc, MBA
Authorised representative,
management Customer Service Center

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ISO 14001:2015 Energy Management Systems certificate

2.4 Stakeholder Engagement

Shoolini University promotes participatory sustainability by engaging students, faculty, staff, and external stakeholders through awareness campaigns, training programmes, and workshops that encourage responsible practices across the institution. Collaborations with government agencies, non-governmental organisations (NGOs), and academic institutions support joint efforts to address sustainability challenges and extend the impact of institutional initiatives. The university aligns its sustainability activities with the relevant United Nations Sustainable Development Goals (SDGs), integrating sustainability into institutional operations, research, teaching, and community engagement. This approach supports the objectives of the UN 2030 Agenda while promoting accountability, inclusivity, and continuous improvement in institutional sustainability performance

3. Sustainability Initiatives and Achievements

Shoolini University continued to strengthen its institutional sustainability agenda through a range of initiatives aligned with the United Nations Sustainable Development Goals (SDGs). These initiatives reflect the University's commitment to environmental stewardship, social

equity, responsible resource management, and inclusive institutional development. By integrating sustainability considerations into campus operations, research activities, teaching and learning, and community outreach, the University seeks to promote environmentally responsible practices and contribute to sustainable development. Engagement with students, faculty, staff, local communities, government agencies, non-governmental organisations, and academic partners further supports awareness, knowledge sharing, and collaborative action on sustainability-related challenges. The University's approach emphasizes the importance of aligning institutional priorities with the UN 2030 Agenda, strengthening stakeholder participation, and encouraging continuous improvement in sustainability performance. The University's sustainability efforts have also received international recognition. In the Times Higher Education (THE) Impact Rankings 2026, Shoolini University secured a position in the global 101–200 band and ranked joint fourth in India overall, demonstrating its continued contribution to the United Nations Sustainable Development Goals (SDGs). The University achieved notable results in several individual SDGs:

- **SDG 3** – Good Health and Well-Being: 101–200 globally band and 4th in India
- **SDG 6** – Clean Water and Sanitation: 47th globally and 5th in India.
- **SDG 7** – Affordable and Clean Energy: 13th globally and 2nd in India.
- **SDG 12** – Responsible Consumption and Production: Ranked in the global 101–200 band.
- **SDG 13** – Climate Action: 62nd globally and 5th in India.
- **SDG 17** – Partnerships for the Goals: Ranked in the global 101–200 band.

These achievements reflect the University's ongoing emphasis on sustainability-related research, environmental stewardship, institutional practices, and partnerships. By integrating sustainability into campus operations and institutional activities, Shoolini University seeks to strengthen its contribution to the SDGs and promote responsible resource management.

SDG 3: Good Health and Well-being

Shoolini University is committed to promoting Good Health and Well-being (SDG 3) by supporting the physical, mental, and emotional health of students, faculty, staff, and the wider community. The University integrates healthcare services, preventive health education, physical activity, mental health support, and community-based awareness initiatives into its institutional activities. These efforts align with the United Nations Sustainable Development Goal 3, which seeks to ensure healthy lives and promote well-being for all at every age. Shoolini University strengthened its health and well-being initiatives through campus medical services, sexual and reproductive health education, mental health awareness programmes, meditation and yoga activities, and access to sports and fitness facilities. The University Health Centre provides medical consultation, first aid, basic diagnostic investigations, hospital referrals, and ambulance support. Its collaboration with Maharishi Markandeshwar Medical College and Hospital further supports access to medical consultation. The University also offers the Sex Education elective (OE010), covering reproductive health, contraception, family planning, HIV/AIDS, sexually transmitted infections, and reproductive rights.

Graduates in Health Professions (2025)

During the Year 2025, Shoolini University continued to strengthen its contribution to the healthcare sector through its academic programmes and the development of skilled healthcare professionals. The University graduated **1,077 students, of whom 387 were graduates in health professions, representing 35.93% of the total graduating cohort**. These graduates came from programs in Pharmacy, Biotechnology, Yoga, Nutrition, Food Technology, Agronomy and Psychology and Counseling. This substantial proportion reflects the University's commitment to preparing qualified professionals equipped to contribute to healthcare services, improve health outcomes, and address emerging healthcare challenges. Through its health-related academic programmes, Shoolini University continues to support the development of human resources for the healthcare sector and contribute to broader health and well-being objectives.

Collaborations to Improve Health Outcomes

Shoolini University has forged multiple local, national, and global partnerships with leading institutions to strengthen health education, research, and community well-being. These collaborations facilitate joint research, student and faculty exchanges, and outreach programs focused on disease prevention, healthcare innovation, and wellness promotion.

Key Health Collaborations Include:

Sr. No.	Institution / organisation	Signing date	MoU term	Age in 2025
1	Dolphin Institute of Biomedical and Natural Sciences	20 Jan 2023	5 Years	2.9 Years
2	Government of Himachal Pradesh (Ayurvedic Bhawan,Shimla)	13 Aug 2021	5 Years	4.4 Years
3	Maharishi Markandeshwar Medical College	24 Nov 2021	Until termination	4.1 Years
4	Tashkent Pharmaceutical Institute, Uzbekistan	08 Nov 2024	5 years	1.1 Years
5	Pharma College, Ethiopia	01 Aug 2021	5 years	4.4 Years
6	YouWeCan	03 Jan 2022	5 Years	4.0 Years
7	ICAR Mushroom Research	27 Apr 2022	10 Years	3.7 Years
8	Royal Holloway University, UK	10 May 2023	5 years	2.7 Years
9	Rekhi Foundation	06 Jan 2024	Until termination	2.0 Years
10	Medswan Foundation	15 Mar 2022	5 Years	3.8 Years
11	Herbalife International India Pvt. Ltd.	07 Dec 2023	5 years	2.0 Years

Dolphin Institute of Biomedical and Natural Sciences: Shoolini University entered into a five-year academic collaboration with the Dolphin Institute of Biomedical and Natural Sciences in January 2023. The partnership aims to promote joint research initiatives, academic exchange programs, and capacity building in the fields of biomedical sciences, biotechnology, and life sciences. The MoU encourages collaborative workshops, faculty and student exchange, and shared use of research infrastructure. This national-level academic partnership strengthens Shoolini's vision to advance interdisciplinary scientific research and contribute to the national innovation ecosystem.



MEMORANDUM OF UNDERSTANDING (MOU)
BETWEEN
SHOOLINI UNIVERSITY
And
DOLPHIN (PG) INSTITUTE OF BIOMEDICAL AND NATURAL SCIENCES

Shoolini University of Biotechnology and Management Sciences Solan (herein referred to as Shoolini University) and Dolphin (PG) Institute of Biomedical and Natural Sciences, Dehradun, Uttarakhand,hereby agree to cooperate and become knowledge partners based on the principle of reciprocity.

This Memorandum of Understanding (MOU) encourages Academic partnership e.g., Faculty and student exchange for research experience, Development and implementation of joint scientific and research projects to government funding agencies, Organization and participation to scientific meetings, symposia and seminars.

The scope of this MOU is expandable: specific issues and terms will be mutually agreed upon on a case-by-case basis. This MOU shall take effect from the date of the latest signature below and will remain in effect for five years hence. This MOU is subject to revision or modification by mutual agreement. It is also understood that either institution may terminate the MOU at any time, although such action will only take place after mutual consultation in order to avoid any possible inconvenience to the parties.

This MOU is non-binding and has no legal monetary implication to either party.

On behalf of the,
Shoolini University, Solan,
Himachal Pradesh, India

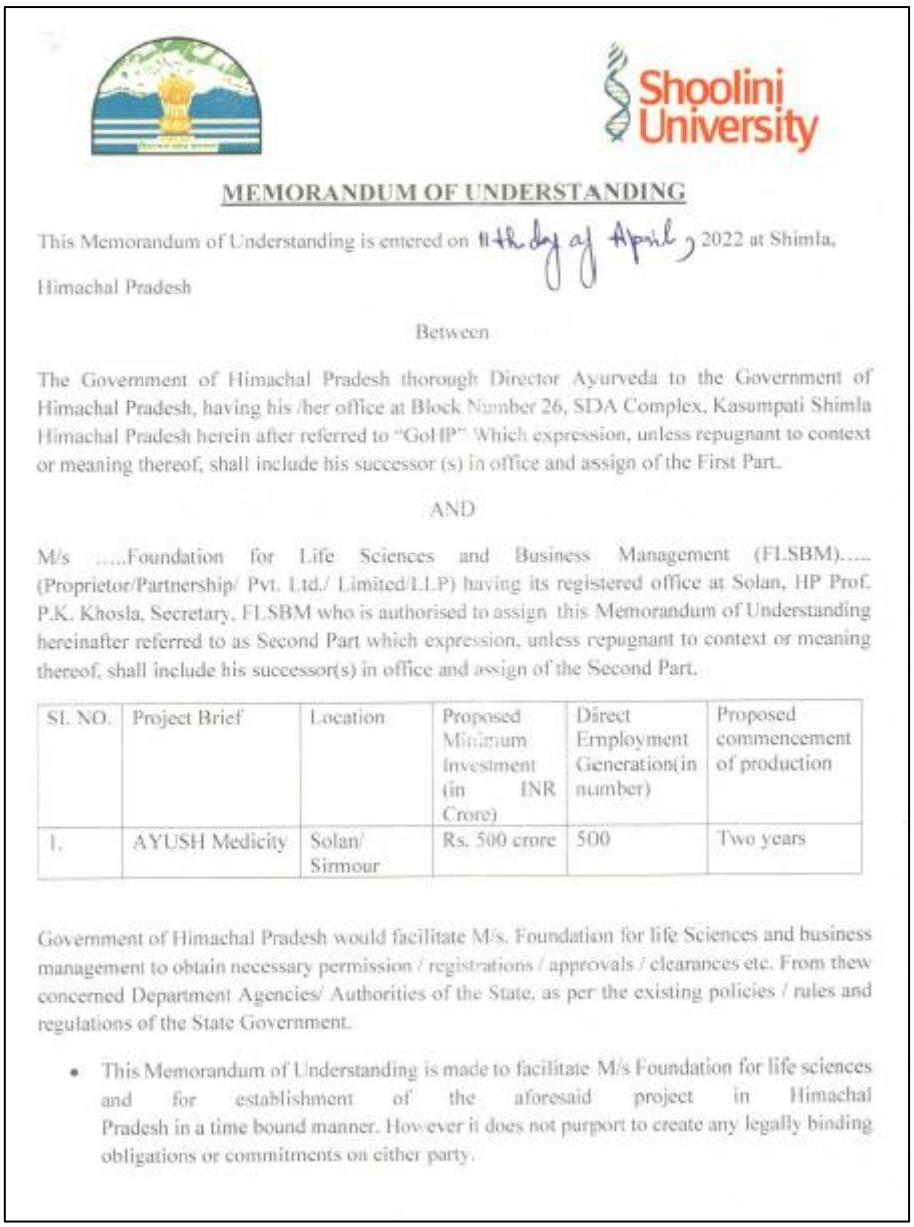
(Prof. PK Khosla)
Chancellor
Date: 20-01-2023

On behalf of the
Dolphin (PG) Institute of Biomedical and Natural Sciences, Dehradun, Uttarakhand
Pin-248001, India

(Dr. Shailja Gupta)
Principal
Date: 20-01-2023

MOU signed between Shoolini University and Dolphin Institute of Biomedical and Natural Sciences

Government of Himachal Pradesh (Ayurvedic Bhawan, Shimla): A five-year MoU was signed between Shoolini University and the Government of Himachal Pradesh (Ayurvedic Bhawan, Shimla) to support joint academic and research programs in the domain of Ayurvedic science and natural product development. The collaboration focuses on enhancing the quality of local healthcare and promoting evidence-based Ayurvedic practices. As a local-level academic partnership, it fosters synergy between modern scientific techniques and traditional medicine, aligning with the state's objective of sustainable healthcare innovation.



MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is entered on 11th day of April, 2022 at Shimla, Himachal Pradesh

Between

The Government of Himachal Pradesh thorough Director Ayurveda to the Government of Himachal Pradesh, having his /her office at Block Number 26, SDA Complex, Kasumpati Shimla Himachal Pradesh herein after referred to "GoHP" Which expression, unless repugnant to context or meaning thereof, shall include his successor (s) in office and assign of the First Part.

AND

M/s .....Foundation for Life Sciences and Business Management (FLSBM)..... (Proprietor/Partnership/ Pvt. Ltd./ Limited/LLP) having its registered office at Solan, HP Prof. P.K. Khosla, Secretary, FLSBM who is authorised to assign this Memorandum of Understanding hereinafter referred to as Second Part which expression, unless repugnant to context or meaning thereof, shall include his successor(s) in office and assign of the Second Part.

Sl. NO.	Project Brief	Location	Proposed Minimum Investment (in INR Crore)	Direct Employment Generation(in number)	Proposed commencement of production
1.	AYUSH Medicity	Solan/ Sirmour	Rs. 500 crore	500	Two years

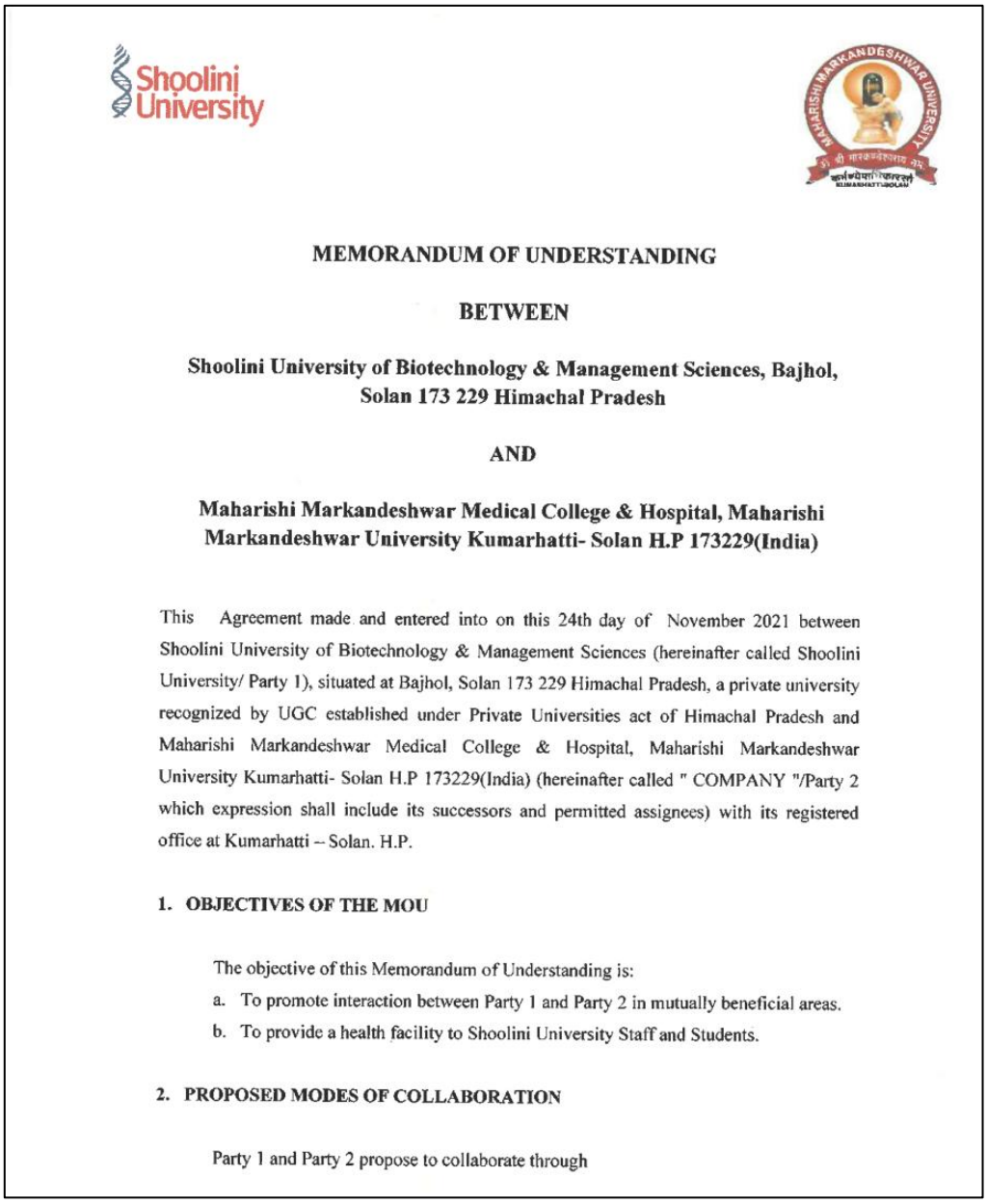
Government of Himachal Pradesh would facilitate M/s. Foundation for life Sciences and business management to obtain necessary permission / registrations / approvals / clearances etc. From thew concerned Department Agencies/ Authorities of the State, as per the existing policies / rules and regulations of the State Government.

- This Memorandum of Understanding is made to facilitate M/s Foundation for life sciences and for establishment of the aforesaid project in Himachal Pradesh in a time bound manner. However it does not purport to create any legally binding obligations or commitments on either party.

MOU signed between Shoolini University and Government of Himachal Pradesh (Ayurvedic Bhawan, Shimla)

Maharishi Markandeshwar University (MMU): The Memorandum of Understanding (MoU) between Shoolini University and Maharishi Markandeshwar University (MMU) represents an important institutional collaboration to advance healthcare, medical research, and community well-being. Through this partnership, both institutions aim to facilitate the exchange of academic expertise, promote collaborative research, and strengthen knowledge-sharing in areas related to medical sciences, public health, and preventive healthcare. Potential areas of cooperation include joint research initiatives, faculty and expert interactions, academic

discussions, workshops, seminars, and the exchange of best practices in healthcare education and service delivery.



MEMORANDUM OF UNDERSTANDING

BETWEEN

Shoolini University of Biotechnology & Management Sciences, Bajhol, Solan 173 229 Himachal Pradesh

AND

Maharishi Markandeshwar Medical College & Hospital, Maharishi Markandeshwar University Kumarhatti- Solan H.P 173229(India)

This Agreement made and entered into on this 24th day of November 2021 between Shoolini University of Biotechnology & Management Sciences (hereinafter called Shoolini University/ Party 1), situated at Bajhol, Solan 173 229 Himachal Pradesh, a private university recognized by UGC established under Private Universities act of Himachal Pradesh and Maharishi Markandeshwar Medical College & Hospital, Maharishi Markandeshwar University Kumarhatti- Solan H.P 173229(India) (hereinafter called " COMPANY "/Party 2 which expression shall include its successors and permitted assignees) with its registered office at Kumarhatti – Solan. H.P.

1. **OBJECTIVES OF THE MOU**

The objective of this Memorandum of Understanding is:

a. To promote interaction between Party 1 and Party 2 in mutually beneficial areas.
b. To provide a health facility to Shoolini University Staff and Students.

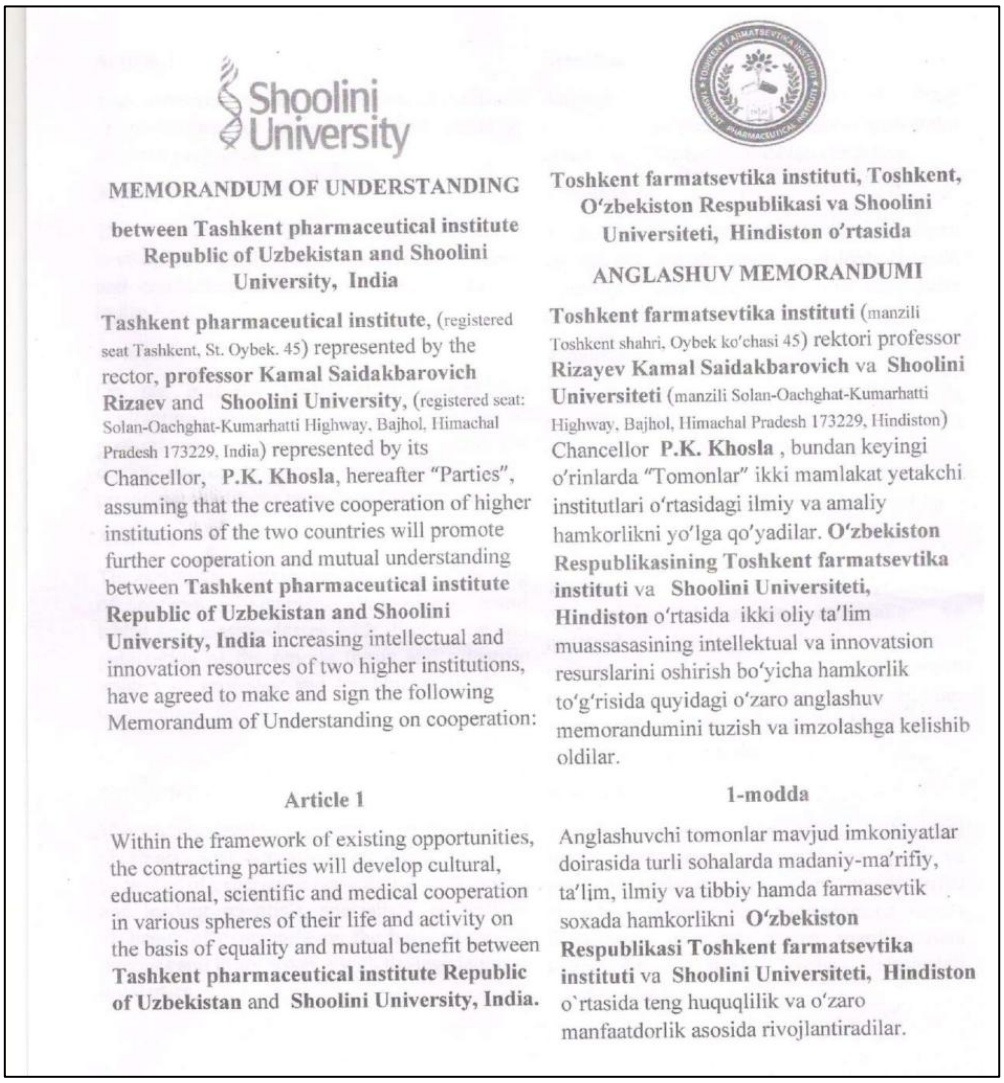
2. **PROPOSED MODES OF COLLABORATION**

Party 1 and Party 2 propose to collaborate through

MOU signed between Shoolini University and Maharishi Markandeshwar University

Tashkent Pharmaceutical Institute (TPI), Uzbekistan: Signing MoU with TPI, Shoolini University marked a significant step towards fostering academic and research collaboration between the two esteemed institutions. This partnership aims to promote student and faculty exchanges, joint research projects, and knowledge sharing in the field of pharmaceutical sciences and related disciplines. By leveraging the strengths of both institutions, the MoU is

expected to enhance educational opportunities, facilitate innovation, and contribute to the advancement of pharmaceutical education and research on an international platform.



Shoolini University

MEMORANDUM OF UNDERSTANDING

between Tashkent pharmaceutical institute Republic of Uzbekistan and Shoolini University, India

Tashkent pharmaceutical institute, (registered seat Tashkent, St. Oybek. 45) represented by the rector, **professor Kamal Saidakbarovich Rizaev** and **Shoolini University,** (registered seat: Solan-Oachghat-Kumarhatti Highway, Bajhol, Himachal Pradesh 173229, India) represented by its Chancellor, **P.K. Khosla**, hereafter "Parties", assuming that the creative cooperation of higher institutions of the two countries will promote further cooperation and mutual understanding between **Tashkent pharmaceutical institute Republic of Uzbekistan and Shoolini University, India** increasing intellectual and innovation resources of two higher institutions, have agreed to make and sign the following Memorandum of Understanding on cooperation:

Article 1

Within the framework of existing opportunities, the contracting parties will develop cultural, educational, scientific and medical cooperation in various spheres of their life and activity on the basis of equality and mutual benefit between **Tashkent pharmaceutical institute Republic of Uzbekistan** and **Shoolini University, India.**

Toshkent farmatsevtika instituti, Toshkent, O'zbekiston Respublikasi va Shoolini Universiteti, Hindiston o'rtasida

ANGLASHUV MEMORANDUMI

Toshkent farmatsevtika instituti (manzili Toshkent shahri, Oybek ko'chasi 45) rektori professor **Rizayev Kamal Saidakbarovich** va **Shoolini Universiteti** (manzili Solan-Oachghat-Kumarhatti Highway, Bajhol, Himachal Pradesh 173229, Hindiston) Chancellor **P.K. Khosla** , bundan keyingi o'rinlarda "Tomonlar" ikki mamlakat yetakchi institutlari o'rtasidagi ilmiy va amaliy hamkorlikni yo'lga qo'yadilar. **O'zbekiston Respublikasining Toshkent farmatsevtika instituti** va **Shoolini Universiteti, Hindiston** o'rtasida ikki oliy ta'lim muassasasining intellektual va innovatsion resurslarini oshirish bo'yicha hamkorlik to'g'risida quyidagi o'zaro anglashuv memorandumini tuzish va imzolashga kelishib oldilar.

