Swami Rama Himalayan University

NAAC A+

Report on

Sustainable Development Goal 2



ZERO HUNGER 2025

SDG 2: Zero Hunger

Swami Rama Himalayan University (SRHU) advances SDG 2, Zero Hunger, through initiatives that address student & community hunger & food insecurity through nutrition support, food waste reduction, and community engagement. The University has produced 72 SDG 2-aligned publications, including 55 during 2021-2025, covering food science, sustainable agriculture, bio fortification, crop productivity, and malnutrition. Under its Policy for Reducing Food Wastage, the University monitors food waste and processes biodegradable waste into biogas and compost. In 2024-25, 49.25 tons of food waste were processed. Student-focused initiatives include clinical dietetic services, nutritional counselling, affordable and hygienic vegetarian and vegan food options, and nutrition awareness programmes. The University does not currently offer programmes in agriculture or aquaculture. Through its Comprehensive Community Development Programme, SRHU supports local farmers with agricultural training, climate-resilient crop cultivation, post-harvest processing, and access to seeds and saplings. Its direct buy-back model supports local farmers by purchasing their produce at fair market prices. A TB Elimination initiative distributed nutrition kits to TB patients to support their nutritional needs. The University also promotes maternal nutrition by distributing millet-based nutritional products to pregnant and lactating women.

2.1 Research

SRHU has a cumulative total of 72 publications aligned with SDG 2. During the most recent five-year period (2021-2025), 55 publications were identified as contributing to SDG 2, representing 76.4% of the university's total SDG 2 research output. Of these, 22 publications were published in 2025, accounting for 40% of the five-year output. The 2025 contribution, "Process optimisation for the extraction of Shorea robusta (Sal) seed oil using response surface methodology and its characterisation: A sustainable approach to oil valorisation," develops and characterises a sustainable extraction method for Sal seed oil using response surface methodology, and provides a relevant connection to SDG 2 through themes of underutilised food-resource valorisation, sustainable food processing, and nutritional security.

Research Metric	Value
Total Publications during 2021-2025	55
FWCI	1.23
Citation Count	720
Total Views	1768

2.1.1 Zero Hunger: CiteScore

During the 2021-2025 reporting period, SRHU produced 55 publications aligned with SDG 2 (Zero Hunger), of which 30 reported CiteScore data, with an average of 5.28. During 2025, 11 out of 22 publications reported CiteScore data, with an average of 5.91.

List of publications with CiteScore:

S.No	Paper Title	Authors	Journal/Conference Proceedings/Book Chapters	Year	CiteScore	DOI
1	A Fusion-Driven Deep Learning Framework for Robust and Scalable Face Recognition in Biometric Systems	Tyagi, P.| Bindal, A.K.| Srivastava, D.	IC-DECON 2025 - 2025 International Conference on Data, Energy and Communication Network, Proceedings	2025	-	10.1109/DECoN67170.2025.11447814
2	Advances in Contemporary Tools for Detecting and Diagnosing Plant Pathogens	Chaudhary, A.| Chaudhary, P.| Singh, S.| Bhandari, G.| Tripathi, V.	Interdisciplinary Biotechnological Advances	2025	-	10.1007/978-981-97-7510-1_9
3	AI-Driven Indian Cuisine Recommender for Health-Conscious Foodies	Budhiraja, S.| Batra, N.| Rani, S.| Dixit, R.| Garg, A.| Tyagi, P.	2025 International Conference on Artificial Intelligence and Machine Vision, AIMV 2025	2025	-	10.1109/AIMV66517.2025.11203599
4	An Intelligent Approach to Predict Agricultural Productivity Using Artificial Neural Network Framework	Mall, S.| Sharma, V.| Srivastava, D.	Healthcare Recommender Systems: Techniques and Recent Developments	2025	-	10.1007/978-3-031-80056-6_17
5	Cloud Computing-Enabled Hybrid Machine Learning Models for Crop Yield Prediction	Chunawala, H.| Chhabra, G.| Guru, A.| Shrivastava, A.| Obbayed, S.| Yadav, L.N.	International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity, ISAC3 2025	2025	-	10.1109/ISAC364032.2025.11156391
6	Crop Disease Detection Using Convolutional Neural Network (CNN)	Baghe, P.S.| Singhal, M.| Rani, R.| Kanauzia, R.	Proceedings of 1st IEEE Uttar Pradesh Section Women in Engineering International Conference on Electrical, Electronics and Computer Engineering, UPWIECON 2025	2025	-	10.1109/UPWIECON67212.2025.11390289
7	Ecological Assessment of Nano Micronutrient Composites on Growth Dynamics and Yield Performance of Late-Sown Wheat (Triticum aestivum L.)	Jain, S.| Pathak, V.K.| Deogaonkar, A.| Vashistha, P.| Kumar, D.| Kabak, G.| Gaurav, K.| Gangola, S.| Divya| Srivastava, P.| Kumar, S.| Rawat, A.| Bhatt, P.| Khwairakpam, R.| Gupta,	Research in Ecology	2025	1.1	10.30564/re.v7i4.9640