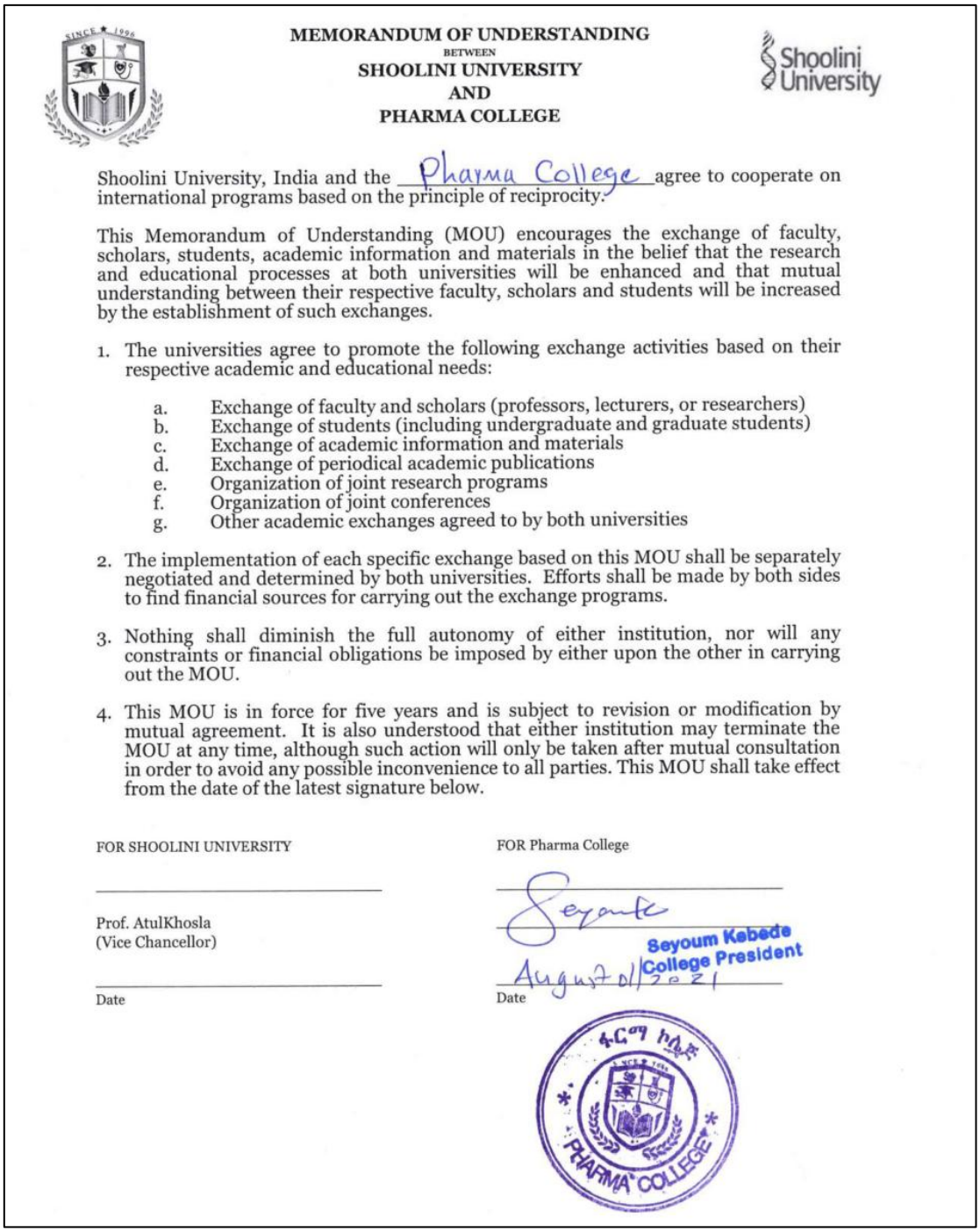
1-modda

Anglashuvchi tomonlar mavjud imkoniyatlar doirasida turli sohalarda madaniy-ma'rifiy, ta'lim, ilmiy va tibbiy hamda farmasevtik soxada hamkorlikni **O'zbekiston Respublikasi Toshkent farmatsevtika instituti** va **Shoolini Universiteti, Hindiston** o`rtasida teng huquqlilik va o'zaro manfaatdorlik asosida rivojlantiradilar.

MOU signed between Shoolini University and Tashkent Pharmaceutical Institute (TPI), Uzbekistan

Pharma College, Ethiopia: Shoolini University has signed an MoU with the esteemed Euthopia College of Pharmacy, marking a significant step toward fostering international collaboration in the field of pharmaceutical education and research. This partnership will promote the exchange of faculty and scholars, support global educational exchanges for students, and facilitate joint research programs. By sharing educational materials and information, both institutions aim to enrich learning experiences and advance their academic capabilities. Additionally, they will jointly organize conferences and collaborative research

initiatives, reinforcing their commitment to international knowledge-sharing and fostering innovations that address global health challenges.



MEMORANDUM OF UNDERSTANDING
BETWEEN
SHOOLINI UNIVERSITY
AND
PHARMA COLLEGE

Shoolini University, India and the Pharma College agree to cooperate on international programs based on the principle of reciprocity.

This Memorandum of Understanding (MOU) encourages the exchange of faculty, scholars, students, academic information and materials in the belief that the research and educational processes at both universities will be enhanced and that mutual understanding between their respective faculty, scholars and students will be increased by the establishment of such exchanges.

1. The universities agree to promote the following exchange activities based on their respective academic and educational needs:
   a. Exchange of faculty and scholars (professors, lecturers, or researchers)
   b. Exchange of students (including undergraduate and graduate students)
   c. Exchange of academic information and materials
   d. Exchange of periodical academic publications
   e. Organization of joint research programs
   f. Organization of joint conferences
   g. Other academic exchanges agreed to by both universities
2. The implementation of each specific exchange based on this MOU shall be separately negotiated and determined by both universities. Efforts shall be made by both sides to find financial sources for carrying out the exchange programs.
3. Nothing shall diminish the full autonomy of either institution, nor will any constraints or financial obligations be imposed by either upon the other in carrying out the MOU.
4. This MOU is in force for five years and is subject to revision or modification by mutual agreement. It is also understood that either institution may terminate the MOU at any time, although such action will only be taken after mutual consultation in order to avoid any possible inconvenience to all parties. This MOU shall take effect from the date of the latest signature below.

FOR SHOOLINI UNIVERSITY

Prof. AtulKhosla
(Vice Chancellor)

Date

FOR Pharma College

Seyoum Kebede
College President

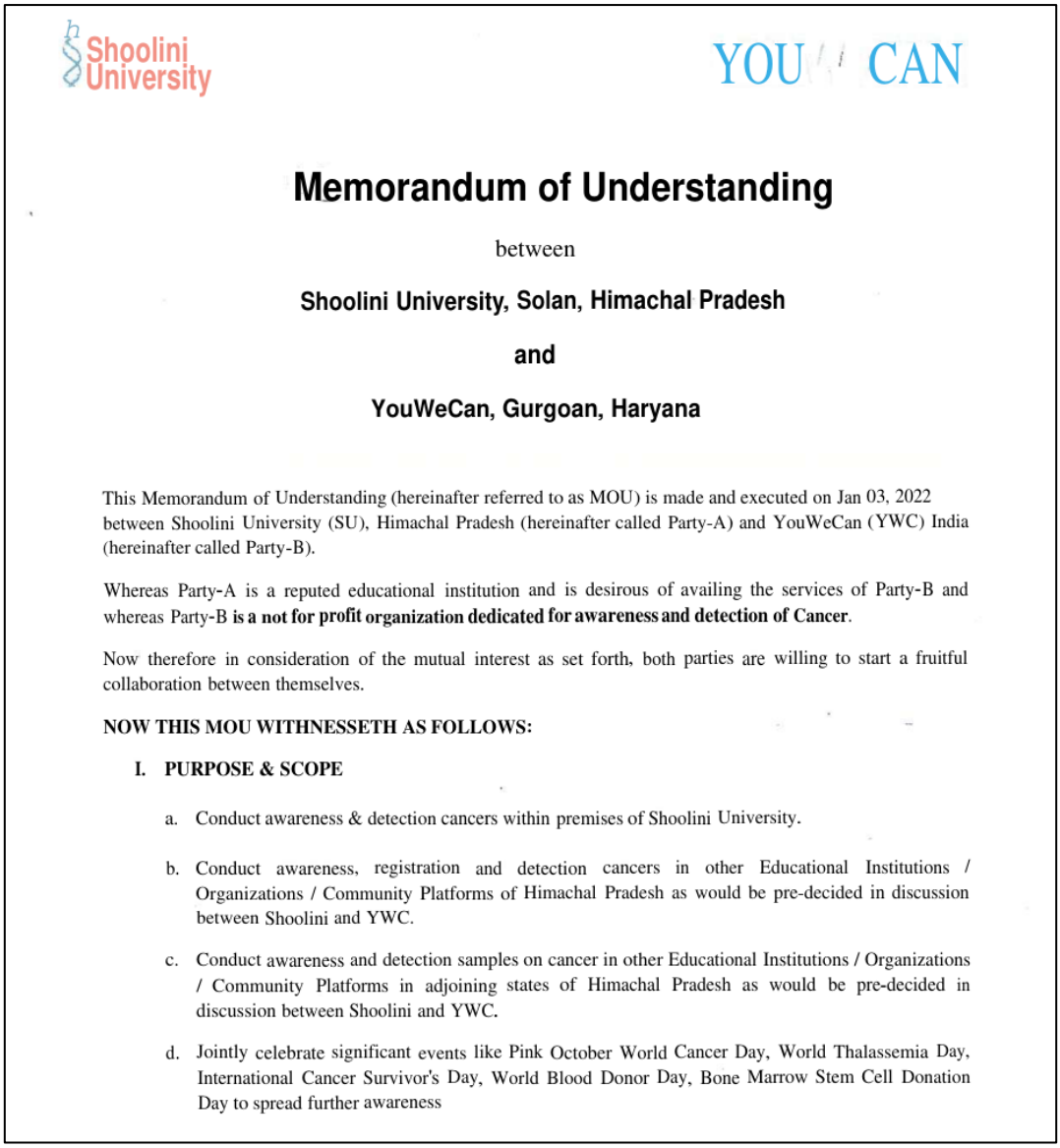
August 01/2021
Date

PHARMA COLLEGE

MOU signed between Shoolini University and Pharma College, Ethiopia

YouWeCan: A five-year industrial MoU was signed with You We Can, an organization founded with a vision to empower youth through education, entrepreneurship, and health initiatives. The partnership focuses on developing joint projects that enhance employability, skill-building, and social impact programs. Through this collaboration, Shoolini University

aims to integrate social entrepreneurship and innovation-driven learning within its academic ecosystem. This national level alliance strengthens the university's commitment to community engagement and holistic student development.



Shoolini University YOU CAN

Memorandum of Understanding

between

Shoolini University, Solan, Himachal Pradesh

and

YouWeCan, Gurgoan, Haryana

This Memorandum of Understanding (hereinafter referred to as MOU) is made and executed on Jan 03, 2022 between Shoolini University (SU), Himachal Pradesh (hereinafter called Party-A) and YouWeCan (YWC) India (hereinafter called Party-B).

Whereas Party-A is a reputed educational institution and is desirous of availing the services of Party-B and whereas Party-B **is a not for profit organization dedicated for awareness and detection of Cancer**.

Now therefore in consideration of the mutual interest as set forth, both parties are willing to start a fruitful collaboration between themselves.

NOW THIS MOU WITHNESSETH AS FOLLOWS:

I. **PURPOSE & SCOPE**

a. Conduct awareness & detection cancers within premises of Shoolini University.

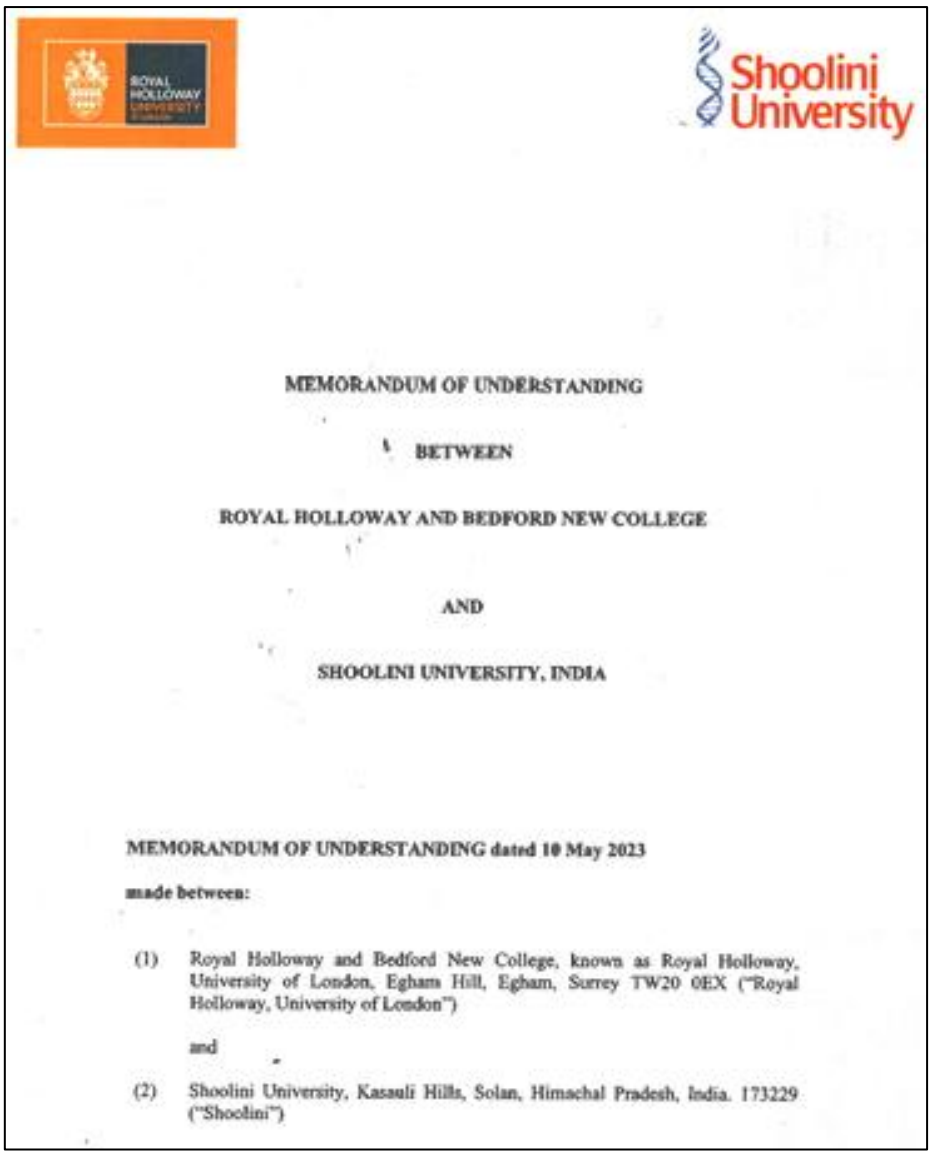
b. Conduct awareness, registration and detection cancers in other Educational Institutions / Organizations / Community Platforms of Himachal Pradesh as would be pre-decided in discussion between Shoolini and YWC.

c. Conduct awareness and detection samples on cancer in other Educational Institutions / Organizations / Community Platforms in adjoining states of Himachal Pradesh as would be pre-decided in discussion between Shoolini and YWC.

d. Jointly celebrate significant events like Pink October World Cancer Day, World Thalassemia Day, International Cancer Survivor's Day, World Blood Donor Day, Bone Marrow Stem Cell Donation Day to spread further awareness

MOU signed between Shoolini University and YouWeCan

Royal Holloway University, UK: A five-year international academic MoU was formalized between Shoolini University and Royal Holloway University, UK, in May 2023. The collaboration includes faculty and student exchange programs, joint research projects, and academic cooperation in diverse disciplines. It aims to enhance global exposure and strengthen Shoolini's international research footprint. This partnership provides a platform for collaborative learning, cross-cultural engagement, and mutual growth in academic excellence.



MEMORANDUM OF UNDERSTANDING

BETWEEN

ROYAL HOLLOWAY AND BEDFORD NEW COLLEGE

AND

SHOOLINI UNIVERSITY, INDIA

MEMORANDUM OF UNDERSTANDING dated 10 May 2023

made between:

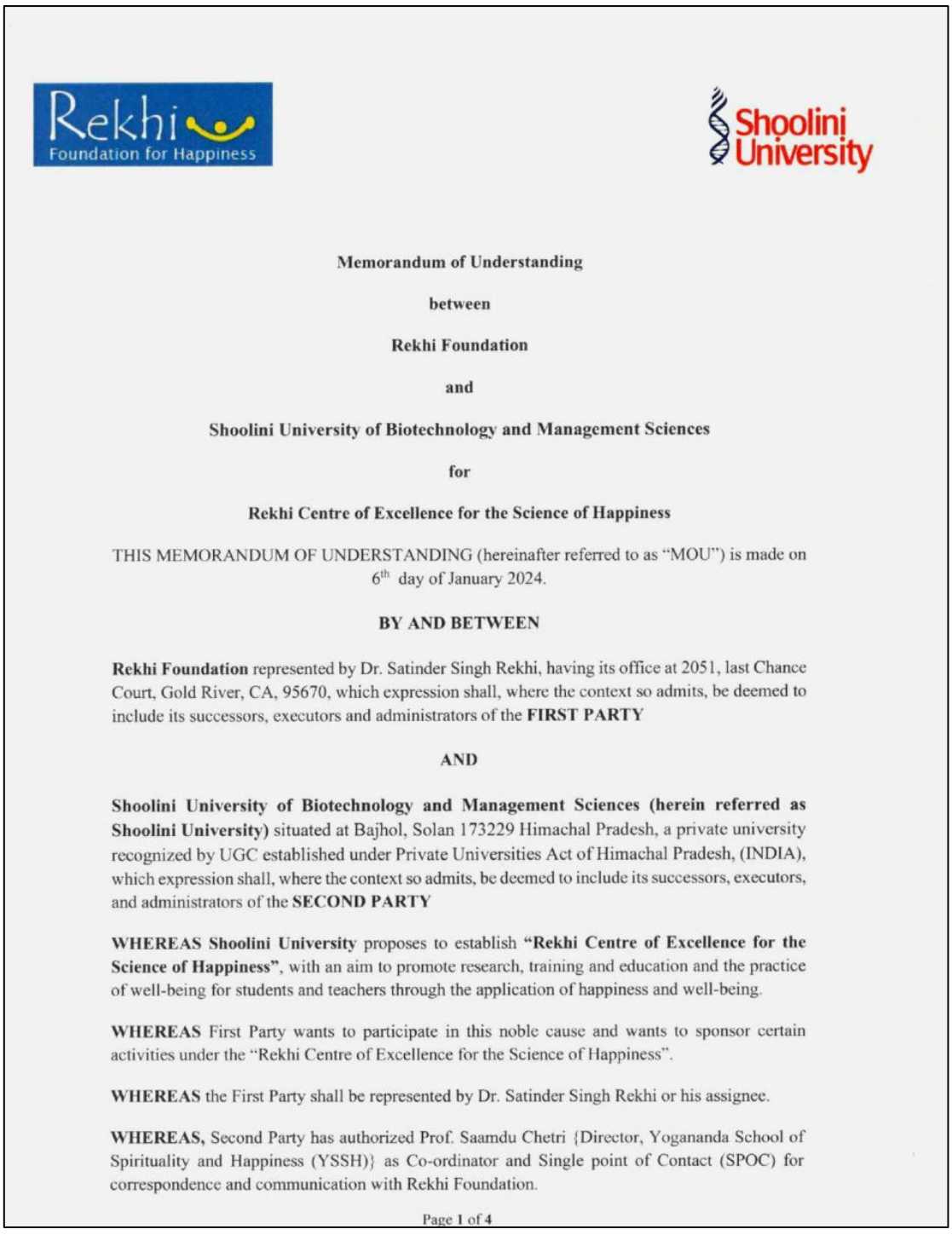
(1) Royal Holloway and Bedford New College, known as Royal Holloway, University of London, Egham Hill, Egham, Surrey TW20 0EX ("Royal Holloway, University of London")

and

(2) Shoolini University, Kasauli Hills, Solan, Himachal Pradesh, India. 173229 ("Shoolini")

MOU signed between Shoolini University and Royal Holloway University, UK

Rekhi Foundation: Shoolini University signed an academic MoU with the Rekhi Foundation on 6 January 2024, with a long-term commitment continuing until termination. The collaboration focuses on integrating human values, ethics, and wellbeing into academic curricula and research programs. It seeks to develop a value-based education framework and organize capacity-building initiatives for students and faculty. As a national-level partnership, this initiative aligns with Shoolini's mission to foster holistic education and emotional intelligence alongside academic excellence.



Memorandum of Understanding

between

Rekhi Foundation

and

Shoolini University of Biotechnology and Management Sciences

for

Rekhi Centre of Excellence for the Science of Happiness

THIS MEMORANDUM OF UNDERSTANDING (hereinafter referred to as "MOU") is made on 6th day of January 2024.

BY AND BETWEEN

Rekhi Foundation represented by Dr. Satinder Singh Rekhi, having its office at 2051, last Chance Court, Gold River, CA, 95670, which expression shall, where the context so admits, be deemed to include its successors, executors and administrators of the **FIRST PARTY**

AND

Shoolini University of Biotechnology and Management Sciences (herein referred as Shoolini University) situated at Bajhol, Solan 173229 Himachal Pradesh, a private university recognized by UGC established under Private Universities Act of Himachal Pradesh, (INDIA), which expression shall, where the context so admits, be deemed to include its successors, executors, and administrators of the **SECOND PARTY**

WHEREAS Shoolini University proposes to establish **"Rekhi Centre of Excellence for the Science of Happiness"**, with an aim to promote research, training and education and the practice of well-being for students and teachers through the application of happiness and well-being.

WHEREAS First Party wants to participate in this noble cause and wants to sponsor certain activities under the "Rekhi Centre of Excellence for the Science of Happiness".

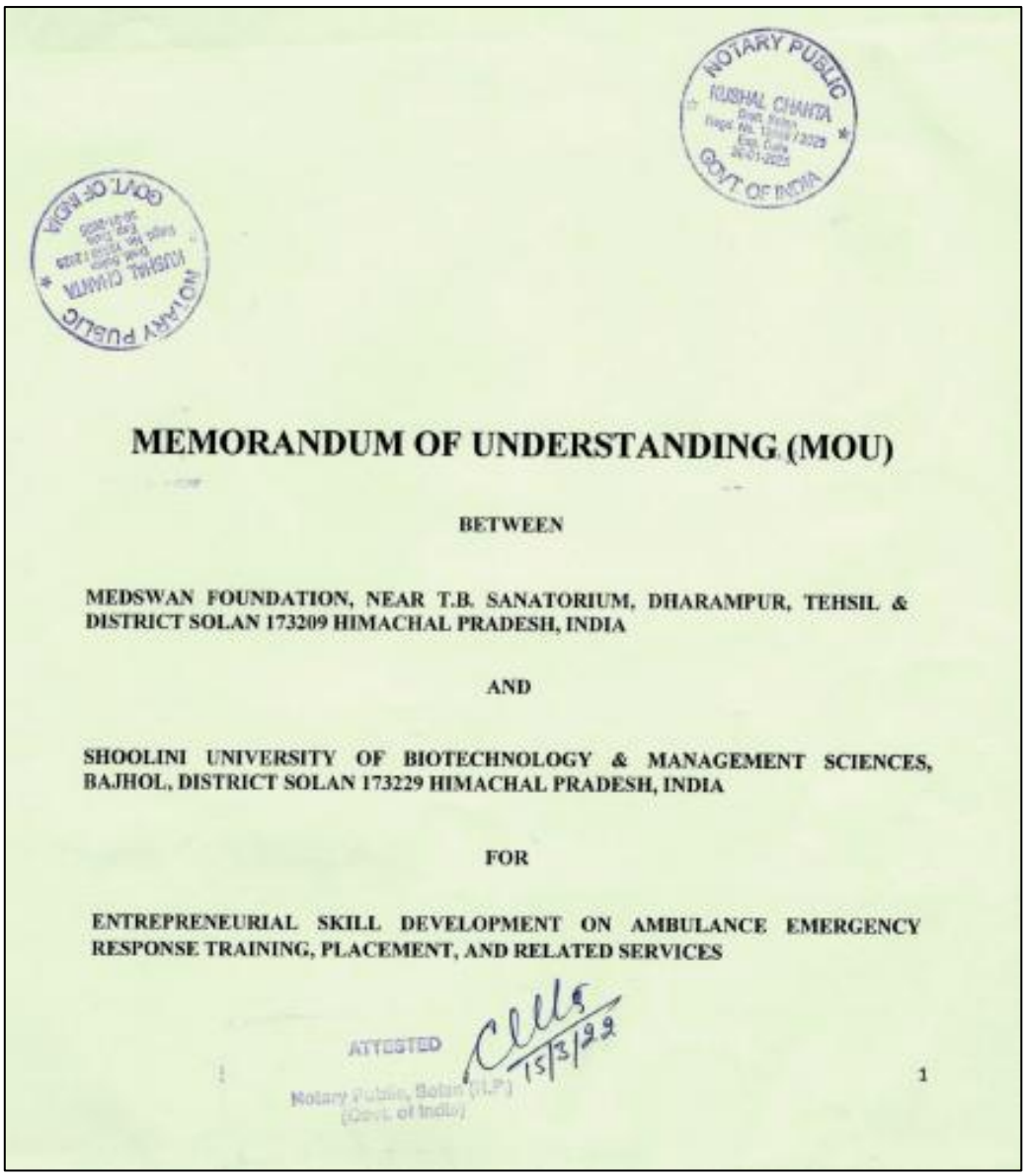
WHEREAS the First Party shall be represented by Dr. Satinder Singh Rekhi or his assignee.

WHEREAS, Second Party has authorized Prof. Saamdu Chetri {Director, Yogananda School of Spirituality and Happiness (YSSH)} as Co-ordinator and Single point of Contact (SPOC) for correspondence and communication with Rekhi Foundation.

Page 1 of 4

MOU signed between Shoolini University and Rekhi Foundation

Medswan Foundation: Promote entrepreneurial skill development, emergency ambulance response training, and placement opportunities. The collaboration aims to enhance Emergency Medical Technicians' (EMTs) knowledge and practical skills in pre-hospital care, patient assessment, and emergency response. It also supports training workshops, expert knowledge-sharing, and career development in emergency ambulance services.



MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN

MEDSWAN FOUNDATION, NEAR T.B. SANATORIUM, DHARAMPUR, TEHSIL & DISTRICT SOLAN 173209 HIMACHAL PRADESH, INDIA

AND

SHOOLINI UNIVERSITY OF BIOTECHNOLOGY & MANAGEMENT SCIENCES, BAJHOL, DISTRICT SOLAN 173229 HIMACHAL PRADESH, INDIA

FOR

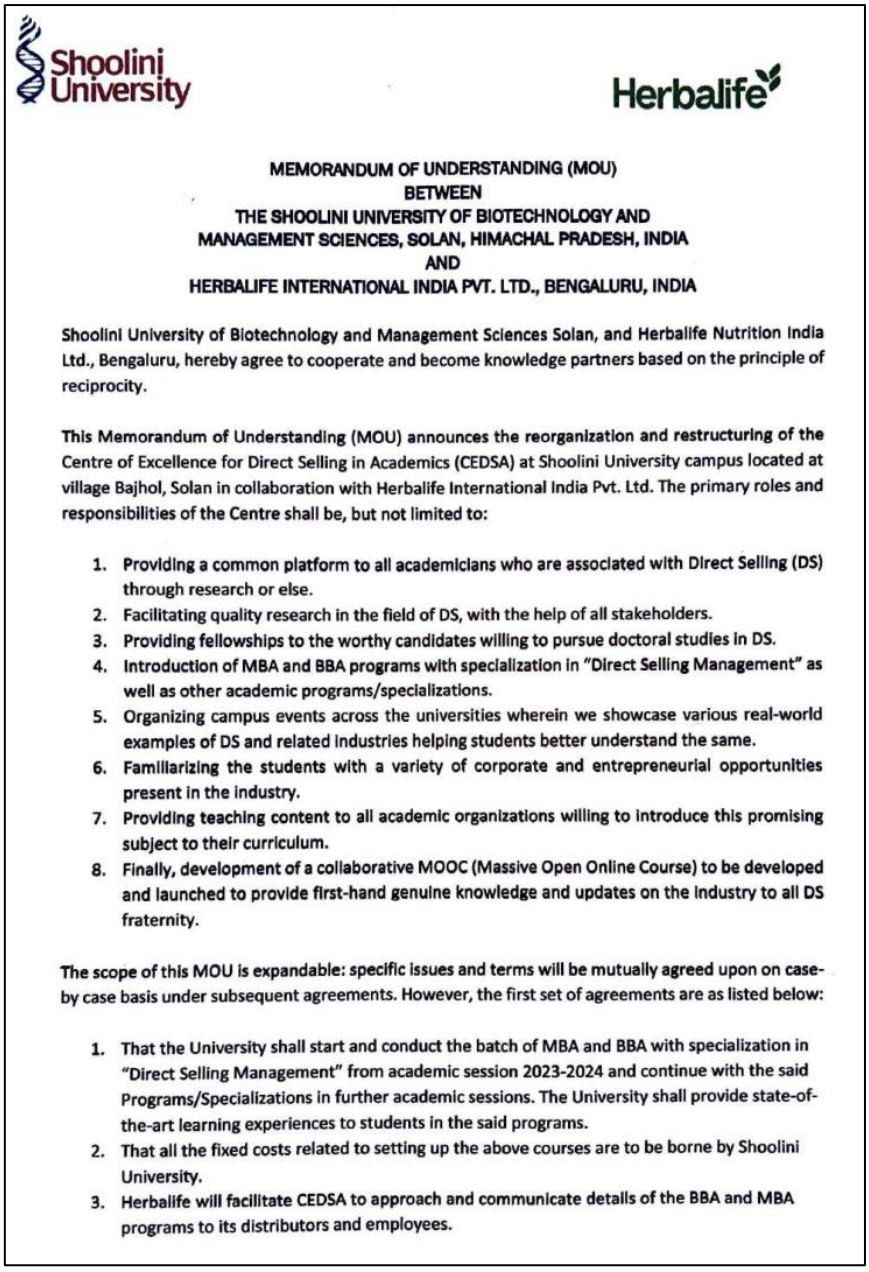
ENTREPRENEURIAL SKILL DEVELOPMENT ON AMBULANCE EMERGENCY RESPONSE TRAINING, PLACEMENT, AND RELATED SERVICES

ATTESTED 15/3/22

1

MOU signed between Shoolini University and Medswan Foundation

Herbalife International India Pvt. Ltd.: The agreement establishes a framework for the Centre of Excellence for Direct Selling in Academics, with programmes in direct-selling management, industry learning and related academic research. Its connection with the health and wellness sector complements the University's wider educational partnerships.



Shoolini University

Herbalife

MEMORANDUM OF UNDERSTANDING (MOU)
BETWEEN
THE SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES, SOLAN, HIMACHAL PRADESH, INDIA
AND
HERBALIFE INTERNATIONAL INDIA PVT. LTD., BENGALURU, INDIA

Shoolini University of Biotechnology and Management Sciences Solan, and Herbalife Nutrition India Ltd., Bengaluru, hereby agree to cooperate and become knowledge partners based on the principle of reciprocity.

This Memorandum of Understanding (MOU) announces the reorganization and restructuring of the Centre of Excellence for Direct Selling in Academics (CEDSA) at Shoolini University campus located at village Bajhol, Solan in collaboration with Herbalife International India Pvt. Ltd. The primary roles and responsibilities of the Centre shall be, but not limited to:

1. Providing a common platform to all academicians who are associated with Direct Selling (DS) through research or else.
2. Facilitating quality research in the field of DS, with the help of all stakeholders.
3. Providing fellowships to the worthy candidates willing to pursue doctoral studies in DS.
4. Introduction of MBA and BBA programs with specialization in "Direct Selling Management" as well as other academic programs/specializations.
5. Organizing campus events across the universities wherein we showcase various real-world examples of DS and related industries helping students better understand the same.
6. Familiarizing the students with a variety of corporate and entrepreneurial opportunities present in the industry.
7. Providing teaching content to all academic organizations willing to introduce this promising subject to their curriculum.
8. Finally, development of a collaborative MOOC (Massive Open Online Course) to be developed and launched to provide first-hand genuine knowledge and updates on the industry to all DS fraternity.

The scope of this MOU is expandable: specific issues and terms will be mutually agreed upon on case-by case basis under subsequent agreements. However, the first set of agreements are as listed below:

1. That the University shall start and conduct the batch of MBA and BBA with specialization in "Direct Selling Management" from academic session 2023-2024 and continue with the said Programs/Specializations in further academic sessions. The University shall provide state-of-the-art learning experiences to students in the said programs.
2. That all the fixed costs related to setting up the above courses are to be borne by Shoolini University.
3. Herbalife will facilitate CEDSA to approach and communicate details of the BBA and MBA programs to its distributors and employees.

MOU signed between Shoolini University and Herbalife International India Pvt. Ltd

Health outreach programmes

Shoolini University delivered health outreach programmes and projects in the local community that combined community outreach, student volunteering, preventive healthcare, awareness-building, inclusive engagement and promotion of active lifestyles. Community-facing programmes in Solan and nearby areas included the Stride for Life cancer-awareness walk, breast-cancer awareness sessions and screening for local women, and student-led outreach to wider student and community audiences. University volunteers also engaged with residents of the Indian Association of Muscular Dystrophy (IAMD), using inclusive recreational and social

activities to support connection, participation and psychosocial well-being. Complementary programmes promoted mental-health awareness, meditation, counselling, sports and physical activity within the University community. Together, these documented activities demonstrate a broad, practical commitment to improving health knowledge, encouraging prevention and early detection, supporting well-being, and extending health-related engagement beyond the campus.

Health outreach awareness initiative taken by Shoolini University;

Programme	Date	Location	Primary group	Documented reach
Stride for Life – Cancer Awareness Walk	5 Feb 2025	Mall Road, Solan	Local public; students and volunteers	300+ volunteers participated
Joy in Every Step – IAMD Visit	6 Feb 2025	IAMD, Solan	People with muscular dystrophy	Participation recorded
Embracing Empathy – IAMD Visit	4 Apr 2025	IAMD, Solan	IAMD residents	Participation recorded
Voices of Togetherness – IAMD Visit	18 Apr 2025	IAMD, Solan	IAMD residents	Participation recorded
Pink October – Breast Cancer Awareness	9 Oct 2025	Kalyan Bhawan, Solan	Local women	150+ women engaged; 2 volunteers
Screen, Support, Survive – Screening Camp	14–15 Oct 2025	Kalyan Bhawan, Solan	Local women	148 women screened; 6 volunteers
Pink October External Awareness Outreach	29 Oct 2025	Nauni and nearby degree college	Students and wider community	1,000+ students engaged; 20 volunteers
World Mental Health Week	10–15 Oct 2025	University campus	Primarily students, faculty and staff	Over 100 at awareness walk; other totals not reported
Shoolini Marathon 2025	20 Sep 2025	Thodo Ground and designated routes	University community	900+ Students and 53 Faculty Members
Meditation, counselling and sports activities	During 2025	University campus	Students and faculty	350+ Students and 62 Faculty members

Pink October Community Awareness Session – Solan

Date: 9th October 2025

Venue: Shoolini University Campus

SDG 3 – Good Health and Well-Being | SDG 5 – Gender Equality

As part of the **Pink October Breast Cancer Awareness Campaign**, Shoolini University organized a **community awareness session for women at Kalyan Bhawan, Solan**, made possible **with the support and encouragement of IAS Ajay**. His initiative and facilitation played a significant role in enabling this outreach program aimed at women's health and preventive care.

The awareness session was led by **Poonam Nanda Ma'am**, who sensitized women about **breast cancer, its common symptoms, risk factors, and the critical importance of early detection**. She emphasized that timely awareness and regular screening can significantly reduce complications and improve survival outcomes. The session focused on breaking myths, reducing fear, and encouraging women to prioritize their health.

During the interaction, women were also **informed about the upcoming breast cancer screening camp**, helping them understand the screening process and reassuring them about safety, accessibility, and confidentiality. Clear communication helped motivate women to actively participate in the screening initiative.

The session fostered an open, supportive, and judgment-free environment, allowing women to share concerns and ask questions related to breast health. Two volunteers from Shoolini University were also present, supporting the session by assisting with coordination, participant engagement, and dissemination of information. Many women expressed appreciation for the initiative, stating that such sessions are essential in promoting awareness at the community level.

This awareness drive, supported by **IAS Ajay** and facilitated by **Nanda Ma'am**, reflected Shoolini University's commitment to **community engagement, women empowerment, and preventive healthcare**, ensuring that the message of **"early detection saves lives"** reached women beyond the campus and into the wider community.

No. of Volunteers: 2

No. of Women Engaged: 150+



Ms. Poonam nanda sensitized women about breast cancer



Pink October Breast Cancer Awareness Session

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 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.

A standout feature of the event was the performance of a powerful **Nukkad Natak (street play)** by university students. Staged right on Mall Road, the play depicted the emotional and medical journey of a cancer patient, shedding light on early detection, treatment options, and the importance of mental and social support. The raw and relatable narrative captured the attention of passersby, who stopped to watch and even engaged with the performers afterward. The street play served as a medium for deep emotional connection, breaking stigmas and encouraging community conversations around cancer.

Organized in collaboration with various student clubs and the NSS unit, the event embraced a unifying theme of solidarity and empathy. Participants wore awareness-themed T-shirts and ribbons to symbolize the shared purpose, while logistical elements were managed in a low-waste, eco-conscious manner. Volunteers also promoted green practices by walking or carpooling to the event.

The entire walk was documented through photographs and video clips, which were later shared across university social media channels, further extending the reach and impact of the message. The overwhelming public response—both in person and online—reflected the success of the campaign in building awareness and fostering community dialogue.

In conclusion, *Stride for Life* was not just an event but a meaningful movement that brought together storytelling, visual art, and environmental mindfulness in the service of cancer awareness. The fusion of creativity, compassion, and sustainability made it a truly holistic initiative that reflected Shoolini University's mission to educate, engage, and empower.



Roadshow in solan mall road



Faculty and participants carry cancer-awareness messages through the public area

Joy in Every Step – Visit to IAMD

SDG 3: Good Health and Well-being & SDG 10: Reduced Inequalities

Date: 6th February 2025

On February 6, 2025, volunteers from Shoolini University visited the Indian Association of Muscular Dystrophy (IAMD) in Solan, spending an uplifting day filled with **dance, music, and heartfelt laughter**. The visit focused on spreading joy through **simple shared moments**, reminding everyone present that happiness often lies in togetherness.

Students organized **interactive group games** and sang along with the residents to classic tunes and popular songs. A spontaneous dance session brought everyone to life, as wheelchairs rolled in rhythm and hands clapped in unison. Laughter echoed as participants played fun activities like charades and musical chairs, creatively adapted to include all.

What made this visit special was the **sense of genuine connection**—there were no barriers, only shared smiles and stories. For many residents, the day broke the routine and offered a chance to be seen, heard, and celebrated.

The initiative reflected Shoolini University's continued efforts to foster **empathy, inclusion, and social engagement** beyond the classroom. It highlighted how student-led outreach can

make a meaningful difference, not just through donations, but by offering **presence and companionship**.



Volunteers dancing with IAMD members



Student volunteers performing a dance for members of the IAMD



Volunteers distributing toys to IAMD children

Pink October External Awareness Outreach – Nauni & Degree College

Date: 29 October, 2025

Venue: Nauni and nearby Degree College

SDG 3 – Good Health and Well-Being | SDG 5 – Gender Equality | SDG 17 – Partnerships for the Goals

As part of the Pink October Breast Cancer Awareness Campaign, Shoolini University organized an external awareness outreach visit to Nauni and a nearby Degree College with the aim of extending the message of breast cancer awareness beyond the university campus and into the wider academic and local community. The outreach focused on sensitizing students about breast cancer, its early warning signs, and the critical importance of early detection. Student volunteers interacted with participants through structured awareness sessions, ensuring that

information was communicated in a simple, clear, and relatable manner. Emphasis was placed on breaking myths, reducing fear associated with the disease, and encouraging proactive health-seeking behavior.

A major highlight of the visit was the nukkad natak (street play) performed by the volunteers. The street play used engaging dialogue, expressive performances, and real-life situations to address social stigma, hesitation, and misinformation surrounding breast cancer. The performance effectively conveyed the message that timely awareness and early diagnosis can significantly improve outcomes and save lives, making the learning experience impactful and memorable. The session also encouraged active participation and dialogue, with students asking questions and engaging in discussions related to breast health and preventive care. Volunteers motivated participants to take the message forward by sharing the information with their families and communities, particularly with women at home. The external outreach at Nauni and the Degree College strengthened the overall impact of Pink October by expanding its reach beyond institutional boundaries. The initiative reflected Shoolini University's commitment to community engagement, student-led social responsibility, and collaborative action in promoting women's health and preventive healthcare awareness.

No. of Volunteers: 20

No. of Students Engaged: 1000+



Nukkad natak performed by the volunteers in Nauni University



Group photographs of Volunteers

Shoolini University organised the Shoolini Marathon 2025

A fitness and health promotion initiative under the theme "**Run for a Fit and Sustainable Green Future.**" The marathon encouraged students to engage in physical activity and adopt healthier lifestyles while promoting environmental responsibility.

Objective: Promote physical fitness, regular exercise, and healthy lifestyles among students.

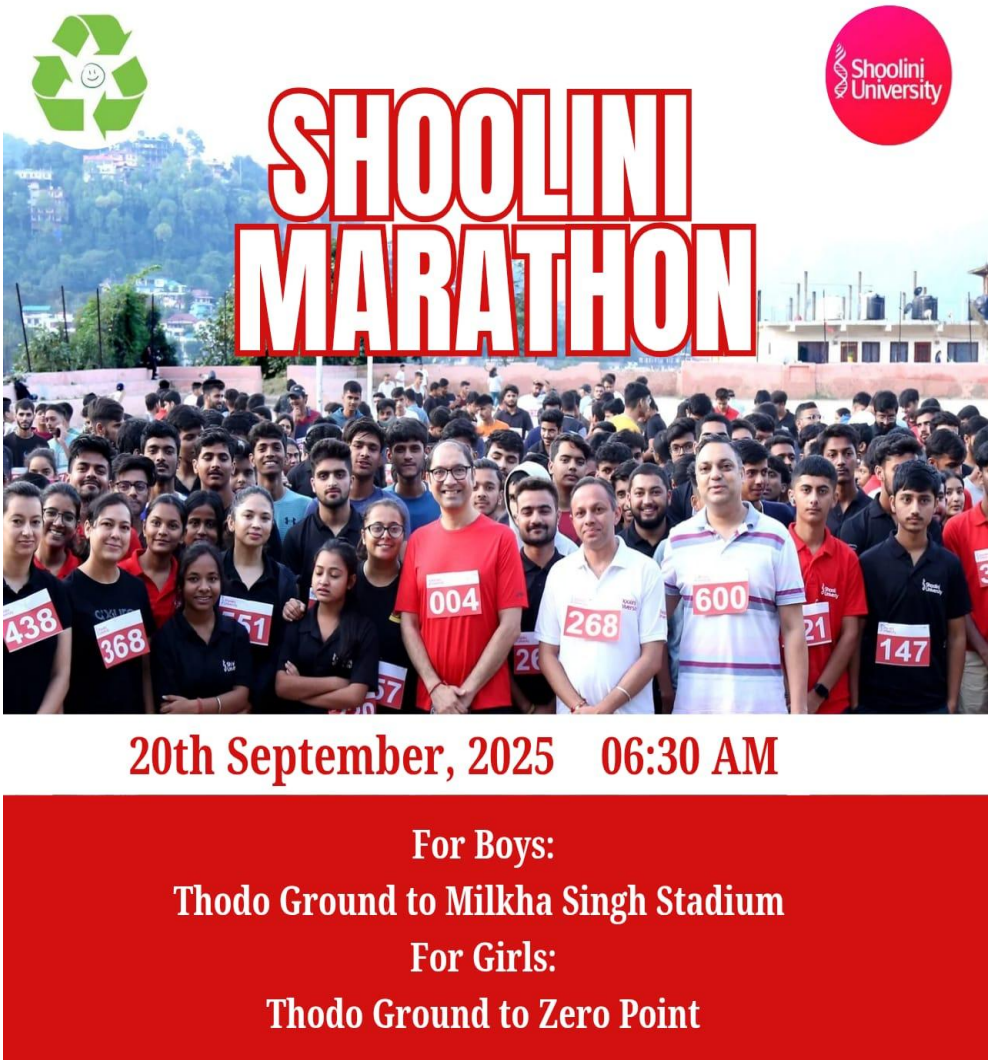
Health Promotion: Participants were encouraged to run for their health, improve physical activity levels, and develop an active lifestyle.

Community Participation: The marathon brought together Shoolinians in a collective fitness activity, fostering participation, motivation, and social engagement.

Men's Route: Thodo Ground → Milkha Singh Stadium

Women's Route: Thodo Ground → Zero Point

The event was positioned not merely as a race but as a celebration of fitness, collective spirit, and responsibility towards a healthier future.



Run for a Fit and Sustainable Green Future

Meditation and Mental Well-being Programmes

Shoolini University, through the Yogananda School of Spirituality and Happiness (YSSH), provides regular meditation opportunities for both students and faculty as part of its efforts to promote mental well-being, stress management, mindfulness, and healthy lifestyles.

Meditation Classes for Students: Regular morning meditation sessions are organized for students from **9:15 AM to 10:00 AM**, on Monday, Wednesday and Friday at C-Block, Room No. 202, Yogananda School of Spirituality & Happiness. The sessions are conducted by Dr. Avichal Verma, Assistant Professor, YSSH, and students are welcome to participate.

Meditation Classes for Faculty: Dedicated meditation sessions are also organized for faculty members every evening from **4:00 PM to 5:00 PM**, providing an opportunity for faculty to practise meditation and support their mental and emotional well-being. The sessions are

conducted by Prof. Saamdu Chetri, Director YSSH, Prof. Nidheesh Yadav, HOD, YSSH, Dr. Anupma Chandel, Assistant Professor, Ms. Rama Mishra, Assistant Professor in Yoga Therapy, Dr. Avichal Verma, Assistant Professor, YSSH.



Faculty members during meditation in sports complex



Students demonstrating a yoga pose



Practical oral hygiene activity

Psychological Counselling and Mental Well-being

Shoolini University provides psychological counselling and mental health support services to promote the emotional, psychological, and overall well-being of students. Counselling services help students address academic stress, personal concerns, emotional challenges, anxiety,

relationship issues, and other psychological needs. These services contribute to creating a supportive campus environment and encourage students to seek timely professional guidance when required.

World Mental Health Week

Organised by: The Psychophoria Club, Centre of Psychology and Behavioral Sciences, Shoolini University

Date: 10th - 15th October 2025

Venue: Pine Court and Ratan Tata Hall

Introduction:

World Mental Health Day, observed annually on October 10, is a global awareness event to promote mental health education and advocacy. Initiated by the World Federation for Mental Health (WFMH), the day aims to reduce the stigma surrounding mental illness and encourage open conversations and support for mental well-being. It serves as a reminder that mental health is a crucial part of overall health, and that accessible, affordable care is essential for everyone. World Mental Health Week 2025 was organized by the Centre for Psychology and Behavioral Sciences in collaboration with the Psychophoria Club from 10th to 15th October 2025, in observance of World Mental Health Day celebrated globally on 10th October.

This year's global theme "**Access to Services: Mental Health in Catastrophes and Emergencies**"; emphasized on importance of making mental health services accessible even in times of crises and emergencies, and our week- long celebration reflects this vision through interactive sessions, creative expressions and awareness activities. The event was designed to be interactive, informative, and reflective, allowing participants to gain knowledge about mental wellness, engage in stress-reduction techniques, and contemplate their own emotional and psychological health. Students, faculty, and staff actively participated, making the initiative both meaningful and impactful.

Day 1: 10th October 2025 - Inauguration Ceremony

The week began with an inspiring and grand Inaugural Ceremony held at Ratan Tata Hall, marking the official commencement of World Mental Health Week 2025.

The hall was beautifully decorated with thematic posters, awareness ribbons, and motivational quotes that reflected the spirit of compassion and resilience. The event opened with the lighting

of the lamp by distinguished guests, including the Hon'ble Chancellor Prof. Prem Kumar Khosla Sir, senior faculty members from the Centre for Psychology and Behavioural Sciences, and student representatives of the Psychophoria Club. The lighting ceremony symbolized hope, positivity, and the collective effort to illuminate conversations around mental health. This was followed by an insightful introduction to the theme, presented by the student coordinators of the Psychophoria Club. They elaborated on the significance of ensuring access to mental health services in times of catastrophe from natural disasters to personal crises - and the role that awareness and community support play in making help accessible to all.