S.No	Paper Title	Authors	Journal/Conference Proceedings/Book Chapters	Year	CiteScore	DOI
		S.| Misra, S.| Gaur, A.| Joshi, S.| Bhardwaj, R.			
8	Enhanced Tea Leaf Disease Classification Using Transfer Learning and Continuous Layer with Attention Mechanism	Rajput, G.K.| Singh, D.| Siddhi, P.| Chhabra, G.| Prajapati, S.| Brijwal, A.	Proceedings of the 2025 14th International Conference on System Modeling and Advancement in Research Trends, SMART 2025	2025	-	10.1109/SMART66937.2025.11389275
9	Enhancing the functionality of extruded snack (namkeen) using indigenous ingredients of Uttarakhand, India: A predictive modelling approach for shelf-life optimization	Kandpal, R.| Anand, S.| Choudhary, A.| Kunwar, T.| Gupta, A.K.| Kaur, R.| Jha, A.K.| Chutia, H.| Naik, B.| Kumar, V.| Makroo, H.A.| Rustagi, S.| Tavassoli, M.	Discover Food	2025	3.2	10.1007/s44187-025-00333-6
10	Exploration of compositional, functional, nutraceutical, and metabolites of Ram kandmool (Agave sisalana Perrine) for potential application in food systems	Rawat, M.| Varshney, A.| Kandpal, R.| Choudhary, A.| Gupta, A.K.| Pratiksha| Naik, B.| Kumar, V.| Kumar, A.| Kheto, A.| Bhatt, S.| Makroo, H.A.| Jha, A.K.| Rustagi, S.	International Journal of Biological Macromolecules	2025	11.4	10.1016/j.ijbiomac.2025.142095
11	Framework for Implementing Extended Reality in Agricultural Education	Ayasrah, F.T.| Verma, A.| Chaudhari, S.V.| Kumar, P.| Cengiz, K.	The Convergence of Extended Reality and Metaverse in Agriculture	2025	-	10.4018/979-8-3373-2797-6.ch002
12	Green and sustainable utilization of underutilized exudate gums from the Himalayan region: Advances in nutraceutical and pharmaceutical applications	Anand, A.| Pratiksha| Boruah, T.| Gupta, A.K.| Chutia, H.| Naik, B.| Kumar, V.	Sustainable Chemistry and Pharmacy	2025	11.6	10.1016/j.scp.2025.102160
13	Harnessing nanotechnology for sustainable agriculture: From seed priming to encapsulation	Mahra, S.| Tripathi, S.| Tiwari, K.| Sharma, S.| Mathew, S.| Kumar, V.| Sharma, S.	Plant Nano Biology	2025	11.5	10.1016/j.plana.2024.100124
14	IoT-Based Crop Health Prediction Using Hybrid CNN-LSTM Models	Dubey, R.| Rao, E.| Singh, G.| Chaudhary, N.| Singh, A.| Kler, R.	International Conference on Intelligent and Innovative Practices in Engineering and Management, IIPEM 2025	2025	-	10.1109/IIPEM65914.2025.11548437
15	Isolation and Characterization of Plant Growth Promoting Endophytes from Linum Usitatissimum	Bhandari, G.| Choudhary, S.| Deogaonkar, A.| Kumar, D.| Miglani, K.| Gupta, S.| Joshi, S.| Mittal, A.| Gangola, S.	Research in Ecology	2025	1.1	10.30564/re.v7i2.9406
16	Millet biofortification for enhanced iron content: Roadmap for combating hidden hunger	Chaudhary, R.| Sharma, C.| Kumar, V.| Rajput, V.| Naik, B.| Prasad, R.| Sharma, S.| Kumar, V.	Journal of Agriculture and Food Research	2025	9.8	10.1016/j.jafr.2025.101654
17	Process optimization for the extraction of Shorea robusta (Sal) seed oil using response surface	Thapa, D.| Kumar, V.| Naik, B.| KumarGupta, A.| Richa, R.	Food Chemistry: X	2025	10.7	10.1016/j.fochx.2025.103380