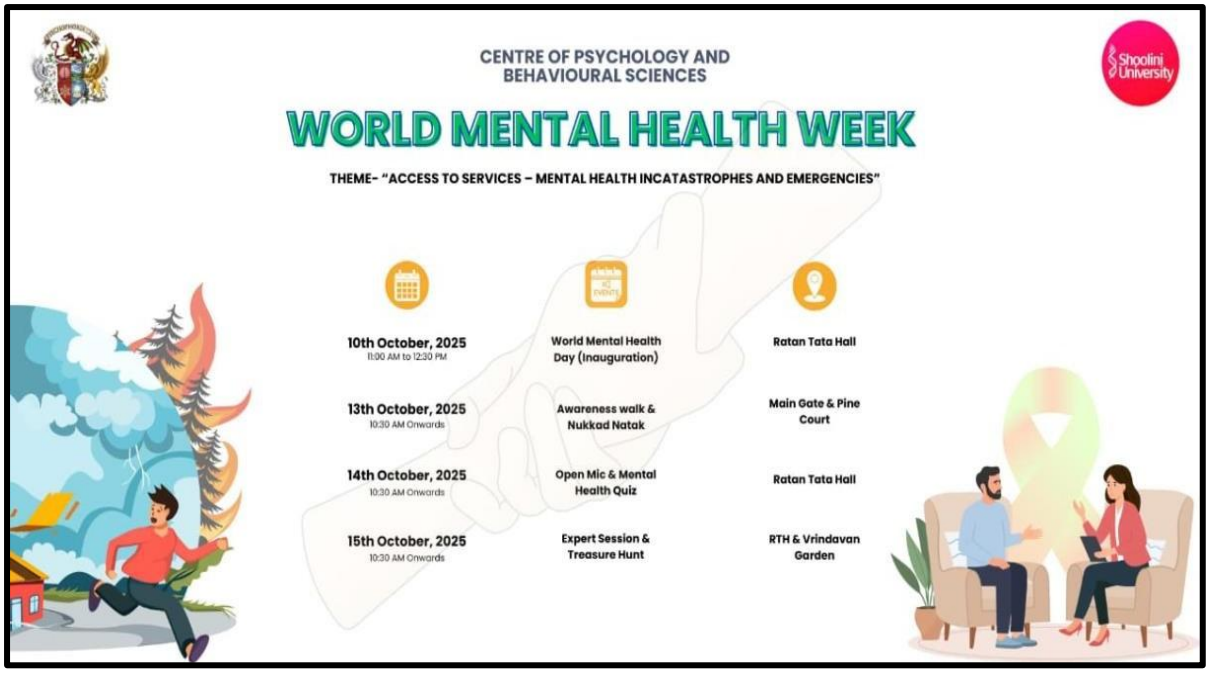


Hon'ble Chancellor Prof. P.K Khosla cutting welcome ribbon

The most awaited moment of the ceremony was the motivational address by Hon'ble Chancellor Prof. Prem Kumar Khosla Sir. In his speech, he spoke passionately about the growing importance of mental health in academic institutions and society. He reminded the audience that mental health is as essential as physical health and encouraged students to seek help whenever needed. His words of wisdom left the audience deeply inspired and set a positive tone for the entire week ahead.

The event concluded with a vote of thanks delivered by the organizing committee, expressing gratitude to all attendees, participants, and the administration for their support. Light refreshments were served after the ceremony, providing a chance for informal interactions and

reflections on the day's message. The inaugural day set a strong foundation for the rest of the week, filling the campus with optimism, understanding, and the shared goal of fostering a mentally healthy environment.



Day 2: 13th October 2025 - Awareness Walk, Nukkad Natak & Wellness Mela

The second day of World Mental Health Week 2025 was packed with impactful and interactive events - the Awareness Walk, Nukkad Natak, and Wellness Mela - all aimed at spreading awareness and encouraging participation.

The morning began with the Awareness Walk at 10:30 A.M., where over 100 students, faculty members, and volunteers gathered at Main Gate. Participants held banners and placards with slogans promoting empathy, understanding, and openness about mental health issues. The atmosphere was charged with enthusiasm and purpose as slogans echoed through the campus pathways. After the walk, the crowd gathered at Pine Court to witness a powerful and emotionally engaging Nukkad Natak (Street Play) presented by the students of the Centre for Psychology and Behavioural Sciences. The play depicted real-life scenarios of individuals struggling with anxiety, trauma, and social stigma during crises such as natural disasters and displacement. It emphasized the importance of community support, understanding, and access to mental health services during emergencies.



Nukkad Natak Performance in pine court

The student's passionate performances and thought-provoking dialogues deeply resonated with the audience, creating a space for reflection and discussion. The Nukkad Natak concluded with an impactful message - "Empathy is the bridge between pain and healing." The energy from the performance seamlessly transitioned into the Wellness Mela 2025 at 12:30 P.M., which was also held at Pine Court. The mela created a vibrant, interactive environment where participants could explore psychological concepts through hands-on experiences.

A wide range of interactive stalls was designed and managed by psychology students, combining education, engagement, and creativity:

- **ADHD Experience Zone:** Offered participants an opportunity to experience the attention and focus challenges faced by individuals with ADHD.
- **Wheel of Emotions:** Encouraged self-reflection by allowing participants to identify and discuss their emotions through a colorful, interactive wheel.

- **OCD Experience Zone:** Simulated repetitive tasks and thought patterns to build understanding of obsessive-compulsive behavior and empathy toward those living with it.
- **Myths and Facts About Psychology:** Helped bust common misconceptions about therapy, psychological disorders, and mental health care.
- **Wall of Thoughts:** A communal board where attendees could share their reflections, feelings, and motivational messages for others.
- **Board Games Simulation:** Fun and interactive games designed to subtly teach coping strategies, teamwork, and problem-solving skills.
- **Business Stalls:** Featured student-led wellness merchandise and creative products.



Poster presentation near library

The Wellness Mela became one of the most engaging highlights of the entire week. Students, faculty, and staff actively participated, interacting with stall coordinators and reflecting on their own emotional health. The vibrant atmosphere - filled with laughter, curiosity, and dialogue - made learning about mental health both enjoyable and meaningful. As the day concluded, the sense of community and openness on campus was stronger than ever. Participants expressed how the activities helped them better understand mental health challenges and encouraged them to approach others with empathy and compassion.

Day 3: 14th October 2025 - Wellness Mela, Mental Health Quiz & Open Mic

The third day focused on interactive engagement, intellectual challenge, and emotional expression.

The morning began with the Wellness Mela 2025 at 10:30 AM, giving participants another opportunity to explore the interactive stalls, including ADHD Experience Zone, Wheel of Emotions, OCD Experience Zone, Dumb Charades of Emotions, Hope and Kindness Jar, Anonymous Q & A Box, Wall of Thoughts, and Board Games Simulation. The engaging activities allowed students to reflect on emotional well-being, practice empathy, and experience hands-on mental health concepts.





Faculty and international guest during a community well-being engagement programme

A special highlight of the day was the visit of international guests, who were present at Shoolini University for an institutional collaboration. They visited the stalls, interacted with students, and appreciated the creativity, innovation, and conceptual understanding reflected in each display. Their encouraging feedback and genuine curiosity about student-led initiatives added a sense of pride and global connection to the event. In the afternoon, at 3:00 PM, the Mental Health Quiz was organized at Ratan Tata Hall. The quiz challenged participants' knowledge on psychology, coping strategies, and mental health awareness. It was both competitive and educational, encouraging critical thinking, and application of psychological concepts. Later, the Open Mic Session transformed the hall into a safe and expressive space. Students shared poems, stories, and songs that explored themes of self-love, healing, and resilience. The heartfelt performances fostered connection, empathy, and emotional awareness among peers, rounding off the day with inspiration.

Day 4: 15th October 2025 - Expert Talk, Prize Distribution & Treasure Hunt

The final day of World Mental Health Week 2025 marked a vibrant and inspiring conclusion to the week's celebrations - a day that combined learning, creativity, and community spirit, leaving participants with lasting inspiration and joy.



Dr. Punnet Verma shed light on the psychological care

The day commenced with an insightful expert session by Dr. Puneet Verma, Psychiatrist and Medical Director at Dr. Puneet Verma Hospital. His engaging talk on the global theme: “Mental Health in Catastrophes and Emergencies” shed light on the importance of psychological care and emotional resilience during crises. He shared practical strategies for coping with trauma, managing stress, and offering community-based mental health support. The interactive session sparked thoughtful discussions among students and faculty, encouraging everyone to approach mental health from a compassionate, informed perspective. Following the expert talk, Ratan Tata Hall came alive with a series of dance and singing performances by students, symbolizing the vibrancy and emotional expression that underpin mental well-being. The performances brought smiles, applause, and a sense of unity, emphasizing that creative expression is a powerful form of healing.

The event proceeded with the Prize Distribution Ceremony, recognizing the dedication and creativity of participants during the Suicide Prevention Day which had been organized earlier. The competition had aimed to spread awareness on suicide prevention through artistic expression, and the winners were commended for their powerful messages and thoughtful designs.

As the academic segment concluded, the focus shifted to a more interactive and adventurous finale - the much-awaited Treasure Hunt, themed “Mind Maze: The Mental Health Treasure Hunt.” The event began at Pine Court at 2:30 PM, where teams gathered with excitement and anticipation. Designed around psychological concepts and clues, the hunt tested participants’ teamwork, problem-solving, and observation skills while promoting fun learning and stress-free engagement.

Day 4 perfectly captured the essence of World Mental Health Week 2025 - uniting knowledge, creativity, and compassion to build a culture of mental wellness and understanding at Shoolini University.



Prize Distribution for dedication and creativity of participants during the Suicide Prevention Day

Health Infrastructure and Facilities

The University has developed a robust on-campus healthcare system to provide immediate and preventive care:

- A fully functional Health Centre staffed with qualified medical professionals offering
- 24×7 services.
- Ambulance and emergency care facilities to handle medical situations efficiently.
- Periodic health check-up camps in partnership with local hospitals and government
- agencies.
- Access to telemedicine consultations and tie-ups with specialized healthcare
- institutions.
- Clean drinking water systems, sanitation infrastructure, and hygiene monitoring in hostels and academic blocks.



Health Center inside the campus

SDG 6: Clean Water and Sanitation

Shoolini University recognises the importance of sustainable water management, access to safe water, and effective sanitation in achieving United Nations Sustainable Development Goal 6 (SDG 6): Clean Water and Sanitation. The University's approach focuses on responsible water consumption, efficient resource utilisation, wastewater treatment and reuse, water conservation, and the development of sustainable campus infrastructure. Through the monitoring of water consumption, management of multiple water sources, and operation of wastewater treatment facilities, the University seeks to reduce freshwater demand and promote the responsible use of available water resources. Rainwater harvesting, groundwater recharge measures, and the reuse of treated wastewater for suitable non-potable applications further support campus-level water conservation. Shoolini University's SDG 6 initiatives address the broader objective of improving water-use efficiency, reducing water wastage, supporting sustainable sanitation, and strengthening the management of water-related infrastructure. The University also emphasises the importance of monitoring water quality, maintaining sanitation facilities, and encouraging water-conscious behaviour among students, faculty, staff, and other campus stakeholders. These efforts are relevant to the SDG 6 targets concerning safe drinking water, sanitation and hygiene, water-use efficiency, integrated water resource management, and the protection of water-related ecosystems. Institutional records, consumption data, treatment-capacity details, and supporting evidence provide a basis for assessing progress and identifying areas for improvement.

The University's contribution to SDG 6 is assessed across the relevant indicators covering water consumption and monitoring, access to safe drinking water, sanitation facilities, wastewater treatment and reuse, water conservation, and sustainable water management practices. By strengthening infrastructure, improving data collection, and documenting implementation outcomes, Shoolini University aims to enhance water security, minimise environmental impacts, and promote a more sustainable and water-conscious campus. These initiatives contribute to the broader objectives of the UN 2030 Agenda while supporting the continuous improvement of institutional environmental performance.

Water Management and Conservation Systems

Shoolini University of Biotechnology and Management Sciences, Solan, Himachal Pradesh, implements water management and conservation measures to promote the efficient use of water resources and support sustainable campus operations in alignment with SDG 6: Clean Water

and Sanitation. The University obtains water from multiple sources, including borewells, municipal supply through the Irrigation and Public Health (IPH) Department, and natural sources such as springs. Water consumption is monitored to support resource planning and identify opportunities for improving water-use efficiency. The University operates wastewater treatment infrastructure, including a 400 KLD Sewage Treatment Plant (STP) to facilitate wastewater treatment and appropriate reuse. Treated wastewater is used for non-potable applications, including landscaping, irrigation, cleaning, and other suitable purposes, helping reduce dependence on freshwater resources. Water conservation measures also include rainwater harvesting, groundwater recharge initiatives, and water-efficient infrastructure such as low-flow taps and dual-flush toilets. These measures are intended to minimise water wastage, improve resource efficiency, and encourage responsible water-use practices among students, faculty, staff, and other campus stakeholders. Through continued monitoring, infrastructure improvement, and evidence-based management, the University seeks to strengthen water conservation and contribute to the sustainable management of water resources.

Water consumption tracking

Shoolini University tracking the volume of water used across the university campus. During the year 2025 (Jan–Dec), the University maintained monthly source-wise records of water received from IPH /main supply, borewells (aquifers), natural sources, and supplying natural spring water.

The University recorded **104,685,440 litres (104,685.44 m^3)** of total water received during the year 2025. The recorded sources comprised;

- 54,027,500 litres from IPH/main supply.
- 37,149,640 litres from borewells/aquifers.
- 13,508,300 litres from natural sources.

The average daily water consumption is **285,770.27 litres/day**, which corresponds to **46.57 litres per person per day** based on a campus population of 6,137 FTE.

This per-capita consumption is considerably lower than the National Building Code (NBC) of India standard of 135 litres/person/day, demonstrating the university's efficiency in managing water resources. The significant reduction in water use reflects the university's efficient water management practices and its conscious efforts towards resource conservation.

Recycling and Conservation Practices

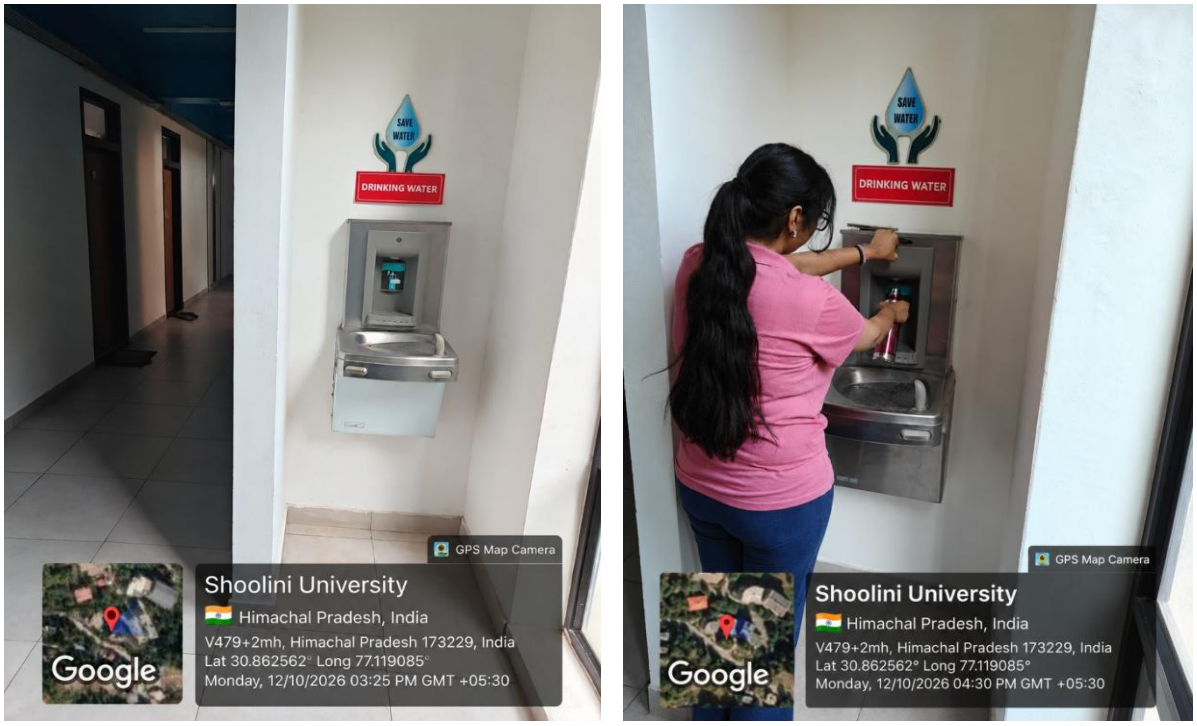
During 2025, the University recorded 75,881,195 litres (75,881.20 m^3) of recycled water, equivalent to approximately 72.75% of total recorded water consumption through the Sewage Treatment Plant (STP) and reused for non-potable applications such as horticulture, flushing, and campus landscaping. Additionally, the university has adopted drip irrigation systems, which minimize water losses and ensure targeted delivery of water to plants.

Free drinking water provided

Shoolini University **provides free and safe drinking water to students, faculty, staff and visitors** across its campus. Drinking-water facilities, including water fountains, are available in academic buildings, faculty areas, and student residential facilities to provide convenient access to free drinking water **(table).** All drinking-water facilities are connected to advanced 3M water filtration units, which help improve water clarity, taste and odour while supporting the provision of filtered drinking water across the campus. Regular maintenance and timely replacement of filters help maintain the functionality and reliability of these facilities.

Table: Distribution of Free Drinking-Water Facilities Across Campus

Free Drinking Water Access Locations	**Counts**
Academic Blocks	76
Faculty Residentials Buildings	11
Students Residentials Building (Hostels)	42
Other Locations (Basketball Court, Volleyball Court and other outdoor area)	8
Total	**137**



Free Drinking Water fountain at common area of Shoolini residences

University **installed 22 advanced 3M water filtration units** and replaced old, damaged and non-functional filters as part of the upgradation and maintenance of its drinking-water infrastructure. These measures brought the total number of **advanced 3M water filtration units to 137**. The facilities demonstrate the University's commitment to health, hygiene, student welfare and sustainable campus management.

Key Features of the Advanced 3M Water Filtration Units: The advanced 3M water filtration units provide efficient, electricity-free and low-maintenance filtration, helping improve the clarity, taste, odour and hygienic quality of drinking water. Regular maintenance and timely replacement of filters support reliable access to clean drinking water across the University campus.

Moreover, to maintain microbiological safety, water is also disinfected through chlorination using dosing pumps, ensuring that harmful pathogens are eliminated before consumption. This dual approach of filtration and chlorination guarantees a continuous supply of safe drinking water to the campus community.

Water-conscious building standards

Shoolini University applies water-conscious building standards to design and construction new and existing infrastructure to minimise water consumption and reduce water wastage. These standards incorporate water-efficient fixtures, rainwater harvesting and storage, permeable surfaces for groundwater recharge, efficient rainwater drainage, dual-flush or low-flow toilets, low flow taps and systems for the reuse of harvested rainwater for irrigation, flushing and other non-potable applications. Building projects incorporate these water-management provisions as part of sustainable campus development.

Table 1: Initiatives Taken for Water-Efficient Building Standards to Minimise Water Use

S. No.	Initiative	Implementation Area	Water-Saving Contribution
1	Sensor-Based Taps	Installation of automatic sensor-operated taps in campus washrooms	Reduces water wastage by automatically stopping water flow when not required
2	Dual-Flush Toilets	Installation of dual-flush systems in campus washrooms.	Reduces water consumption during toilet flushing.
3	Low-Flow Taps	Use of water-efficient taps in washrooms and handwashing areas.	Minimises unnecessary water flow and wastage.
4	Rainwater Harvesting	Rainwater harvesting systems to collect and manage rainwater on campus.	Supports water conservation and reduces dependence on external water sources.
5	Groundwater Recharge and Surface Runoff Management	Implementation of groundwater recharge measures and permeable surfaces across suitable campus areas.	Supports groundwater replenishment, reduces surface runoff, and promotes sustainable water conservation.
6	Water-Efficient Landscaping	Water-conscious landscaping and irrigation practices in campus green spaces.	Reduces water requirements for maintaining gardens and plants.
7	Wastewater treatment and reuse	Treatment of campus wastewater through the sewage treatment plant	Enables treated wastewater reuse for suitable non-potable purposes and reduces freshwater demand

Evidence:

Water-Efficient Building Standards to Minimise Water Use:

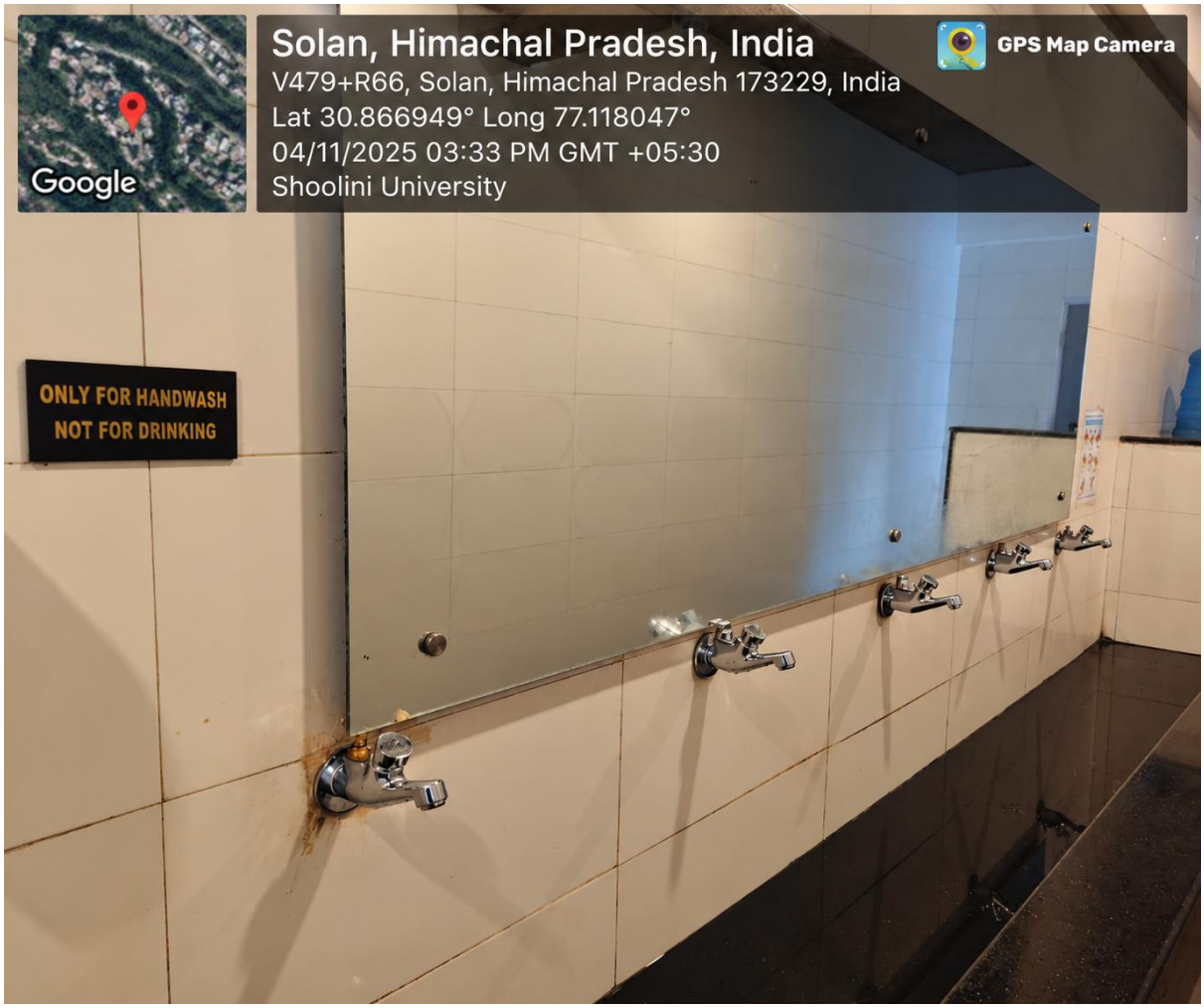
1. **Sensor-Based Faucets:** Installed in campus areas to automatically control and minimize unnecessary water flow.



Sensor-Based taps installed in A-Block

2. **Dual-flush toilet systems:** In campus washrooms as a water-efficient fixture, enabling users to select an appropriate flush volume and thereby reducing unnecessary water consumption and wastage.

3. **Low Flow taps:** Shoolini University has installed **609 low flow taps across the campus**. Reduces water consumption and minimises water wastage.



Low-flow taps installed in hostel mess for handwash

Sustainability in Design and Construction

The architectural design of our buildings reflects our commitment to sustainability. Each structure is meticulously planned to incorporate features that enhance energy efficiency and water conservation. For example, green roofs not only provide insulation but also facilitate rainwater collection, further reducing the demand for external water sources. Moreover, our campus layout promotes the use of permeable surfaces that allow rainwater to infiltrate the ground, reducing runoff and promoting groundwater recharge. This integrated approach to design ensures that every aspect of our campus contributes to our overarching goal of sustainability.

4. Rainwater harvesting

Shoolini University has adopted a range of innovative water management practices to ensure the sustainable use of this critical resource. The campus is equipped with a well-planned

rainwater harvesting system, which includes dedicated chambers for the collection and storage of rainwater from rooftops and open areas.

Harvested rainwater is used for irrigation, flushing and other non-potable purposes, while treated wastewater from the STP is reused for landscaping and other campus needs. To further reduce water consumption, University infrastructure incorporates water-efficient fixtures, permeable surfaces, rainwater recharge pits and efficient drainage systems, helping minimise water wastage and freshwater demand.



Roof-top rainwater harvesting system with downpipe in pharmacy block



Rooftop rainwater collection and conveyance system to dedicated chambers



Rooftop rainwater collection at A Block

Harvested rainwater supporting Construction Activities

Harvested rainwater is used to support construction activities across the University campus, reducing reliance on conventional freshwater sources. Integrating rainwater harvesting into construction projects promotes efficient water use, resource conservation and sustainable campus development. Each building project incorporates appropriate water-management systems, helping minimise freshwater consumption and strengthen the University's commitment to sustainable construction practices.