S.No	Paper Title	Authors	Journal/Conference Proceedings/Book Chapters	Year	CiteScore	DOI
	methodology and its characterization: A sustainable approach to oil valorization					
18	Revolutionizing Crop Yield Prediction with Cutting-Edge Machine Learning and Big Data Techniques	Bagla, P.| Bhatt, P.| Sharma, R.| Chhabra, G.| Manchanda, M.| Mishra, A.K.	Proceedings of the 2025 International Conference on Artificial Intelligence and Emerging Technology, Global AI Summit 2025	2025	-	10.1109/AISummit66170.2025.11411308
19	Rhizobium as a potential biofertilizer and its quality control analysis for sustainable agriculture	Bahuguna, V.| Matura, R.| Farswan, A.S.| Naqvi, S.S.| Sharma, N.| Chaudhary, M.	Journal of Applied Biology and Biotechnology	2025	3.3	10.7324/JABB.2025.197428
20	Screening for Anemia among School-going Adolescents using a Digital Hemoglobinometer in Rural Dehradun District	Yadav, S.| Negi, R.| Mishra, S.| Srivastava, A.K.	Indian Journal of Community Health	2025	0.5	10.47203/IJCH.2025.v37i05.028
21	Spectroscopy: A powerful tool for evaluating soil fertility and assessing soil health	Bhatt, P.| Pant, P.K.| Sharma, D.| Gaurav, K.| Rawat, A.| Gangola, S.| Joshi, S.| Kumar, P.	Modern Spectroscopic Techniques for Drug Discovery and Environmental Sustainability	2025	-	10.4018/979-8-3693-7473-3.ch014
22	The Silent Crisis: Malnutrition in Uttarakhand's Children	Haldar, P.| Viswanath, L.| Srivastava, A.K.| James, A.| Sati, H.C.	National Journal of Community Medicine	2025	0.8	10.55489/njcm.160720255203
23	Advanced technologies for realizing sustainable development goals: 5G, AI, big data, blockchain, and Industry 4.0 application	Bhatt, A.| Joshi, P.| Joshi, K.| Bijalwan, A.	Advanced Technologies for Realizing Sustainable Development Goals: 5G, AI, Big Data, Blockchain, and Industry 4.0 Application	2024	-	10.2174/9789815256680124010101
24	Biochar production methods and their transformative potential for environmental remediation	Rajput, V.| Saini, I.| Parmar, S.| Pundir, V.| Kumar, V.| Kumar, V.| Naik, B.| Rustagi, S.	Discover Applied Sciences	2024	6.5	10.1007/s42452-024-06125-4
25	Biofortification as a solution for addressing nutrient deficiencies and malnutrition	Naik, B.| Kumar, V.| Rizwanuddin, S.| Mishra, S.| Kumar, V.| Saris, P.E.J.| Khanduri, N.| Kumar, A.| Pandey, P.| Gupta, A.K.| Khan, J.M.| Rustagi, S.	Heliyon	2024	4.1	10.1016/j.heliyon.2024.e30595
26	Edible Flowers: Health Benefits, Nutrition, Processing, and Applications	Gupta, A.K.| Kumar, V.| Naik, B.| Mishra, P.	Edible Flowers: Health Benefits, Nutrition, Processing, and Applications	2024	-	10.1016/C2022-0-02601-5
27	Fishers 4.0: Revolutionizing Contemporary Fisheries Management through Industry 4.0 Integration	Joshi, P.| Bhatt, A.| Aggarwal, G.	Proceedings - 2024 International Conference on Healthcare Innovations, Software and Engineering	2024	-	10.1109/HISET61796.2024.00054