5. Groundwater Recharge and Surface Runoff Management

Shoolini University has implemented measures for groundwater recharge and surface runoff management, particularly considering the challenges associated with heavy rainfall in hilly terrain. A rainwater harvesting pond collects and stores excess rainwater during the monsoon season, which is subsequently used for irrigation, landscaping and other non-potable purposes.

These measures help reduce surface runoff, support groundwater recharge and minimise dependence on external water sources. This integrated system not only ensures the sustainable use of rainwater but also helps in reducing surface runoff, safeguarding campus infrastructure, and protecting nearby water bodies from erosion and contamination.



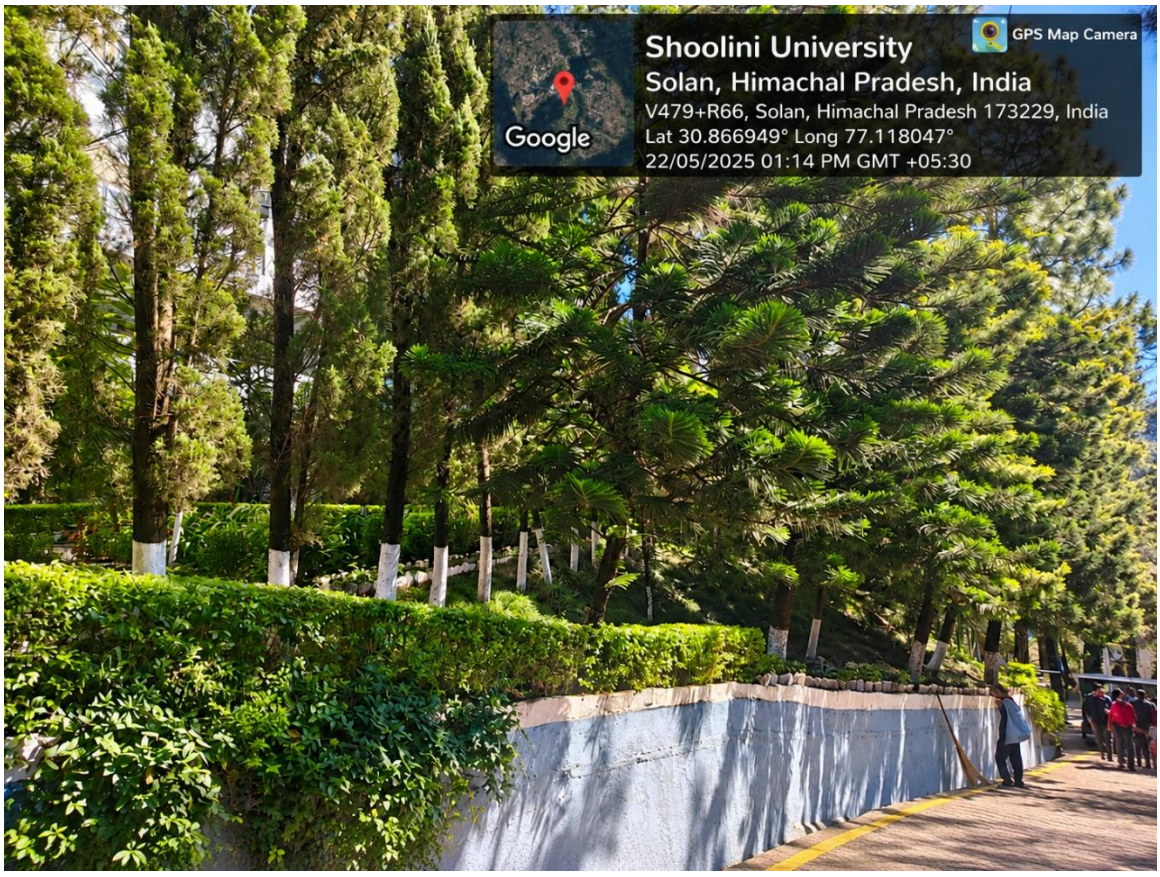
Water tank installed near the plant nursery to support plant irrigation



Groundwater Recharge and Surface water Run-off near Yogananda villa

6. Water-Efficient Landscaping

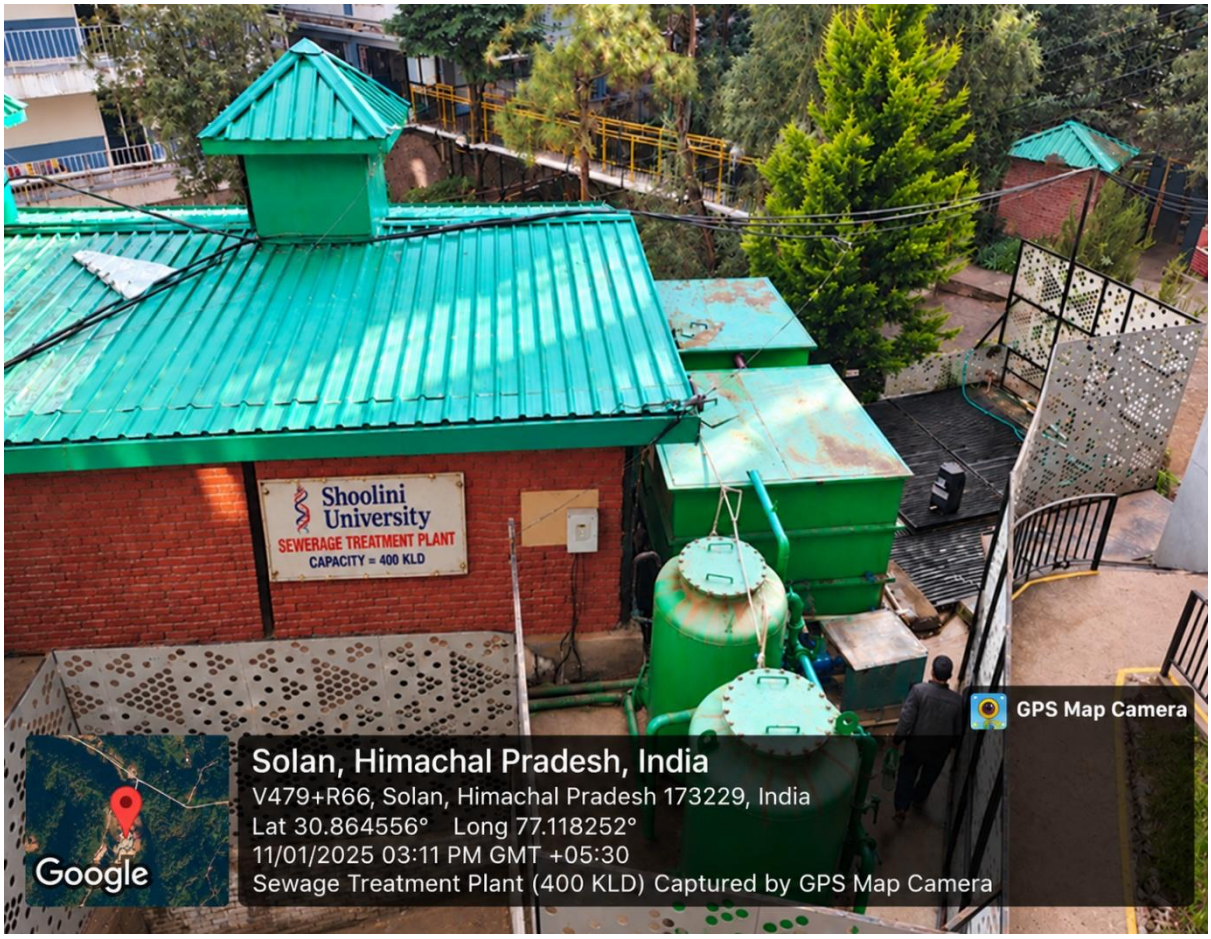
Shoolini University continued to strengthen its commitment to water-conscious landscaping and ecological sustainability through systematic plantation and expansion of campus green cover. During 2025, a total of 1,284 saplings representing 22 recorded species were planted across the University campus. The plantation included species such as Araucaria, Bottle Brush, Drake, Eugenia, Gooseberry, Golden Bottle Brush, Jamun, Jacaranda, Kachnar, Koelreuteria, Lagerstroemia, Nerium, Paltoform, Pencil Juniper, Punica, Putranjiva, Populur, Silver Oak, Tuni, Thuja, Weeping Willow, and Wild Cherry.



Landscape area outside the A block at campus

7. Wastewater treatment and reuse

Shoolini University has strengthened its commitment to responsible wastewater management and environmental sustainability through its upgraded Sewage Treatment Plant (STP). The University is dedicated to the effective treatment of wastewater and the maximum reuse of treated water for suitable non-potable purposes, thereby promoting water conservation and resource efficiency.



Sewage Treatment Plant having 400 KLD capacity

Water-conscious planting

In 2025, Shoolini University continued to strengthen its commitment to water-conscious landscaping and ecological sustainability through plantation initiatives and the expansion of campus green cover. A total of **1,284 saplings representing 22 recorded species** were planted across the University campus. Of these, **661 saplings representing 10 recorded drought-tolerant species** were planted to support water-efficient landscaping. The species included Bottle Brush, Gooseberry (Amla), Golden Bottle Brush, Kachnar, Koelreuteria, Nerium, Paltoform, Pencil Juniper, Punica (Pomegranate), and Silver Oak. The inclusion of drought-tolerant plant varieties can help reduce irrigation requirements once the plants are established, depending on local climatic conditions, soil characteristics, and appropriate maintenance practices. These initiatives contribute to the development of greener campus spaces while promoting responsible water use and sustainable landscape management.



Landscape area outside Yogananda library



Drought Plants at A - Block

Off-campus water conservation support

During 2025, Shoolini University extended its commitment to off-campus water conservation support through community-oriented environmental and sustainability initiatives. The University engaged students and community stakeholders in activities aimed at promoting awareness of water conservation, protection of natural water resources and prevention of water pollution. Student-led outreach activities included cleanliness drives around local water bodies and awareness initiatives focused on responsible water use and environmental protection.

The University also promoted sustainable approaches to natural-resource management through environmental education, biodiversity conservation and sustainable agricultural practices. These initiatives contribute to greater awareness of water-resource conservation and support environmentally responsible practices within the surrounding community. In addition, the University's experience with rainwater harvesting, groundwater recharge, wastewater recycling and efficient irrigation provides an institutional foundation for promoting sustainable water-management practices beyond the campus.

Table: Off-Campus Water Conservation and Community Outreach Activities — 2025

Sr. No.	Suitable Event Title	Date	Location	Nature of Activity	Water/Sustainability Relevance
1	Clean Today, Green Tomorrow: Water-Resource Cleaning and Conservation Drive	22 November 2025	Ashwini Khad	NSS volunteers collected and segregated plastic and other non-biodegradable waste from the water resource and sensitized local community members.	Water pollution prevention, protection of natural water resources and community awareness – SDG 6
2	Bisleri's Bottles for	22 April 2025	Shoolini University,	Students and volunteers	Pollution prevention, responsible

	Change: Cleaning Drive		Ashwani Khad	collected, segregated and promoted responsible recycling of PET bottles and plastic waste.	consumption and environmental protection – SDG 11 & SDG 13
3	Nurturing Nature: Ashwini Khad Water-Resource Cleaning and Community Engagement Drive	16 November 2025	Ashwini Khad	NSS students collected and segregated waste, conducted sustainability activities, and engaged local residents in environmental awareness.	Protection of water resources, waste management, environmental education and community participation

Activity 1:

Clean Today, Green Tomorrow – An Empathetic Cleaning Drive at Ashwini Khad

Date: 22 November, 2025

Venue: Ashwini Khad

Aligned with SDGs: SDG 6 – Clean Water and Sanitation | SDG 11 – Sustainable Cities and Communities | SDG 13 – Climate Action

On 22nd November, volunteers of the National Service Scheme (NSS) undertook a meaningful cleaning drive at Ashwini Khad, driven by a shared sense of responsibility toward nature and the local community. The initiative aimed not only to clean the area but also to foster empathy toward the environment by highlighting the impact of human actions on natural ecosystems. The volunteers actively engaged in the **collection and segregation of waste from water resources**, with a strong focus on removing plastic and other non-biodegradable materials that

threaten water quality and harm aquatic life. As the drive progressed, participants observed firsthand how careless disposal of waste affects natural water bodies, reinforcing the importance of mindful and sustainable practices.

Beyond physical cleaning, the activity encouraged **reflection and dialogue** among volunteers about environmental degradation, water conservation, and the need for collective action. The drive served as a learning experience, reminding participants that protecting nature begins with awareness, care, and everyday choices. The shared effort strengthened teamwork and instilled a deeper sense of connection with the surroundings. Local passersby and community members were also sensitized during the drive, as volunteers informally communicated the importance of maintaining cleanliness and respecting natural spaces. This interaction helped extend the message beyond the activity itself, encouraging broader community participation in environmental stewardship.

The cleaning drive at Ashwini Khad stood as a heartfelt reminder that **environmental care is an act of compassion**—for nature, for communities, and for future generations. Through this initiative, NSS reaffirmed its commitment to sustainable development, civic responsibility, and youth-led action, demonstrating how empathy and service can come together to create lasting positive change.



Volunteers after natural water-resource clean-up



Volunteer Participation in Natural Water-Resource Clean-Up Activities

Activity 2:

Bisleri's Bottles for Change: Cleaning Drive

SDG 13: Climate Action & SDG 11: Sustainable Cities and Communities

Date: 22nd April 2025

On this special Earth Day, Shoolini University joined hands with Bisleri's "Bottles for Change" initiative to take a bold step towards a cleaner, greener campus. The drive was a powerful reminder that small actions, when taken together, can spark big changes.

"Bottles for Change" is more than just a cleanup—it's a movement that transforms how we think about plastic waste. Instead of discarding PET bottles and plastic waste, the initiative

encourages us to collect, segregate, and recycle responsibly, turning what was once trash into valuable resources. This circular approach to plastic is vital for protecting our environment and reducing pollution.

On April 22, a dedicated group of students and volunteers scoured the campus grounds, collecting plastic waste with energy and enthusiasm. Each bottle picked up was a step towards breaking the cycle of plastic pollution and building awareness about sustainable living.

The drive not only cleared the campus but also instilled a deep sense of responsibility and environmental consciousness in every participant. It was a beautiful collaboration of youth passion, community spirit, and corporate commitment, perfectly aligned with global efforts to promote responsible consumption and climate action.

As we walked through the campus, collecting plastic and sharing smiles, we became part of a larger story—one where every bottle collected is a bottle for change.



Youth Engagement in Promoting Cleanliness Drive on Earth Day

Activity 3:

Nurturing Nature: Ashwini Khad Cleaning Drive by NSS Students

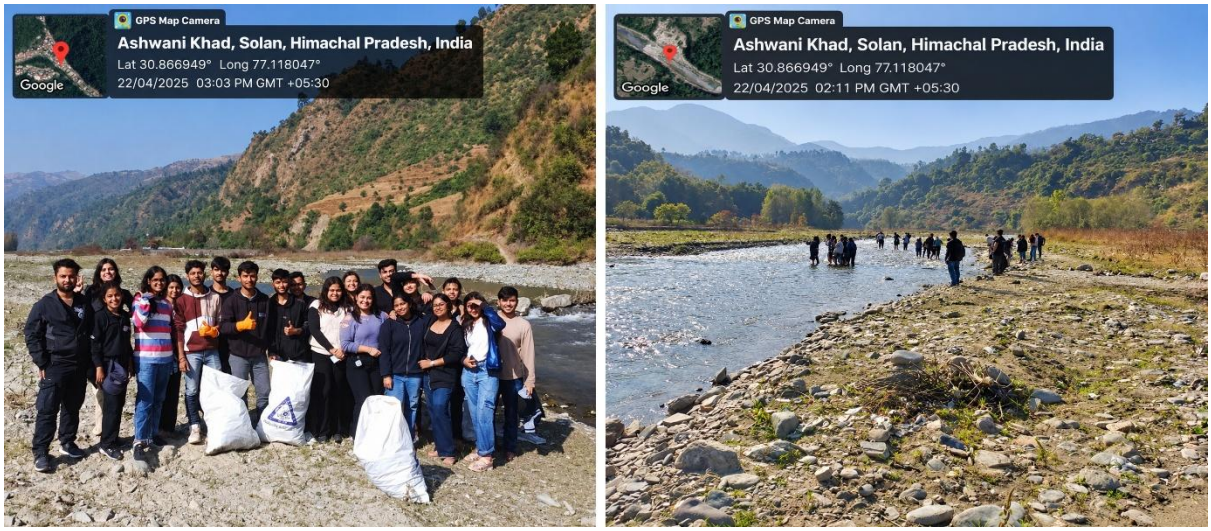
Date: November 16, 2025

NSS students from Shoolini University organized a cleaning drive at Ashwini Khad, focusing on environmental conservation and sustainability. The event aimed to promote awareness about the importance of waste management and community involvement in preserving the environment. The students actively collected litter and segregated it into recyclable and non- recyclable categories, ensuring proper disposal.

What made this drive unique was its incorporation of fun and engaging activities. Students participated in friendly waste-collection challenges and sustainability-themed scavenger hunts, making the event both productive and enjoyable. Creative workshops on upcycling allowed participants to transform waste materials into useful or decorative items, showcasing practical ways to reduce waste. Sustainability-themed quizzes and interactive skits further educated participants and locals on the significance of reducing, reusing, and recycling.

The cleaning drive emphasized teamwork, creativity, and community outreach, creating a lively atmosphere that inspired everyone involved. Local residents also joined in, fostering a sense of shared responsibility for the environment. This initiative highlighted Shoolini University's commitment to sustainability, showcasing how small actions, combined with awareness and engagement, can make a significant impact. By blending education with hands- on efforts, the Ashwini Khad cleaning drive served as a model for promoting environmental consciousness and community involvement.

By combining education with hands-on action, the Ashwini Khad cleaning drive not only promoted sustainability but also strengthened bonds within the community, leaving a lasting impact.



Volunteers participating in a riverbank cleaning drive, collecting waste

Activity 4:

Promoting Clean Water and Sustainable Water Practices in the Local Community

Date: July 19, 2025

Shoolini University recognizes the importance of collaboration with local communities in promoting water security, environmental conservation, and sustainable management of natural resources. In this context, engagement with **Sanol Gram Panchayat** provides an opportunity to strengthen community awareness and encourage responsible water-management practices in the surrounding region. These efforts align with **Sustainable Development Goal 6 (SDG 6)**

The key objectives of cooperation on water security with Sanol Gram Panchayat include promoting awareness about water conservation, encouraging the protection of local water sources, and highlighting the importance of sustainable water use. The initiative also aims to encourage community participation in preventing water pollution and maintaining the cleanliness of natural water bodies.

Promoting water conservation awareness and encouraging households to adopt responsible water-use practices. The collaboration may also focus on protecting local water sources from pollution and improper waste disposal. Community engagement can be strengthened by involving students, local residents, and Panchayat representatives in water conservation and environmental awareness activities. Knowledge-sharing on rainwater harvesting, groundwater recharge, and sustainable water management can further encourage the conservation of water

resources for future generations. Additionally, promoting proper waste management practices can help prevent the contamination of local water bodies**.**

Such cooperation can contribute to increased awareness of water security among local residents, improved understanding of water conservation practices, and stronger community participation in environmental protection. It can also encourage the adoption of sustainable approaches to water use and support the long-term protection of local water resources.

Shoolini University's engagement with Sanol Gram Panchayat reflects an opportunity to strengthen university–community relations through environmental awareness and sustainable water-management initiatives. By encouraging knowledge-sharing and community participation, these efforts can support local water security and contribute to the objectives of SDG 6. Continued cooperation, supported by documented activities and evidence, can further strengthen these initiatives and promote a more water-conscious community.



Students and villagers attending the awareness session

Cooperation on water security

Shoolini University recognizes water security as a shared institutional and societal responsibility requiring collaboration among government agencies, academic institutions, industries and local communities. During 2025, the University strengthened its engagement in

water security through collaborations focused on water conservation, wastewater treatment, water recycling, water-quality assessment and sustainable water-resource management.

The University's collaborative approach complements its internal water-management infrastructure, including rainwater harvesting, sewage and effluent treatment, wastewater recycling and groundwater-recharge measures. These activities support the University's contribution to SDG 6: Clean Water and Sanitation.

Shoolini University's Commitment to Water Security

Shoolini University actively collaborates with government initiatives and partner organizations to promote sustainable water security solutions at local, regional, and national levels.

1. Local Government

I. Shoolini University Collaboration with Healing Himalayas:

Shoolini University collaborates with Healing Himalayas Foundation to promote environmental conservation and sustainability. The collaboration involves student participation in cleanliness drives, responsible waste management and environmental awareness initiatives. University students actively contribute to cleaning activities aimed at reducing waste and protecting the Himalayan ecosystem. The partnership also encourages responsible environmental practices and community engagement among young people. Through these initiatives, the University promotes social responsibility and sustainable development. The University has organized several joint activities with Healing Himalayas, including cleaning drives in Shimla and surrounding areas, as well as tree plantation initiatives. These activities provide students with practical opportunities to participate in environmental conservation and community service. The collaboration supports the University’s commitment to the United Nations Sustainable Development Goals (SDGs), particularly SDG 13 (Climate Action) and SDG 15 (Life on Land). These activities reflect its commitment to environmental protection and a cleaner, greener future.

HEALING HIMALAYAS

25th April 2025

Shoolini University,
Kausauli Hills,
Solan, Himachal Pradesh
173229

A NOTE OF APPRECIATION FOR VOLUNTEERING WITH HEALING HIMALAYAS

The addressed university is based in Himachal Pradesh since 2009, in Solan District. The private university aims to bring innovative dynamics in academic sector while following the virtues of honesty, compliance and integrity. The university considers its social responsibility along with reaching to its academic purpose. The students of the university are taught with a telos of raising learned and responsible youth of society.

The university has not left any stone unturned in educating their students to qualify with a sense of sensitivity towards society, its ecology and other agents thereby making students an example to other academic institutions. Since the past three years, Shoolini University has been participating and inculcating a habit of responsible Waste-Management among its students through active participation in the cleaning drives conducted by our organisation. The university bears immense enthusiasm in serving the environment. For every cleaning drive the university allow us number of volunteers from student community to ease our solid waste management. Together we aspire for a healthy and sustainable future of pupil/people.

The approach of the university has prima facie brought a responsible attitude among its students. The youth population is indeed an advantage but when the group becomes responsible it brings glory to an entire nation. No wonder Shoolini University has been one amongst the institutes which is contributing in bettering our tomorrow.

We appreciate the participation of the University for all these years and hope for more participation in forthcoming drives. It is to our delight that we get to experience such young and responsible participation from your students.

Thank You.
Pradeep Sangwan,
Founder-Healing Himalayas

HEALING HIMALAYAS
Registered Office: B-24,Anarkali Garden, Jagatpuri, New Delhi-110051
Contact No. +91- 9278626960, 7827097975
Email Address: Pradeep@healinghimalayas.org

Appreciation letter from Healing Himalyas



Volunteers during clean-up water resources

II. Shoolini University Collaboration with Sanol Gram Panchayat

Shoolini University engages with the local community, including Sanol Gram Panchayat, to promote environmental sustainability and responsible management of natural resources. Potential areas of cooperation on water security include raising awareness about water conservation, protecting local water sources, and encouraging responsible water use. Community awareness activities can highlight the importance of preventing water pollution and maintaining clean water bodies. Student and community participation can further strengthen local efforts toward sustainable water management. Such initiatives align with SDG 6: Clean Water and Sanitation and support long-term water security.



Students and villagers attending the awareness session in Sanol panchyat

2. Regional Government

HIMCOSTE and Shoolini University signed an agreement

Shoolini University has signed a concessionaire agreement with the Himachal Pradesh Council for Science, Technology, and Environment (HIMCOSTE) to manage and curate the upcoming State Science Museum and Planetarium in Shimla, while also collaborating on water treatment and environmental sustainability initiatives. The partnership, signed in the presence of Chief Secretary Mr. Prabodh Saxena, aims to promote science education and practical learning through the establishment of the Centre for Science, Learning, and Creativity at Shoghi. Under this collaboration, both institutions will work jointly on wastewater treatment, water recycling, and sustainable innovation projects, aligning with national goals for clean water and climate resilience. This marks a major step toward integrating scientific education with environmental conservation in Himachal Pradesh.