S.No	Paper Title	Authors	Journal/Conference Proceedings/Book Chapters	Year	CiteScore	DOI
			Technologies, HISET 2024			
28	Green chemistry revolutionizing sustainability in the food industry: A comprehensive review and call to action	Gupta, A.K.| Boruah, T.| Ghosh, P.| Ikram, A.| Rana, S.S.| Shanker M, A.| Bachetti, A.| Jha, A.K.| Naik, B.| Kumar, V.| Rustagi, S.	Sustainable Chemistry and Pharmacy	2024	8.8	10.1016/j.scp.2024.101774
29	Green Synthesis of Al2O3 Nanoparticles from Agro-Waste as a Sustainable Approach	Santhanam, A.| Dhasmana, A.| Sati, A.| Bhandari, G.| Gupta, S.	Proceedings - 2024 International Conference on Healthcare Innovations, Software and Engineering Technologies, HISET 2024	2024	-	10.1109/HISET61796.2024.00045
30	Himalayan fruit and circular economy: nutraceutical potential, traditional uses, challenges and opportunities	Ritika| Bora, B.| Ismail, B.B.| Garba, U.| Mishra, S.| Jha, A.K.| Naik, B.| Kumar, V.| Rather, M.A.| Rizwana| Preet, M.| Rustagi, S.| Kumar, H.| Gupta, A.K.	Food Production, Processing and Nutrition	2024	7	10.1186/s43014-023-00220-6
31	Microbial Technology for Agro-Ecosystems: Crop Productivity, Sustainability, and Biofortification	Kumar, V.| Iram, S.	Microbial Technology for Agro-Ecosystems: Crop Productivity, Sustainability, and Biofortification	2024	-	10.1016/C2021-0-03424-6
32	Nanoparticles as a Tool for Alleviating Plant Stress: Mechanisms, Implications, and Challenges	Kumari, A.| Gupta, A.K.| Sharma, S.| Jadon, V.S.| Sharma, V.| Chun, S.C.| Sivanesan, I.	Plants	2024	7.6	10.3390/plants13111528
33	Nutraceutical Potential of Staple Food Crops	Joshi, A.| Gupta, A.K.| Jha, A.K.| Naik, B.| Kumar, V.| Rustagi, S.	Herbal Nutraceuticals: Products and Processes	2024	-	10.1002/9781394241576.ch16
34	Nutrition related practice of mother's under-five children	Haldar, P.| Viswanath, L.| Srivastava, A.K.	Indian Journal of Community Health	2024	0.4	10.47203/IJCH.2024.v36i01.012
35	Revolution of Agriculture: State-of-art and Research in IoT	Mall, S.| Singh, J.N.| Premkumar, S.| Srivastava, D.| Hussein, L.	Proceedings - IEEE 2024 1st International Conference on Advances in Computing, Communication and Networking, ICAC2N 2024	2024	-	10.1109/ICAC2N63387.2024.10895719
36	Rhizomicrobiome as a potential source of microbial inoculants for use in in vitro biotization mediated acclimatization of micropropagated plants	Jadon, V.S.| Joshi, N.| Bhandari, G.| Dhasmana, A.| Rauthan, P.| Rana, A.| Gupta, S.| Rana, D.| Sharma, V.	Rhizomicrobiome in Sustainable Agriculture and Environment	2024	-	10.1016/B978-0-443-23691-4.00015-4
37	Sustainable solutions for food security: Evaluating pre-treatment	Joshi, A.| Gupta, A.K.| Mansi| Semwal, S.| Deoli, N.| Rather, M.A.| Naik, B.|	Sustainable Chemistry and Pharmacy	2024	8.8	10.1016/j.scp.2024.101580