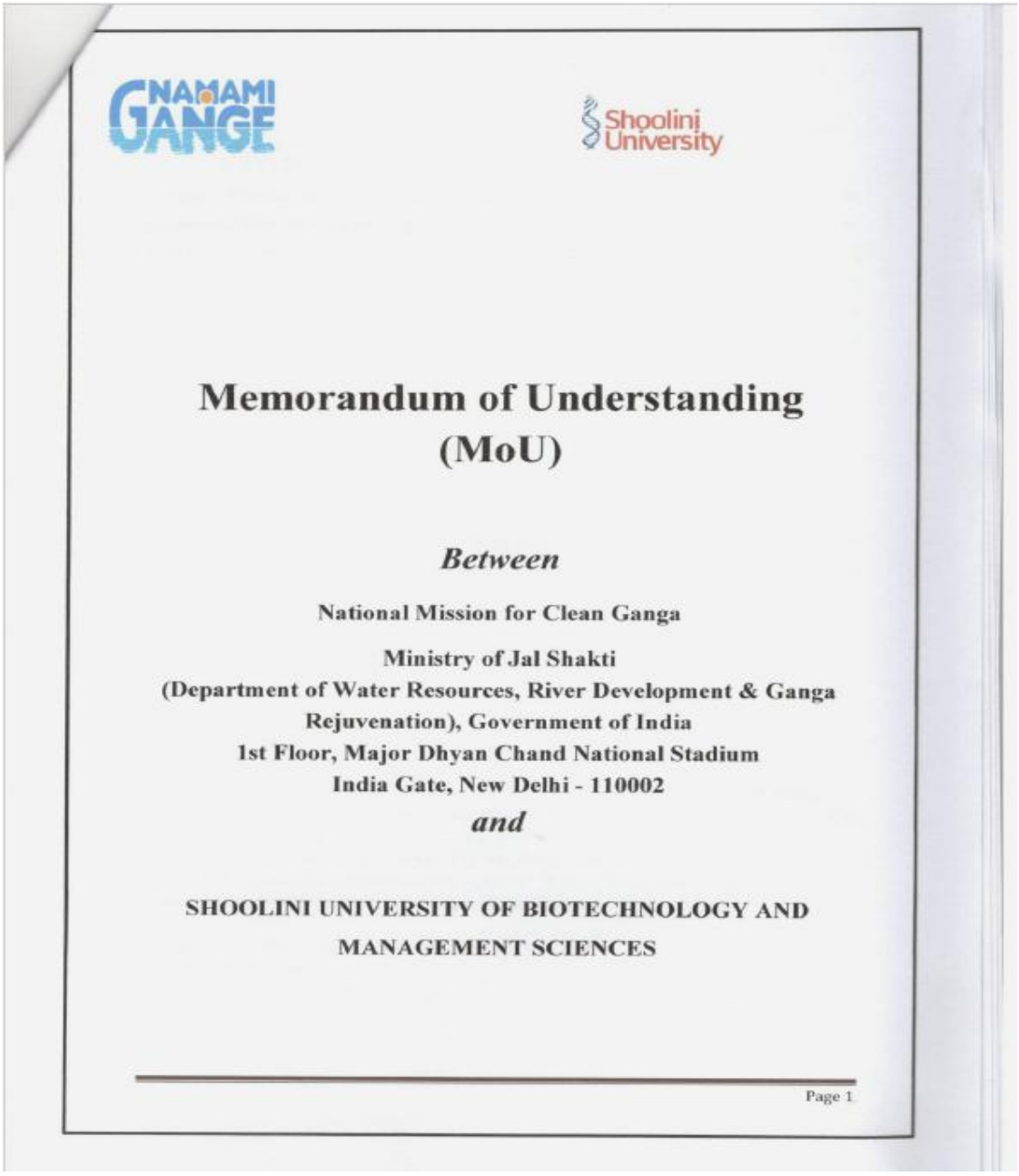


HIMCOSTE and Shoolini University Partner to Curate State Science Museum and Planetarium in Shimla

3. National Government

MoU signed with the Ministry of Jal Shakti

Shoolini University has developed strong collaborations with the Government of India to advance sustainable water management and conservation efforts. A key milestone in this direction is the Memorandum of Understanding (MoU) signed with the Ministry of Jal Shakti, which aims to promote efficient water resource management, conservation practices, and community awareness initiatives. Through this partnership, the university leverages its academic expertise, research capabilities, and technological innovations to contribute to national priorities under flagship programs such as the Jal Shakti Abhiyan, Atal Bhujal Yojana, and the National Water Mission. This collaboration strengthens the university's role in driving evidence-based policy interventions and implementing sustainable solutions for water security at both regional and national levels.



NAMAMI GANGE

Shoolini University

Memorandum of Understanding (MoU)

Between

National Mission for Clean Ganga

Ministry of Jal Shakti
(Department of Water Resources, River Development & Ganga Rejuvenation), Government of India
1st Floor, Major Dhyan Chand National Stadium
India Gate, New Delhi - 110002

and

SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES

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Shoolini University MOU with Ministry of Jal Shakti

Registered Patents related to Water Security

Shoolini University stands at the forefront of research and innovation addressing the complex challenges of water security through the development of advanced, practical, and sustainable technologies. The university's strong focus on applied research has resulted in several patents filed and granted by its researchers, reflecting its dedication to finding real-world solutions for water conservation, purification, and management. These innovations demonstrate Shoolini's commitment to supporting both environmental sustainability and community well-being by integrating scientific research with social impact.

Sr. No.	Title	Inventors	Application No.
1	A triangular jet-based water aeration system	Diksha Puri, Dr. M.S. Thakur, Dr. Parveen Sihag	202511063989
2	An enhanced visible light photocatalyst for wastewater treatment and process thereof	Anita Sudhaik, Aastha Dhawan, Pankaj Raizada, Pardeep Singh	202511076047
3	Magnetically recoverable and multifunctional nano photocatalysts for the wastewater remediation applications	Rohit Jasrotia, Sanjay Kumar, Yash Pal Singh	202511002074
4	A novel oxygen vacancy-rich photocatalyst for photodegradtion of tetracyline	Komal, Pankaj Raizada, Pardeep Singh	202511068489
5	Z-scheme heterojunction photocatalyst with improved photocatalytic activity and recyclability	Sonu, Rohit Kumar, Pardeep Singh, Pankaj Raizada	202511032845
6	A composite for enhanced photocatalytic degradation of organic pollutants	Rohit Kumar, Shivam, Pankaj Raizada, Pardeep Singh	202511081411
7	Multifunctional magnetic nanoparticle for removal of crystal violet in textile wastewater using dy-doped ferrites	Rohit Jasrotia, Sanjay Kumar, Abhishek Kandwal, Yash Pal Singh	202511002326
8	A ternary heretojunction photocatalyst and process for preparing the same	Anita Sudhaik, Priya Drashni, Pankaj Raizada, Pardeep Singh	202511076041

9	A composite photocatalyst for azo dye removal	Dr. Pooja Dhiman, Jayati Sharma, Dr. Amit Kumar, Dr. Gaurav Sharma	202511035631
10	A photocatalyst for effective photodegradation of organic pollutants	Vatika Soni, Pankaj Raizada, Pardeep Singh	202511076038
11	A dual Z-scheme photocatalyst of C3N4/ZnO/Bi2O3 and a method of preparation thereof	Rohit Kumar, Dixit Kumar, Raksha Devi, Ekta Devi, Pardeep Singh, Pankaj Raizada	202511037686
12	An efficient heterojunction photocatalyst for rapid degradation of norfloxacin	Sahil Rana, Dr. Pooja Dhiman, Dr. Amit Kumar, Dr. Gaurav Sharma	202511032740
13	A microcrystalline cellulose composite for photo degradation of organic dye	Dr. Pankaj Raizada, Ms. Shilpa Patial, Dr. Pardeep Singh	202511040460
14	An innovative green nano catalyst and method of preparing the same	Hemant Singh, Varun Aggarwal, Ankit Kachore, Ekta Bala, Dr. Praveen Kumar Verma, Dr. Saima	202511076046
15	A dual Z-scheme photocatalyst and a method of preparation thereof	Sonu, Anita Sudhaik, Pardeep Singh, Pankaj Raizada	202511035633
16	Agar Beads-Based Bacteriophage Encapsulated Water Purification Composition	Dr. Lokender Kumar	202566347011
17	Multifunctional Magnetic Nanoparticle for Removal of Crystal Violet in Textile Wastewater	Rohit Jasrotia, Sanjay Kumar, Yash Pal Singh	202511902089

Through these innovations, Shoolini University continues to strengthen its role as a research-driven institution contributing to India's water security agenda. The university's patent-driven approach underscores its mission to combine scientific advancement with sustainability, ensuring that technology serves both people and the planet.

Centre for Science Learning and Creativity (CSLC) Science Museum, Shoghi, Shimla
Workshop Highlight: Water Conservation and Rainwater Harvesting

The CSLC Science Museum hosted a week-long workshop on Water Conservation and Rainwater Harvesting, jointly organised by EIACP and HIMCOSTE. Throughout the week, participants engaged in informative sessions and practical activities focusing on water conservation, rainwater harvesting techniques, and their role in addressing water-related challenges amid changing climatic conditions. The workshop strengthened awareness of sustainable water management and encouraged participants to connect scientific knowledge with practical conservation measures.

The initiative highlighted the importance of responsible water stewardship and collective action in protecting water resources, supporting SDG 6: Clean Water and Sanitation.



Group photographs of workshop held in CSLC Science Museum

SDG 7: Affordable and Clean Energy

Shoolini University has bagged top No.21 global ranking for SDG 7. The Centre of Excellence in Energy Science and Technology (CEEST) is coordinating the implementation of United Nations Sustainable Development Goals (UNSDGs) in Shoolini University. In order to ensure access to affordable, reliable, clean, and sustainable energy for all, the University has taken several measures and formulated and implemented Energy and Environment Policies in order to achieve the UNSDG targets. In order to ensure access affordable, reliable, clean, and sustainable energy for all, Shoolini University has taken several measures in renewable energy education research, technology implementation and formulated and implemented the Energy & Environment and other sustainability policies in order to achieve the UNSDG -7 targets. The university intends to develop itself as a sustainable energy education and research hub and a sustainable development township to act as a model for other Higher Education Institutions in India. CEEST was established in 2019, which is led by Prof. Shyam Singh Chandel who comes under the global top 2% of scientists according to research conducted by Stanford University.

The University has implemented several environmentally friendly solar projects in the University campus for generating solar electricity, hot water and solar steam cooking and energy efficient net zero energy buildings. Under the projects from Ministry of New & Renewable Energy, Govt of India, the Campus of Shoolini University has been converted into a Green Energy Campus with solar energy utilization & environmentally friendly technologies.

Education

The global thrust on utilization of Renewable Energy utilization to reduce greenhouse gas emissions for climate change mitigation calls for all organizations and higher education institutions to take immediate measures to lower their carbon footprint. Shoolini University has established a Shoolini University has established a Centre of Excellence in Energy Science & Technology and large number of research publications have already been published. Many research papers in these areas have been published in top ranking Journals which has led to top No.21 global ranking for SDG 7 for the University as per THE global impact ranking in 2025 and No. 13 in 2026.

Research in Energy, FWCI metrics related to SDG-7 of Shoolini University:

Table : *Field-Weighted Citation Impact of Shoolini University for SDG-7 for year 2025 as per SciVal Database*

Name	Scholarly Output	Field-Weighted Citation Impact	Citation Count
SDG 7: Affordable and Clean Energy (2025)	102	1.77	1563
SDG 13: Climate Action (2025)	54	2.57	1060

Energy Generation and Consumption (2025)

During 2025, Shoolini University recorded total electricity consumption of **1,931,579 kWh**, of which **361,577 kWh** was generated through solar energy, accounting for approximately 19% of the reported electricity consumption. The University's energy monitoring also covered diesel consumption and associated greenhouse gas emissions, following the GHG Protocol and relevant emission-factor guidelines.

Observation

- Electricity consumption increased from 1,234,852 kWh in 2021 to 1,931,579 kWh in 2025.
- Solar energy generation decreased from 408,942 kWh in 2021 to 361,577 kWh in 2025.
- The reported solar contribution declined from 33% in 2021 to 19% in 2025.
- Total Scope 1 and Scope 2 greenhouse gas emissions increased from 709,732 kg CO_2e in 2021 to 1,721,679 kg CO_2e in 2025.
- Scope 1 emissions from fuel consumption reached 423,287 kg CO_2e in 2025, indicating the importance of monitoring and reducing diesel use.
- Improvement opportunity: Increase renewable energy generation, enhance energy efficiency, and strengthen annual monitoring of electricity consumption and greenhouse gas emissions.

Initiative on Solar Photovoltaic power generation -Installation of a 400 kWp Grid Connected Solar Photovoltaic Power Plant - An initiative under SDG 7 and 13

Solar Energy is harnessed through Solar Photovoltaic panels installed on the rooftops of the University building blocks, hostels and car parking. The University campus is connected to the main grid operated by HP State Electricity Board (HPSEB). The solar electricity so generated

is used to meet the partial energy needs of the University. The electrical energy used by the university was 19,31,579 kWh or 6,954 GJ and that generated by solar PV plant was 3,61,577 kWh or 1,302 GJ for 2025.



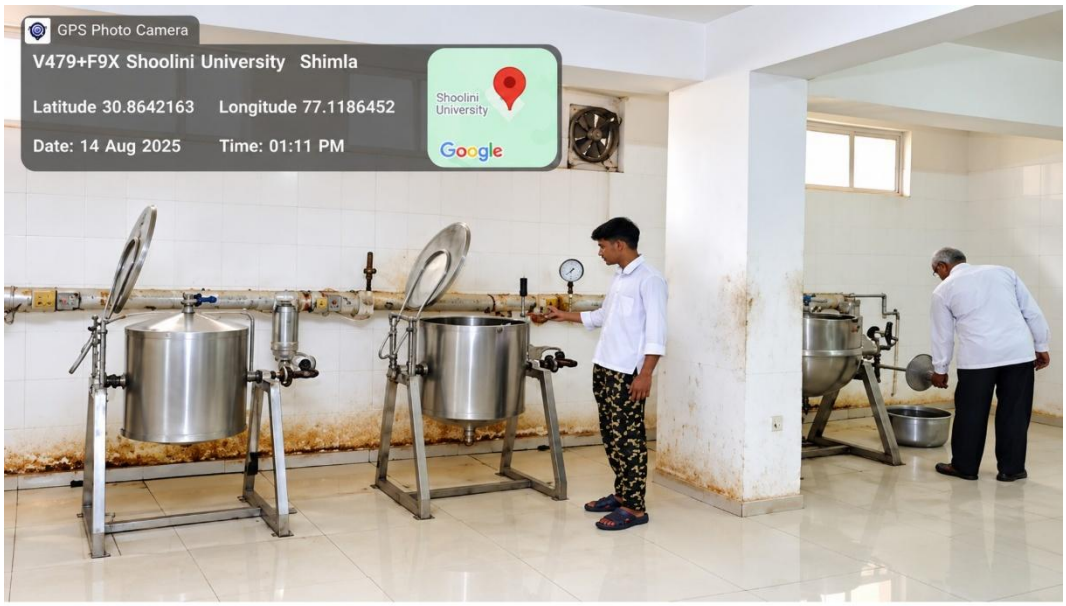
Solar Pannel installation on campus



400 kWp Grid connected Solar Photovoltaic Power Plant at Shoolini University

Concentrated Solar Steam Generating Cooking System

A Solar steam generating cooking system (Scheffler Type) is installed on the roof top of Girls hostel of Shoolini University. The system is based on the concentrated solar technology.





Concentrated solar powered community steam cooking system

Solar water heating systems for hostels

Solar flat plate collectors and evacuated tube collectors are installed in all hostels of the University provide hot water daily for hostel residents.



Water heating solar in roof top of Aryabhata hostel



Solar Pannel at rooftop of New Boys Hostel

Reducing Fossil Fuel Consumption through Electric Mobility

Shoolini University has significantly reduced its dependence on fossil fuels by introducing electric carts for intra-campus transportation. These eco-friendly vehicles provide safe, quiet, and emission-free mobility for students, faculty, staff, and visitors across the hilly terrain of the campus. By replacing conventional petrol or diesel-based vehicles with battery-operated electric carts, the University has effectively minimized carbon dioxide emissions and promoted sustainable mobility practices. The initiative not only supports the University's goal of achieving Net Zero Emissions by 2028 but also enhances accessibility while maintaining a clean and healthy environment. The electric carts are charged using renewable solar power generated on campus, further aligning the transportation system with Shoolini's commitment to green energy and low-carbon operations. Through this transition, the University continues to demonstrate leadership in integrating clean transportation technologies within higher education institutions, setting a benchmark for environmentally conscious campus management.



Electric Carts for local transportation on the university campus

Bio-energy utilization - Use of biogas for Cooking from agriculture and Animal Wastes

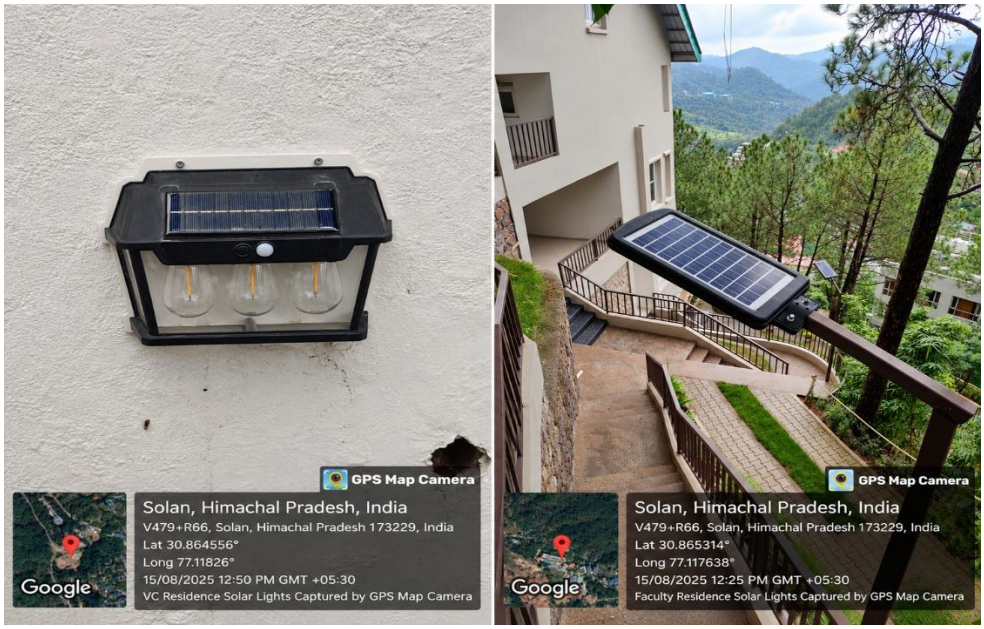
In order to utilize agriculture, cow dung, food waste and kitchen waste, and promote the research and use of biogas as the fuel, the CEEST has installed a 1.5 m3 Plastic biogas system for demonstrating use of non-polluting fuel in the agricultural farm of the University which is being used for cooking by the farm laborers.



Biogas plant for cooking installed in agriculture farm in Shoolini university

Installation of Solar Street Lights

Shoolini University has installed streetlights of 40W capacity inside the campus for nighttime lighting purposes thus utilizing free Solar energy and saving conventional electricity. Small 5W solar path lights are also installed.



Solar streetlights installed in the University campus

Monitoring solar, wind, and other climate data for research

CEEST has installed a high-quality automatic weather station on the roof top of the library building that monitors global solar irradiance, wind speed, wind direction, temperature, relative humidity, rainfall data as well as photosynthetic active radiation which are critical for research and development of new energy technologies, climate change related hence contributing towards research and development SDG-7 and SDG-13. The data are being used in boosting the reliable research and development of renewable energy technologies, by utilization of the renewable resources, and making plans for the sustainable township.



Automatic weather station installed at Yogananda Library Rooftop

Shoolini University has installed a 2.5 kW Wind–Solar PV Hybrid Off-Grid Power Plant to support renewable energy generation and promote sustainable campus operations. The hybrid system integrates wind and solar photovoltaic technologies to harness renewable energy sources and support the University's commitment to clean energy and climate action.

Alignment with the UN Sustainable Development Goals:

- **SDG 7** – Affordable and Clean Energy: Promotes the use of renewable energy technologies.

- **SDG 13** – Climate Action: Supports efforts to reduce reliance on conventional energy sources and associated greenhouse gas emissions.



2.5 kW Wind–turbine installed at Shoolini University

Conferences and Events

Report on the International Conference on Applied Artificial Intelligence and Innovation (AAIIC 2025)

Organising Institution: Yogananda School of AI, Computers, and Data Science (YSAICDS), Shoolini University, Solan, Himachal Pradesh, India
Date: 11–12 July 2025
Duration: Two Days International Conference
Participants: Academicians, researchers, faculty members, students, and industry professionals
Conference Theme: Applied Artificial Intelligence and Innovation

1. Introduction

The Yogananda School of AI, Computers, and Data Science (YSAICDS) at Shoolini University organised the **International Conference on Applied Artificial Intelligence and Innovation (AAIIC 2025)**, a two-day academic and research event bringing together experts, researchers, academicians, and industry professionals to discuss emerging developments and practical applications of artificial intelligence (AI).

The conference provided a platform for knowledge-sharing, interdisciplinary research, international academic interaction, and industry engagement. Various academic and industry fields participated in the event, contributing to discussions on the growing role of AI in education, energy, ethics, intelligent systems, automation, manufacturing, and enterprise solutions.

2. Inaugural Session and Key Addresses

The conference commenced with a welcome address by Assistant Professor Piyush Sewal, followed by inaugural remarks from Prof. Virender Rihani, Dean, Faculty of Engineering. Prof. Rihani highlighted the increasing relevance of artificial intelligence across academic and industrial sectors and emphasised the importance of focused discussions and knowledge-sharing.

In his keynote address, Prof. P. K. Khosla, Chancellor of Shoolini University and Chief Patron of AAIIC 2025, emphasised that AI is transforming industries worldwide. He highlighted the role of international conferences in creating platforms for collaboration, innovation, and problem-solving. Prof. Atul Khosla, Vice Chancellor of Shoolini University, discussed the university's commitment to interdisciplinary AI research and the development of AI-driven solutions addressing national and global needs. Prof. Ashish Khosla, President and Chief Innovation & Marketing Officer at Shoolini University and Patron of AAIIC 2025, highlighted the importance of creating collaborative environments where researchers, industry experts, and students can jointly develop impactful AI applications.

3. International Academic Participation

The conference featured international speakers who shared research insights and expertise in emerging AI technologies and their practical applications. Speakers included:

- **Sanjay Misra** – Universidad de Alcalá, as listed in the conference announcement.

- **Shailendra Rathore** – Abertay University, United Kingdom.
- **Yerzhan Kerimbekov** – Zhanibekov University, Kazakhstan.
- **Laura Baitokayeva** – Nazarbayev Intellectual School, Kazakhstan.
- **Tomáš Čech** – Palacký University, Czech Republic.

The conference also involved Prof. Manju Khari of Jawaharlal Nehru University and Prof. K. K. Patel of Charotar University of Science and Technology as Conference Theme Chairs. They emphasised the importance of collective learning, teamwork, and research collaboration in advancing the field of artificial intelligence.

The participation of speakers from different institutions and countries strengthened the conference's international academic character and provided opportunities for exchanging research knowledge and perspectives.

4. Industry Participation and Practical Applications

An important component of AAIIC 2025 was the involvement of industry professionals. Senior professionals from Tata Consultancy Services (TCS), Apoorv Aggarwal and Rajit Sikka, shared insights into the practical application of AI across automation, manufacturing, and enterprise solutions.

Their sessions highlighted how businesses are integrating AI technologies into operational processes, developing intelligent systems, and improving the application of digital technologies in industrial environments.

This academic–industry interaction helped connect theoretical research with practical requirements and demonstrated the value of cooperation between universities and industry in technological innovation.

5. Major Themes and Areas of Discussion

The conference explored a range of themes related to the development and application of AI, including:

Artificial Intelligence in Energy: Examination of AI applications in energy-related systems and technological innovation.

AI in Education: Discussion of emerging AI applications that can support educational practices, research, and learning processes.

Ethics and Responsible AI: Consideration of ethical questions and the responsible development and application of artificial intelligence.

Intelligent Systems: Exploration of emerging research and applications in intelligent computing and AI-driven systems.

AI in Industry: Discussion of applications in automation, manufacturing, enterprise systems, and industrial operations.

These themes encouraged interdisciplinary dialogue and highlighted the potential of artificial intelligence to address challenges across academic, industrial, and societal contexts.

6. Relevance to Sustainable Development Goals

SDG 7: Affordable and Clean Energy

The conference included discussions on AI in energy, providing a thematic connection with **SDG 7 – Affordable and Clean Energy**. AI technologies have potential applications in energy-system optimisation, energy-demand analysis, operational efficiency, and the integration of emerging energy technologies.

The conference's energy-related discussions therefore offered a platform for exploring the role of AI in energy innovation. However, any claim that specific renewable-energy or energy-efficiency outcomes were achieved would require additional evidence from the conference programme, presentation materials, or proceedings.

SDG 13: Climate Action

Artificial intelligence can contribute to climate-related research through environmental data analysis, climate modelling, monitoring systems, and the development of technology-based approaches to environmental challenges.

AAIIC 2025 promoted discussion and collaboration around applied AI and innovation, creating a potential connection with technology-driven approaches to sustainability. Nevertheless, the available conference description does not establish a dedicated climate-action session or a measured climate impact. A direct SDG 13 claim should therefore be supported by relevant presentation titles, abstracts, or session documentation.

7. Coordination and Organisation

The conference was coordinated by Prof. Pankaj Vaidya and Associate Professor Gaurav Gupta, who played central roles in conceptualising and organising the event.

The involvement of the organising team, institutional leadership, international speakers, academic participants, and industry professionals helped establish a platform for dialogue, collaboration, and innovation. The event also reinforced Shoolini University's efforts to advance applied AI research and interdisciplinary learning.

8. Outcomes and Significance

The conference brought together 72 participants from academic and industry fields and provided opportunities to:

1. Exchange research knowledge and perspectives on emerging artificial intelligence technologies.
2. Encourage international academic interaction and interdisciplinary collaboration.
3. Connect academic research with industry applications in automation, manufacturing, and enterprise solutions.
4. Explore AI applications across energy, education, ethics, and intelligent systems.
5. Highlight opportunities for collaboration between researchers, students, and industry professionals.

The conference strengthened dialogue on applied AI and innovation while providing a platform to examine the wider implications of emerging technologies.



AAIIC 2025, academia and industry experts

Our Power, Our Planet: Shoolini's Earth Day 2025 – A Celebration of Innovation, Inclusion & Sustainability

SDG 7 Affordable and Clean Energy

Shoolini University | Event report 2025

SDG 4: Quality Education , SDG 7: Affordable and Clean Energy , SDG 11: Sustainable Cities and Communities , SDG 12: Responsible Consumption and Productio n & SDG 13: Climate Action

Date: 24th April 2025

Venue: Covered Parking, Shoolini University

On April 24th, 2025, Shoolini University came alive with the spirit of Earth Day through a vibrant, purpose-driven celebration that united sustainability, innovation, and artistic expression. At the heart of the event was the Inter-School Eco-Challenge , where nine schools competed passionately across four dynamic categories: Clean Energy Live Demo, Waste-to-Wonder DIY Challenge, Green Bazaar Exhibition , and Poster Making . Each school brought forward incredible creativity and collaboration—demonstrating working models of clean

energy, repurposing waste into functional and beautiful products, setting up stalls that embodied the 3Rs (Reduce, Reuse, Recycle), and crafting thought-provoking posters under the theme “Our Power, Our Planet.” This spirited challenge ignited both friendly competition and a deeper commitment to environmental stewardship.

Adding vibrancy to the celebration were thoughtfully curated stalls showcasing sustainable entrepreneurship and creativity. Lilac Oculi featured handmade jewellery inspired by the four elements, while eco-friendly scented candles offered a calming touch. The Trikut stall stood out with its zero-waste, all-paper designs. Guests enjoyed naturally blended drinks, handmade eco-cards, North East delicacies, and indulgent treats like mango cheesecake and chocolate-dipped strawberries—a delightful blend of sustainability and sensory joy.

More than just a celebration, Earth Day 2025 at Shoolini University was a vibrant call to action, led by informed and passionate youth. The event showed how academic institutions can become living labs for sustainability by blending culture, science, and community. Contributions from all nine schools—from engineering to arts—highlighted that sustainability is a shared mission, not confined to one field. It laid the groundwork for long-term impact through zero-waste products, renewable materials, and ethical consumption.

Ultimately, Earth Day 2025 symbolized Shoolini University’s vision of nurturing leaders who not only excel in their fields but also champion the planet. It reinforced the belief that small, consistent efforts—when rooted in education and community—can create ripples of change. As the echo of the day’s activities fades, its message remains clear: a sustainable future starts with us—today, together.



International Earth Day Event Poster 2025

Walking Into a Greener Tomorrow: Campus Tour (Induction 2025)

SDG 7 Affordable and Clean Energy

Shoolini University | Event report 2025

SDG 3: Good Health & Well-being , SDG 4: Quality Educatio n SDG 6: Clean Water and Sanitation, SDG 7: Affordable and Clean Energy, SDG 11: Sustainable Cities and Communities, SDG 12: Responsible Consumption and Production, SDG 13: Climate Action & SDG 15: Life on Land

Date: August 21-23 , 2025

The Campus Tour organized during Induction 2025 between 21st and 23rd August was carefully designed to introduce freshers to their new academic home while embedding within them a sense of responsibility towards the environment. More than just an orientation walk, it was a guided journey into the sustainable heartbeat of the university, where every building, pathway, and practice reflects the institution’s green commitment.

One of the most memorable stops on the tour was the Yogananda Library—a symbol of both learning and sustainability. Students were welcomed by colorful, student-friendly posters placed throughout the library, each carrying engaging messages on themes such as energy conservation, water management, and responsible consumption. Walking through the aisles, freshers were not only introduced to academic resources but also to the green principles guiding the campus. Beyond the library, the tour covered a series of sustainability-rich spaces across campus. At the solar rooftops, students learned how clean energy powers classrooms and laboratories.

Adding a fun and interactive element, the orientation also included classic campus games such as tug-of-war and sack races. These activities fostered team spirit, encouraged collaboration among students, and offered a lighthearted way to reinforce the values of participation, fairness, and community engagement.

The impact of the tour was both immediate and lasting. Over 400 students actively participated on each day , with sustainability-themed photographs uploaded during the event. Nearly all participants pledged to adopt eco-friendly practices in their daily routines. The library posters, in particular, received special appreciation for making sustainability messaging both visually appealing and academically relevant, turning the library into not just a space of knowledge, but also of environmental awareness.

In conclusion, the Campus Tour of Induction 2025 successfully oriented students not just to the university’s infrastructure but to its values. By highlighting spaces like the library, and green zones, and by making sustainability fun through creative posters and interactive activities, the tour helped freshers recognize that they are part of a campus community where environmental consciousness is a shared responsibility.



Ms. Poonam Nanda with students for Poster Presentation

SDG 12: Responsible Consumption and Production

SDG 12 promotes the efficient use of natural resources, responsible consumption, waste reduction, and sustainable production practices. Shoolini University seeks to advance these principles through its institutional sustainability framework, relevant environmental policies, and campus-level initiatives. The University's efforts focus on resource efficiency, responsible procurement, waste segregation and recycling, and the adoption of practices that support a circular economy. Through initiatives coordinated by the Centre of Excellence in Energy Science and Technology (CEEST) and the Sustainability Cell, the University works to strengthen environmental responsibility and encourage sustainable practices among students, faculty, staff, and other stakeholders. These initiatives contribute to the University's broader sustainability objectives and alignment with the UN 2030 Agenda.

Policy on Ethical Sourcing of Food and Supplies

Shoolini University's Policy on Ethical Sourcing of Food and Supplies (2023) promotes responsible procurement by emphasising food safety, traceability, and compliance with applicable regulations. The policy requires food suppliers to comply with Food Safety and Standards Authority of India (FSSAI) requirements and relevant food safety regulations. It also addresses ethical sourcing practices, including concerns related to child labour, unsafe working conditions, and environmentally harmful practices. Food quality is monitored through traceability measures and testing by certified food-testing laboratories. These provisions support responsible procurement, food safety, and sustainable consumption in alignment with SDG 12: Responsible Consumption and Production.

Hazardous and Biomedical Waste Disposal Policy

Shoolini University's Hazardous and Biomedical Waste Disposal Policy (2023) establishes procedures for the safe management of hazardous and biomedical waste generated in laboratories and the Health Centre. Waste is segregated, labelled, and stored appropriately before being transferred to authorised waste-management agencies for disposal in accordance with applicable regulations, including the Biomedical Waste Management Rules, 2016. The University collaborates with Enviro Engineers Pvt. Ltd., identified as an authorised service provider by the Himachal Pradesh State Pollution Control Board, for the collection and disposal of biomedical waste at the Sandli Biomedical Waste Treatment Plant. Faculty oversight and colour-coded segregation support safe handling, minimise the risk of environmental contamination, and promote responsible waste management.

Sustainable Waste Collection and Segregation Practices

Shoolini University employs handcrafted bamboo and wooden kiltas (traditional collection baskets) at designated campus locations to facilitate waste collection and subsequent transfer for segregation and recycling. These baskets provide an alternative to conventional plastic collection containers by using natural materials and supporting traditional craftsmanship. In addition, specially designated dustbins are provided in laboratories and the Health Centre for the segregation of biomedical and hazardous waste. The bins are labelled and colour-coded to facilitate the appropriate separation of different waste categories. Collected biomedical waste is transferred to authorised waste-management agencies for handling and disposal in accordance with prescribed safety and environmental requirements. These practices support responsible resource use, waste segregation, and pollution prevention, contributing to the objectives of SDG 12: Responsible Consumption and Production.

Reusable Water Bottles

Shoolini University promotes the use of reusable, wood-finished stainless-steel water bottles as an alternative to single-use plastic bottles. These bottles support waste reduction by encouraging repeated use and reducing dependence on disposable beverage containers in daily campus activities.



Reusable wood-finished stainless-steel water bottles used at Shoolini University

Reusable Carry Bags

Shoolini University promotes jute and cloth-based carry bags as sustainable alternatives to conventional plastic bags. These reusable bags help reduce plastic consumption and encourage environmentally responsible practices among the university community.



Reusable jute and cloth-based carry bags

Paper-Based Packaging

University uses paper bags for packaging and carrying small items as an alternative to plastic packaging materials. This initiative supports the reduction of unnecessary plastic use and encourages the adoption of alternative packaging materials in routine activities.



Paper bags for packaging and carrying small items

Eco-Friendly Pens

The University uses cardboard-bodied pens as alternatives to conventional plastic pens. This initiative encourages the use of alternative materials in stationery and supports efforts to reduce reliance on plastic-based products in academic and administrative activities.



Eco-friendly cardboard-based pen

Bamboo Waste Baskets:

Shoolini University uses bamboo kiltas as alternatives to conventional plastic dustbins. By incorporating these natural-material alternatives into campus waste management, the University promotes sustainable material choices and supports its broader efforts to reduce plastic use.



Bamboo Kiltas inside the campus

Minimisation of Disposable Items at Shoolini University

Shoolini University promotes the minimisation of disposable items by encouraging reusable products and environmentally preferable alternatives across campus facilities. Initiatives include replacing single-use plastic cutlery with wooden alternatives where appropriate, using reusable plates and crockery in dining areas, promoting reusable water bottles and cloth or jute carry bags, and reducing unnecessary packaging. These measures aim to minimise disposable waste, reduce dependence on single-use plastics, and promote responsible consumption practices across the University. Shoolini University can include the following initiatives:

Use of Reusable Plates and Crockery

Shoolini University promotes the use of reusable plates, cups, bowls, and stainless-steel cutlery in dining facilities in hostel mess and campus events (Ceramic crockery plates). These items can be washed and reused, reducing dependence on single-use disposable serving products. This initiative supports waste minimisation and responsible consumption.



Reusable stainless-steel plates, trays, and cutlery

Wooden Cutlery Alternatives

The University promotes recycled wooden spoons plates and forks as alternatives to single-use plastic cutlery in campus cafeterias. These alternatives help reduce reliance on conventional plastic serving items. Their use can contribute to minimising plastic waste generated during food service and campus events.



University promotes wooden spoons and forks in cafeterias

Waste tracking

Shoolini University considers waste management an integral part of its sustainability initiatives. During the year 2025, the **University tracked and measured waste generated across the campus** to support responsible resource management, improve waste-handling practices, and identify opportunities for waste reduction.

The University maintains formal arrangements for waste collection and disposal through separate agreements for biomedical waste and general campus garbage. Shoolini has signed an agreement with **Enviro Engineers;** responsible for the collection, transportation and authorised disposal of biomedical waste, while a separate **agreement (*Sh. Pawan Kumar son of Sh. Devinder Kumar*)** governs routine campus garbage collection. These arrangements support systematic waste handling and provide a framework for monitoring waste collection and disposal.

Evidence:

Waste Collection details:

Parameter	Units	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Total
Solid waste generation	Kgs	890	805	680	815	880	1165	665	830	1395	2375	1785	1918	**14,203**
Food waste Generation	Kgs	3900	8300	12706	9692	7480	1993	2868	9074	8964	9135	12880	8466	**95,458**
e-Wastage														**759 Kgs**

Additional Environmental Resource Consumption and Generation Parameters:

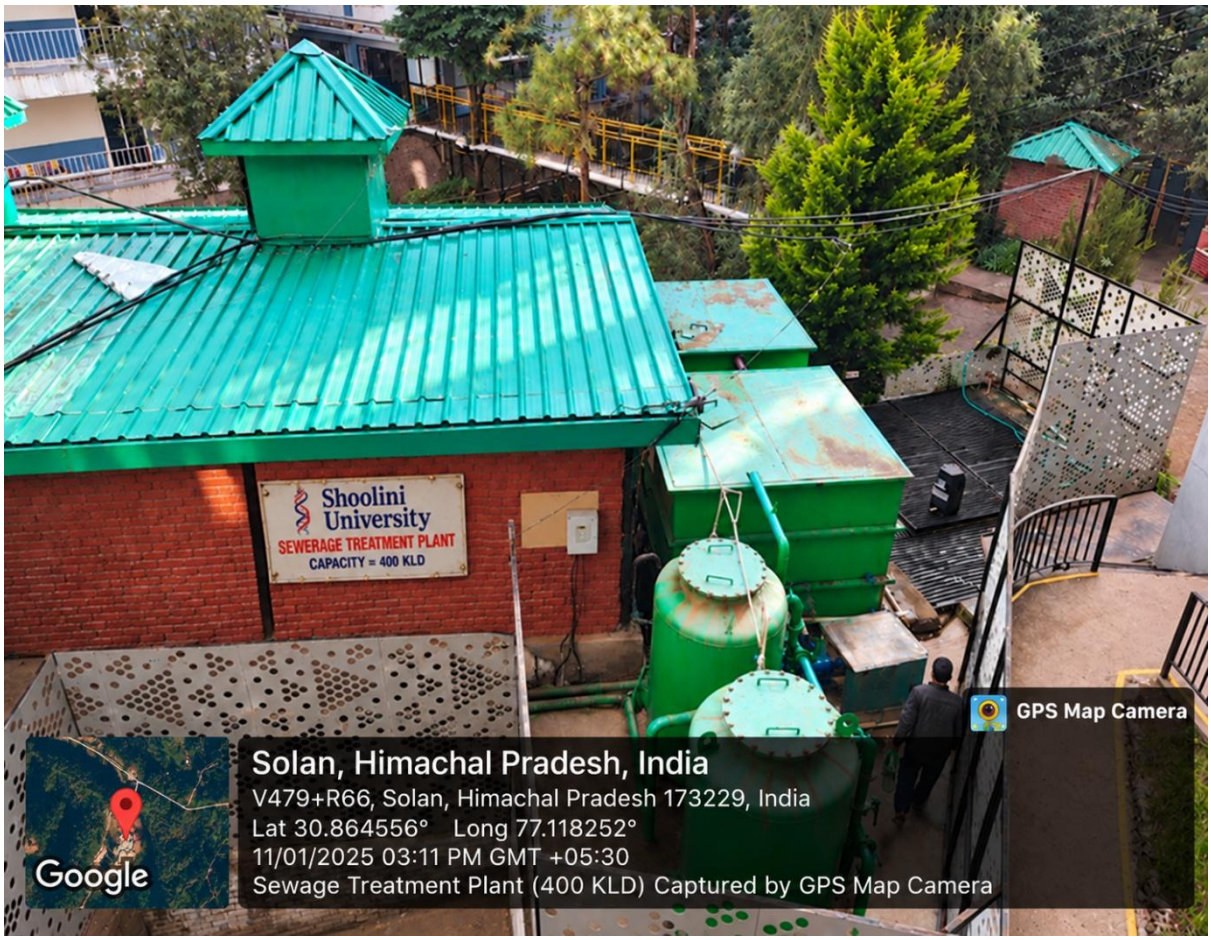
In addition to monitoring solid waste, Shoolini University systematically tracks wastewater recycling and sewage treatment plant (STP) sludge as part of its campus waste and resource management practices. During the year 2025, the University recycled **75,881,195 litres of wastewater**, against a total **104,306,150 litres consumed**, representing a calculated **wastewater recycling ratio of 72.75%.** The University also recorded 2,281 kg of STP sludge during the reporting period. Monthly records indicate variations in wastewater generation and sludge production throughout the year, reflecting changes in wastewater flows and treatment operations. Systematic monitoring of these parameters supports the assessment of treatment performance, identification of resource-efficiency opportunities, and continuous improvement in sustainable campus management.

Wastewater Treatment and Recycling

Shoolini University treats wastewater generated across the campus through its Sewage Treatment Plant (STP) and recycles the treated water for various non-potable requirements. This approach reduces dependence on freshwater and supports efficient water-resource management.

- Horticulture: Treated wastewater is reused for campus gardening and horticultural activities.
- Landscaping: Recycled water supports the maintenance of campus green areas.
- Flushing: Treated water is reused for toilet flushing.

- Other non-potable uses: Recycled water is utilised for suitable campus applications where potable water is not required.
- Water conservation: Recycling reduces freshwater demand and promotes sustainable resource utilisation.



Sewage Treatment Plant having 400 KLD capacity

Awareness Activity

Eco-Innovation at Moksh: A Showcase of Sustainable Living

SDG 11: Sustainable Cities and Communities, SDG 12: Responsible Consumption and Production & SDG 13: Climate Action

Date: March 28 to 30, 2025

Venue: Badminton Court

From **March 28th to 30th, 2025**, Shoolini University's annual fest, **Moksh**, featured a dedicated **Sustainability Stall** located at the **Badminton Court**. This special corner was designed to promote awareness about sustainable living, showcasing eco-friendly practices, and encouraging individuals to make environmentally responsible choices. The stall was

entirely built using **handmade materials**, reflecting the university's commitment to sustainability.

The Sustainability Stall featured a variety of exhibits and activities that emphasized the importance of sustainable living in today's world. The materials used to set up the stall were entirely **handcrafted**, and sourced from recycled or natural resources, ensuring that the stall itself was a demonstration of sustainability. From **upcycled furniture** to **handmade decorations**, every element of the stall showcased creativity and innovation while promoting eco-friendly alternatives to conventional practices.

The stall included interactive displays, such as **DIY workshops**, where visitors could learn how to create their own sustainable products, like reusable bags, biodegradable items, and natural cleaning solutions. Additionally, there were **informational boards** that provided tips on how to reduce carbon footprints, conserve resources, and adopt a sustainable lifestyle.

Throughout the event, the Sustainability Stall engaged visitors in discussions about the impact of everyday choices on the environment and the importance of **reducing waste**, **recycling**, and **reusing materials**. By featuring handmade, eco-friendly products, the stall encouraged attendees to explore alternatives to single-use plastics and disposable items, thereby inspiring them to take small yet impactful steps toward sustainability.

Visitors were also introduced to various **local sustainable brands** and **initiatives** that focus on creating a greener future, offering an opportunity to connect with people who share the same passion for environmental consciousness.

The **Sustainability Stalls** at Moksh weren’t just about showcasing eco-friendly products—it was a **symbol of the university’s commitment** to making sustainability an integral part of campus life. By organizing this corner, Shoolini University provided a platform for students to actively engage in sustainability efforts and learn more about living in harmony with the environment. This stall was a perfect example of how sustainability can be creatively incorporated into university events, leaving a lasting impact on students, staff, and visitors. It reminded everyone that each small effort counts, and by coming together, we can make a significant difference in protecting the planet for future generations.





Artistically decorated waste collection bins featuring creative nature-inspired designs



Volunteers with their local sustainable brands stalls



Imtiaz Ali watching eco-friendly products

SDG 13 Climate Action

Shoolini University continues to make efforts to contribute towards SDG-13 to combat global climate change. The University conducts research as well as many programmes and campaigns to contribute towards SDG-13 and has also prepared a well-researched National Document on the Implementation of United Nations Sustainable Development Goals (UNSDGs) in Higher Education Institutions in collaboration with Association of Indian Universities (AIU). As per the UN SDG-13 the main task is to take urgent action to combat Climate change and its impacts. The climate change has resulted in warmest decade, forest fires, droughts, floods, changed weather patterns, droughts, floods, changing sea levels and a number of other climate disasters affecting agriculture, food security, economy and lives of people all over the world. Thus, there is need for higher education institutions (HEIs) to combat the climate change by creating awareness, imparting education, action-oriented research and policy initiatives. In this context, Shoolini University has taken a number of steps to combat climate change and its impact by a number of measures like utilising renewable energy sources, reduction in the use of fossil fuels in transportation, community cooking, agriculture practices in developing appropriate drought resistant plant varieties.

Education

The global thrust for climate change mitigation calls for all organizations and higher education institutions to take immediate measures to lower their carbon footprint. Shoolini University has established a Centre of Excellence in Energy Science & Technology (CEEST) in 2019 which is led by Prof. Shyam Singh Chandel who comes under the global top 2% scientists according to research conducted by Stanford University.

Research in Energy, FWCI metrics related to SDG-7 of Shoolini University:

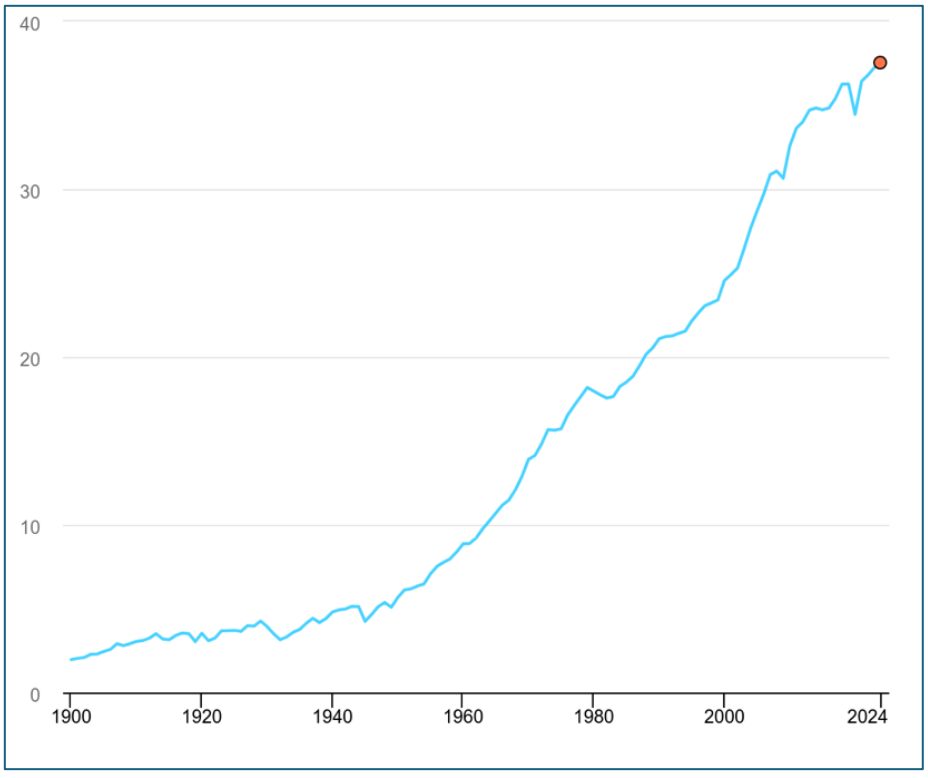
Table: Field-Weighted Citation Impact of Shoolini University for SDG-13 for year 2025 as per SciVal Database

Name	Scholarly Output	Field-Weighted Citation Impact	Citation Count
SDG 7: Affordable and Clean Energy (2025)	102	1.77	1563
SDG 13: Climate Action (2025)	54	2.57	1060

Already a governing 'Energy and Environment Policy' has been formulated in 2019 to set the roadmap and required actions to make the University carbon neutral by 2030. The scientists are working in priority research areas on Climate change in Energy, especially use of renewable energy applications in Agriculture, Sciences, Engineering, Biotechnology, Food technology and Pharmacy. The main objective of these initiatives is to develop the University as a sustainable education and research hub and township to be model for the higher education Institutions in India.

Combating Climate Change Impact

According to International Energy Agency, the total energy-related CO2 emissions increased by 0.8% in 2024, hitting an all-time high of 37.8 Gt CO2 (figure-1). This rise contributed to record atmospheric CO2 concentrations of 422.5 ppm in 2024, around 3 ppm higher than 2023 and 50% higher than pre-industrial levels. Climate funding fell short by USD 100 billion, indicating that not enough action is being taken in-spite-of commitment towards the same. It is estimated that over 700 million people will be displaced by 2030 due to droughts and sea levels are expected to rise 30-60 cm by 2100. The United Nations Sustainable Development Goal - 13 aims to combat climate change and urges a global effort to take urgent action to lower the environmental impact and switch to sustainable technologies and practices.



Global CO_2 emissions in Gt CO2 from 1900 till 2024

Shoolini University has been one of the early movers in adoption and implementation of SDGs in campus and had created the Energy and Environment policy in 2019 and set targets to be fully carbon neutral by 2030 through various measures like use of photovoltaic power, biogas, sustainable building materials, use of passive solar architecture, waste recycling, waste water recycling and purification, waste to energy, tree plantation in the campus, protecting adjoining Cir Pine forest from forest fires thus protecting the environment. Several measures have already been undertaken by the university which are highlighted in this report.

Towards Carbon Neutral Sustainable Campus through Mandatory Energy and Environment Policies

The Energy and Environment Policies align Shoolini University to achieve carbon neutral sustainable Campus and main highlights of the policy are as follows:

Action plan:

- Installation of solar PV on grid and standalone power generation system in the university premises.
- Installation of solar water heating systems in the university premises.
- Installation of Concentrated Solar Technology based community Steam Cooking Systems for Hostels to save conventional fuels and building integrated cooking system.
- Installation of Solar Street lights for saving conventional electricity in the university campus.
- Installation of Bio-gas plants to generate power from the bio-residues like kitchen waste, cow dung or other wastes generated in the campus premises. Focus will be given to implementation of Biomass Gasification, Pyrolysis in the campus.
- Installation all energy efficient electrical or electronic devices/equipment/masonries in other to save energy in the campus.
- Measures to reduce vehicular pollution in the Campus. Restriction of heavy vehicles inside the campus during day time. For night movement of heavy vehicles necessary permission required from the competent authority.
- Promotion of shared Cab/Taxi and personal cars during office hours. Encourages faculty and students to use public transport.
- Promotion of electric vehicles/Carts in the university campus or not allowed to buy 1200 CC above cars for official uses.

- Initiation of regular annual tree plantation during ***Van Mahotsav*** (Forest Festival) in the campus and surrounding areas for CO2 emission reduction.
- Installation of bamboo based and regular waste collection dustbins instead of plastic dustbins in the university campus. This generates income to local bamboo basket makers artisans also.
- Implementation of waste recycling and waste treatment plant in the campus.

Other policies related to sustainability: Several other policies have been drafted to guide the university's sustainability initiatives which are listed as follows:

- Divestment Policy
- Sustainable Procurement Policy
- Sustainable Investment Policy
- Hazardous Wastes Disposal Policy
- Minimized use of Plastics Policy
- Policy on Ethical Sourcing of Food and Supplies
- Waste Disposal to Landfills and Recycling Policy
- E-Waste Policy

Lowering GHG Emissions by Solar Energy Production and Consumption

Under its Energy policy, Shoolini university has installed a 400 kWp rooftop photovoltaic power plant in the campus to partially meet its energy requirements. As an follow up, all the new buildings are planned to be constructed as energy efficient and solar PV grid integrated plants are planned. The electrical energy used by the university was 19,31,579 kWh or 6,954 GJ and that generated by solar PV plant was 3,61,577 kWh or 1,302 GJ for 2025.

New projects to lower dependence on conventional electricity supply are being planned.



400 kWp PV power plant installed in the university

Designing and constructing Low carbon footprint buildings-use of environment friendly Building materials

Under the mandatory Net Zero Energy and Passive Solar housing Policy, the university has developed a Yogananda Ville with a number of solar huts in the campus using sustainable building materials like wood, bamboo, slate, stone, mud, stabilized mud blocks etc. shown in the following figures



Wooden huts in campus



Use of Traditional and Climate responsive Building Materials

Climate Responsive - Green Campus with Vegetation Coverage

The university has ensured that adequate area is kept under trees, plants, and flowery plantation cover for an environment friendly green campus. As a measure of maintaining a clean and green campus separate dustbins for biodegradable and non-biodegradable wastes have been fixed in every part of the university campus. The University has been declared as “zero single use plastic” campus as per the policy initiative taken in 2021.



Green Campus of various academic blocks of Shoolini University with visible tree plantations

Reducing Carbon emissions and fossil fuel consumption for transportation in the campus -Electric carts

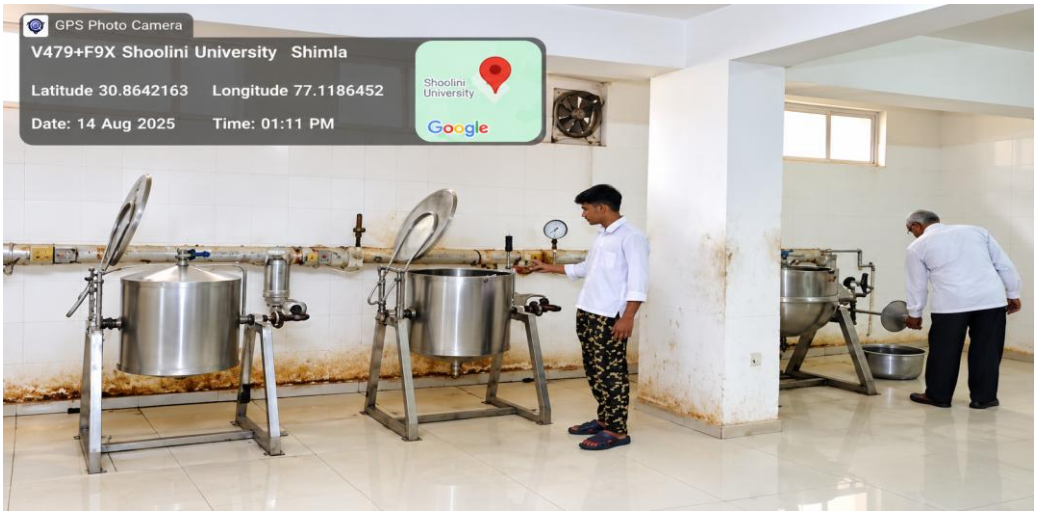
Shoolini University has significantly reduced its dependence on fossil fuels by introducing electric carts for intra-campus transportation. These eco-friendly vehicles provide safe, quiet, and emission-free mobility for students, faculty, staff, and visitors across the hilly terrain of the campus. By replacing conventional petrol or diesel-based vehicles with battery-operated electric carts, the University has effectively minimized carbon dioxide emissions and promoted sustainable mobility practices. The initiative not only supports the University's goal of achieving Net Zero Emissions by 2028 but also enhances accessibility while maintaining a clean and healthy environment. The electric carts are charged using renewable solar power generated on campus, further aligning the transportation system with Shoolini's commitment to green energy and low-carbon operations. Through this transition, the University continues to demonstrate leadership in integrating clean transportation technologies within higher education institutions, setting a benchmark for environmentally conscious campus management.

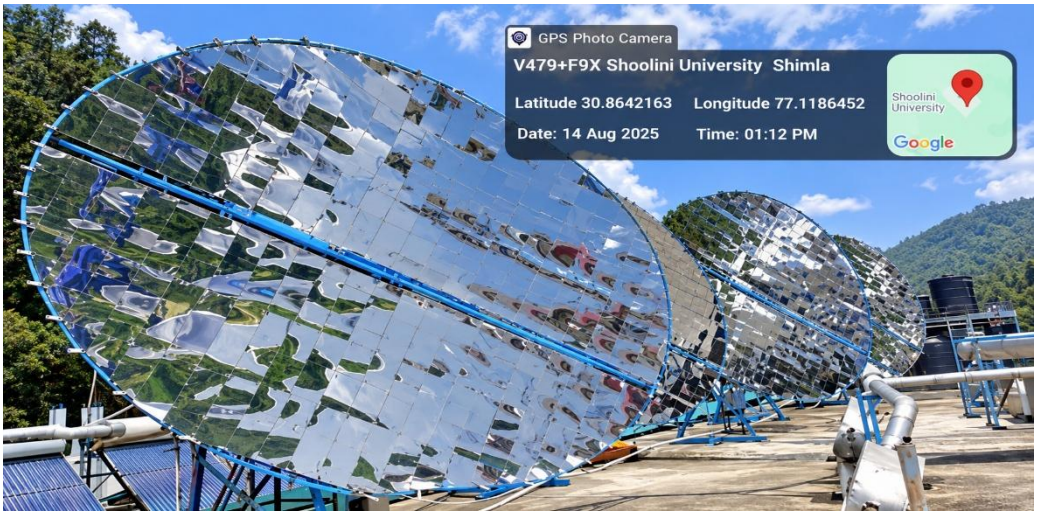


Electric vehicles used for transport within the university campus to reduce carbon emissions

Non-polluting biogas and solar thermal cooking system: An alternative to LPG

As a step from divestment from use of liquid petroleum gas (LPG) for cooking the university has installed a solar thermal cooking system that provides for cooking food for 500 students. Also, a 1.5 m3 biogas plant is installed in the agricultural farm in the university that is used for cooking food by the employees working in the farm.





Concentrated solar powered community steam cooking system

Solar water heating systems for hostels

Solar flat-plate collectors and evacuated tube collectors are installed in all University hostels to provide hot water daily for hostel residents. By harnessing solar energy for water heating, these systems reduce dependence on conventional energy sources and help lower greenhouse gas emissions associated with energy consumption. This initiative contributes to climate change mitigation by promoting renewable energy use and reducing the University's carbon footprint, supporting SDG 13: Climate Action.



Water heating solar in roof top of Aryabhata hostel



Solar Pannel at rooftop of New Boys Hostel

Bio-energy utilization - Use of biogas for Cooking from agriculture and Animal Wastes

In order to utilize agriculture, cow dung, food waste and kitchen waste, and promote the research and use of biogas as the fuel, the CEEST has installed a 1.5 m3 Plastic biogas system

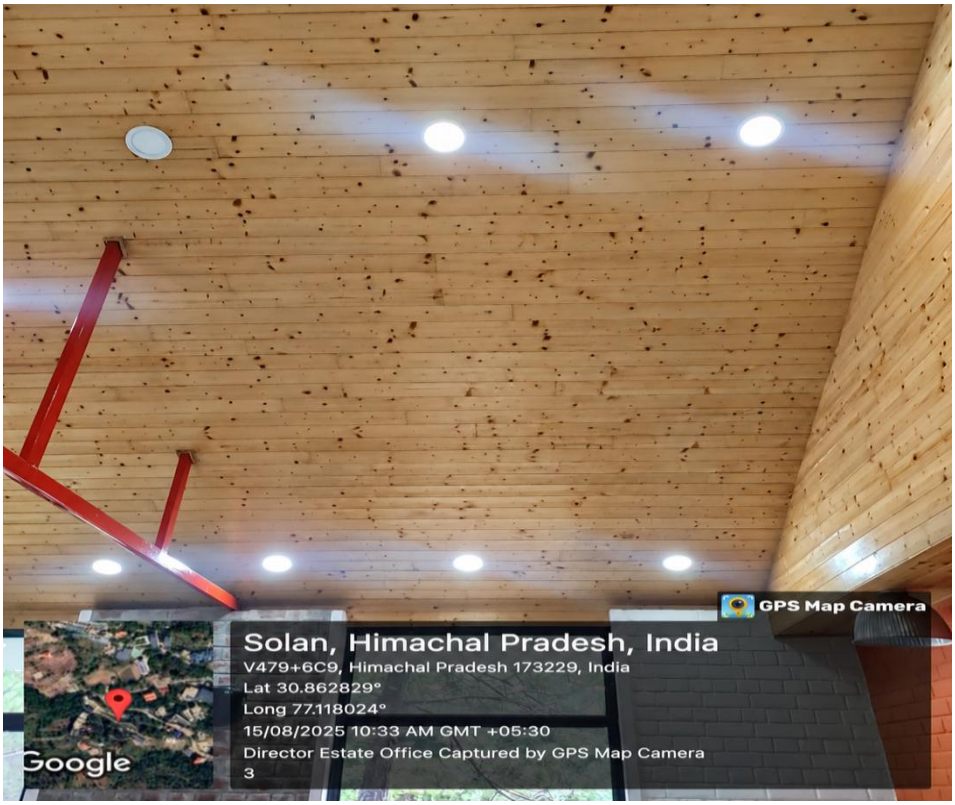
for demonstrating use of non-polluting fuel in the agricultural farm of the University which is being used for cooking by the farm laborers.



Biogas plant for cooking installed in agriculture farm in Shoolini university

Reducing conventional electricity consumption by installing solar streetlights and LED lights in the campus

Shoolini University promotes energy efficiency and climate change mitigation by installing solar streetlights throughout the campus and replacing conventional lighting with energy-efficient LED lights. Approximately 95% of the University's lights have been replaced with LED lighting, reducing electricity consumption and improving energy efficiency. Solar streetlights further support the use of clean energy and reduce dependence on conventional electricity. These initiatives help lower energy-related greenhouse gas emissions and contribute to SDG 13: Climate Action by promoting sustainable energy practices and reducing the University's carbon footprint.



Use of energy efficient LED lights inside the university buildings

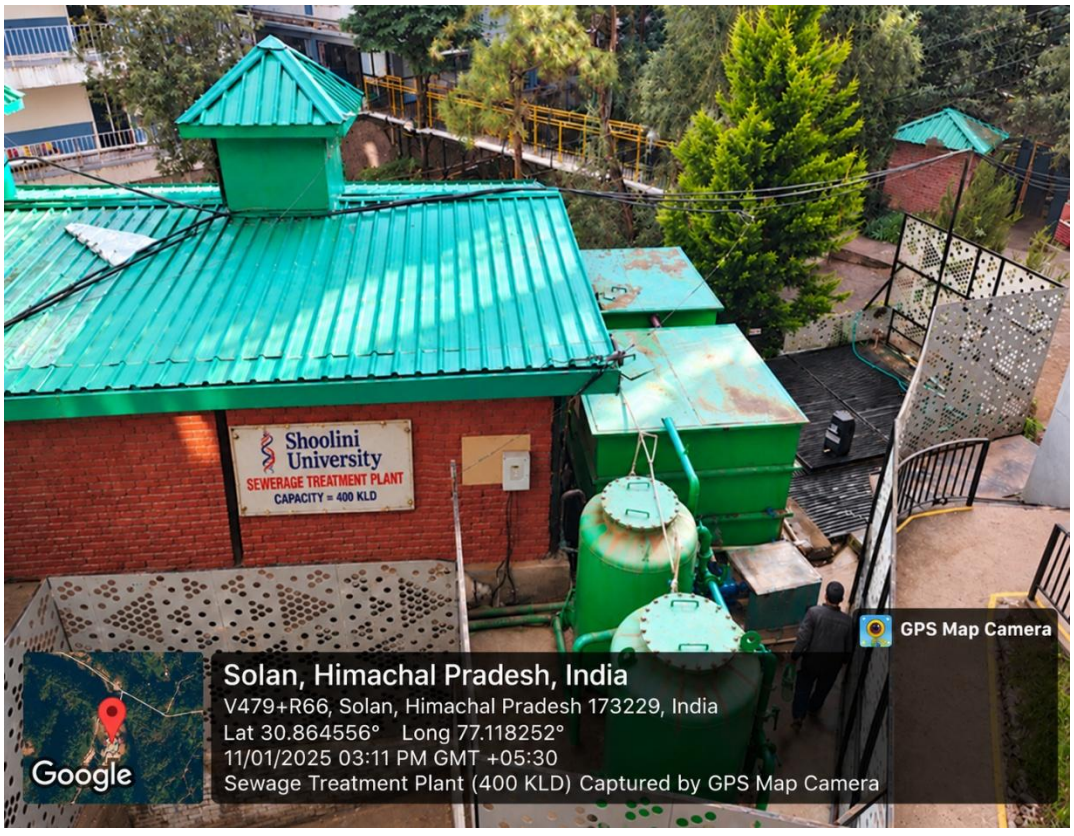


Utilizing clean Solar energy -Solar streetlights

Wastewater treatment

Shoolini University has strengthened its commitment to responsible wastewater management and environmental sustainability through its **upgraded Sewage Treatment Plant (STP)**. The University is dedicated to the effective treatment of wastewater and the maximum reuse of treated water for suitable non-potable purposes, thereby promoting water conservation and resource efficiency.

The University operates a Sewage Treatment Plant (STP) with a treatment capacity of **400 Kilolitres per Day (KLD)**. In addition, an **Effluent Treatment Plant (ETP) with a capacity of approximately 50 KLD** is used, where required, for the treatment of laboratory effluents before their integration into the main wastewater treatment stream. The University's treatment system combines biological treatment processes with **activated carbon-based treatment technologies** to achieve **effective purification of wastewater**. The treated water is subsequently reused for various non-potable applications, thereby reducing the demand for freshwater and supporting the University's commitment to sustainable water management



400 KLD Sewage Treatment Plant

Conferences and Events

Report on the International Conference on Applied Artificial Intelligence and Innovation (AAIIC 2025)

Organising Institution: Yogananda School of AI, Computers, and Data Science (YSAICDS), Shoolini University, Solan, Himachal Pradesh, India
Date: 11–12 July 2025
Duration: Two Days International Conference
Participants: Academicians, researchers, faculty members, students, and industry professionals
Conference Theme: Applied Artificial Intelligence and Innovation

Introduction

The Yogananda School of AI, Computers, and Data Science (YSAICDS) at Shoolini University organised the **International Conference on Applied Artificial Intelligence and Innovation (AAIIC 2025)**, a two-day academic and research event bringing together experts, researchers, academicians, and industry professionals to discuss emerging developments and practical applications of artificial intelligence (AI).

The conference provided a platform for knowledge-sharing, interdisciplinary research, international academic interaction, and industry engagement. Various academic and industry fields participated in the event, contributing to discussions on the growing role of AI in education, energy, ethics, intelligent systems, automation, manufacturing, and enterprise solutions.

Inaugural Session and Key Addresses

The conference commenced with a welcome address by Assistant Professor Piyush Sewal, followed by inaugural remarks from Prof. Virender Rihani, Dean, Faculty of Engineering. Prof. Rihani highlighted the increasing relevance of artificial intelligence across academic and industrial sectors and emphasised the importance of focused discussions and knowledge-sharing.

In his keynote address, Prof. P. K. Khosla, Chancellor of Shoolini University and Chief Patron of AAIIC 2025, emphasised that AI is transforming industries worldwide. He highlighted the role of international conferences in creating platforms for collaboration, innovation, and problem-solving.

Prof. Atul Khosla, Vice Chancellor of Shoolini University, discussed the university's commitment to interdisciplinary AI research and the development of AI-driven solutions addressing national and global needs.

Prof. Ashish Khosla, President and Chief Innovation & Marketing Officer at Shoolini University and Patron of AAIIC 2025, highlighted the importance of creating collaborative environments where researchers, industry experts, and students can jointly develop impactful AI applications.

International Academic Participation

The conference featured international speakers who shared research insights and expertise in emerging AI technologies and their practical applications. Speakers included:

- **Sanjay Misra** – Universidad de Alcalá, as listed in the conference announcement.
- **Shailendra Rathore** – Abertay University, United Kingdom.
- **Yerzhan Kerimbekov** – Zhanibekov University, Kazakhstan.
- **Laura Baitokayeva** – Nazarbayev Intellectual School, Kazakhstan.
- **Tomáš Čech** – Palacký University, Czech Republic.

The conference also involved Prof. Manju Khari of Jawaharlal Nehru University and Prof. K. K. Patel of Charotar University of Science and Technology as Conference Theme Chairs. They emphasised the importance of collective learning, teamwork, and research collaboration in advancing the field of artificial intelligence.

The participation of speakers from different institutions and countries strengthened the conference's international academic character and provided opportunities for exchanging research knowledge and perspectives.

Industry Participation and Practical Applications

An important component of AAIIC 2025 was the involvement of industry professionals. Senior professionals from Tata Consultancy Services (TCS), Apoorv Aggarwal and Rajit Sikka, shared insights into the practical application of AI across automation, manufacturing, and enterprise solutions.

Their sessions highlighted how businesses are integrating AI technologies into operational processes, developing intelligent systems, and improving the application of digital technologies in industrial environments.

This academic–industry interaction helped connect theoretical research with practical requirements and demonstrated the value of cooperation between universities and industry in technological innovation.

Major Themes and Areas of Discussion

The conference explored a range of themes related to the development and application of AI, including:

Artificial Intelligence in Energy: Examination of AI applications in energy-related systems and technological innovation.

AI in Education: Discussion of emerging AI applications that can support educational practices, research, and learning processes.

Ethics and Responsible AI: Consideration of ethical questions and the responsible development and application of artificial intelligence.

Intelligent Systems: Exploration of emerging research and applications in intelligent computing and AI-driven systems.

AI in Industry: Discussion of applications in automation, manufacturing, enterprise systems, and industrial operations.

These themes encouraged interdisciplinary dialogue and highlighted the potential of artificial intelligence to address challenges across academic, industrial, and societal contexts.

Relevance to Sustainable Development Goals

SDG 7: Affordable and Clean Energy

The conference included discussions on AI in energy, providing a thematic connection with **SDG 7 – Affordable and Clean Energy**. AI technologies have potential applications in energy-system optimisation, energy-demand analysis, operational efficiency, and the integration of emerging energy technologies.

The conference's energy-related discussions therefore offered a platform for exploring the role of AI in energy innovation. However, any claim that specific renewable-energy or energy-efficiency outcomes were achieved would require additional evidence from the conference programme, presentation materials, or proceedings.

SDG 13: Climate Action

Artificial intelligence can contribute to climate-related research through environmental data analysis, climate modelling, monitoring systems, and the development of technology-based approaches to environmental challenges.

AAIIC 2025 promoted discussion and collaboration around applied AI and innovation, creating a potential connection with technology-driven approaches to sustainability. Nevertheless, the available conference description does not establish a dedicated climate-action session or a measured climate impact. A direct SDG 13 claim should therefore be supported by relevant presentation titles, abstracts, or session documentation.

Coordination and Organisation

The conference was coordinated by Prof. Pankaj Vaidya and Associate Professor Gaurav Gupta, who played central roles in conceptualising and organising the event.

The involvement of the organising team, institutional leadership, international speakers, academic participants, and industry professionals helped establish a platform for dialogue, collaboration, and innovation. The event also reinforced Shoolini University's efforts to advance applied AI research and interdisciplinary learning.

Outcomes and Significance

The conference brought together 72 participants from academic and industry fields and provided opportunities to:

6. Exchange research knowledge and perspectives on emerging artificial intelligence technologies.
7. Encourage international academic interaction and interdisciplinary collaboration.
8. Connect academic research with industry applications in automation, manufacturing, and enterprise solutions.
9. Explore AI applications across energy, education, ethics, and intelligent systems.
10. Highlight opportunities for collaboration between researchers, students, and industry professionals.

The conference strengthened dialogue on applied AI and innovation while providing a platform to examine the wider implications of emerging technologies.



AAIIC 2025, academia and industry experts

Outreach Awareness Activities

Clean Trails, Clear Minds: Healing Himalayas Drive to Jakhu Temple

SDG 13 Climate Action

Shoolini University | Event report 2025

SDG 13 : Climate Action & SDG 17 : Partnerships for the Goals

Date: 6 th February 2025

Shoolini University, in collaboration with the Healing Himalayas Foundation, organized a powerful cleanliness drive to the revered Jakhu Temple in Shimla, reinforcing the values of sustainability, environmental stewardship, and community service. The initiative brought together passionate student volunteers and faculty members committed to preserving the natural beauty and sanctity of the Himalayas.

The day began with an early morning departure, filled with enthusiasm and a shared mission. Upon reaching Jakhu , the team conducted a thorough cleanliness campaign along the temple path and surrounding forest area—collecting plastic waste, discarded items, and educating locals and tourists on the importance of responsible tourism.

Volunteers carried placards and chanted slogans urging visitors to “Leave Only Footprints” and “Keep the Himalayas Green.” The drive wasn’t just about picking up litter—it was a hands-on lesson in climate responsibility and sustainable living. The collected waste was later segregated, and efforts were made to recycle where possible.

This impactful initiative not only cleaned a sacred space but also ignited a deeper connection with nature among the participants. The experience served as a reminder that true devotion includes caring for the land that nourishes our spirit. The drive embodied Shoolini’s mission to educate change-makers who lead with purpose and protect the planet .



Faculty and students during clean drive with Healing Himalayas

Roots of Change: Shoolini's Plantation and Cleaning Drive

SDG 13 Climate Action

Shoolini University | Event report 2025

SDG 13 – Climate Action | SDG 15 – Life on Land | SDG 11 – Sustainable Cities and Communities

Date: 2nd October 2025 Venue: Surrounding Areas of Shoolini University Campus

As part of Daan Utsav 2025 , a week dedicated to the spirit of giving and service, NSS , NCC , and SFY (Shoolinians for You) at Shoolini University organized a vibrant Plantation and Cleaning Drive titled "Roots of Change." The initiative embodied the values of care, compassion, and responsibility — reminding everyone that giving back to the Earth is one of the purest forms of contribution.

The day began with a tree plantation activity , where volunteers planted a diverse range of saplings around the campus and nearby areas. Each plant symbolized growth, hope, and the university's vision for a greener tomorrow. Students pledged to nurture these saplings, ensuring that their act of giving would continue to flourish for years to come. The plantation drive reflected Shoolini's long-term commitment to sustainability and environmental protection, while also fostering a sense of ownership among participants.

Following the plantation, volunteers actively participated in a cleaning drive , covering the roads and surroundings of the university. With gloves, eco-bags, and an unbreakable spirit, the teams collected plastic waste, cleaned pathways, and segregated recyclable materials. The coordinated efforts of NSS volunteers, NCC cadets, and SFY members made the drive efficient and impactful.

The event served as a living example of how collective action can lead to visible change. By combining plantation and cleanliness initiatives, the drive not only enhanced the aesthetic appeal of the campus but also strengthened awareness about sustainable living and responsible waste management.

Through this initiative, Shoolini University once again showcased its commitment to community service, environmental stewardship, and student engagement. The "Roots of Change" drive beautifully captured the essence of Daan Utsav — giving back selflessly, working together for a cleaner and greener future, and planting seeds of hope that will continue to grow with time.

No. of Volunteers: 170







Volunteers' participation on plantation