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	technologies in the growing fruits and vegetables industry of India	Kumar, V.| Jha, A.K.| Rustagi, S.| Preet, M.S.				
38	Traditional and Underutilized Fruits and Vegetables for Attaining Zero Hunger	Ritika| Mansi| Rizwana| Kumar, H.| Bora, B.| Rather, M.A.| Naik, B.| Kumar, V.| Ranjan, R.| Gupta, A.K.	Advances in Science, Technology and Innovation	2024	0.6	10.1007/978-3-031-51647-4_8
39	United nations sustainable development goals in the context of hydrological extremes	Uniyal, A.| Kaushik, N.| Uniyal, H.P.	Water Sustainability and Hydrological Extremes: Quantity, Quality, and Security	2024	-	10.1016/B978-0-443-21499-8.00014-3
40	A Perspective Review on Green Nanotechnology in Agro-Ecosystems: Opportunities for Sustainable Agricultural Practices & Environmental Remediation	Bhandari, G.| Dhasmana, A.| Chaudhary, P.| Gupta, S.| Gangola, S.| Gupta, A.| Rustagi, S.| Shende, S.S.| Rajput, V.D.| Minkina, T.| Malik, S.| Slama, P.	Agriculture (Switzerland)	2023	4.9	10.3390/agriculture13030668
41	Exploring microbial diversity responses in agricultural fields: a comparative analysis under pesticide stress and non-stress conditions	Gangola, S.| Joshi, S.| Bhandari, G.| Pant, G.| Sharma, A.| Perveen, K.| Bukhari, N.A.| Rani, R.	Frontiers in Microbiology	2023	7.7	10.3389/fmicb.2023.1271129
42	Impact of Nanoparticles on Abiotic Stress Tolerance	Bhandari, G.| Chaudhary, S.| Gupta, S.| Gangola, S.	Advances in Nanotechnology for Smart Agriculture: Techniques and Applications	2023	-	10.1201/9781003345565-12
43	Insights into the harvesting tools and equipment's for horticultural crops: From then to now	Kaur, B.| Mansi| Dimri, S.| Singh, J.| Mishra, S.| Chauhan, N.| Kukreti, T.| Sharma, B.| Singh, S.P.| Arora, S.| Uniyal, D.| Agrawal, Y.| Akhtar, S.| Rather, M.A.| Naik, B.| Kumar, V.| Gupta, A.K.| Rustagi, S.| Preet, M.S.	Journal of Agriculture and Food Research	2023	5.4	10.1016/j.jafr.2023.100814
44	Insights on bio-functional properties of Myrica esculenta plant for nutritional and livelihood security	Bhatt, S.C.| Kumar, V.| Gupta, A.K.| Mishra, S.| Naik, B.| Rustagi, S.| Preet, M.S.	Food Chemistry Advances	2023	1.9	10.1016/j.focha.2023.100434
45	Interaction Mechanism between α-Lactalbumin and Caffeic Acid: A Multispectroscopic and Molecular Docking Study	Al-Shabib, N.A.| Khan, J.M.| Al-Amri, A.M.| Malik, A.| Husain, F.M.| Sharma, P.| Emerson, A.| Kumar, V.| Sen, P.	ACS Omega	2023	6.6	10.1021/acsomega.3c01755
46	Novel food materials: Fundamentals and applications in sustainable food systems for food processing and safety	Gupta, A.K.| Pratiksha| Das, T.| Kumar, H.| Rastogi, S.| Espinosa, E.| Rincón, E.| Morcillo-Martín, R.| Rather, M.A.| Kumar, V.| Naik, B.|	Food Bioscience	2023	6.4	10.1016/j.fbio.2023.103013

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		Makroo, H.A.| Xiao, H.-W.| Ranjan, R.| Mishra, S.			
47	Nutritional Services in Hills of Uttarakhand- An Overview	Haldar, P.| Viswanath, L.| Srivastava, A.K.	National Journal of Community Medicine	2023	0.2	10.55489/njcm.140820233053
48	Role of Nanoparticles in Agriculture	Parveen, H.| Chaudhary, P.| Srivastava, P.| Priya, S.| Bhandari, G.| Chaudhary, A.	Advances in Nanotechnology for Smart Agriculture: Techniques and Applications	2023	-	10.1201/9781003345565-1
49	Tobacco smoking-related risk for iron deficiency anemia: A case-control study	Vivek, A.| Kaushik, R.M.| Kaushik, R.	Journal of Addictive Diseases	2023	4.3	10.1080/10550887.2022.2080627
50	Agricultural Science with IoT	Pant, Y.	Internet of Things for Agriculture 4.0: Impact and Challenges	2022	-	-
51	Impact of endophytic fungi in biotic stress management	Tyagi, J.| Chaudhary, P.| Jyotsana| Bhagwati, U.| Bhandari, G.| Chaudhary, A.	Plant Protection: From Chemicals to Biologicals	2022	-	10.1515/9783110771558-017
52	Nutritional Status and its Determinants in Toddlers: A case study of Hilly region of Uttarakhand	Haldar, P.| Viswanath, L.| Srivastava, A.K.| Sati, H.C.	Indian Journal of Community Health	2022	0.7	10.47203/IJCH.2022.v34i02.015
53	Pattern of nutritional status in node-negative versus node-positive head and neck cancer patients undergoing treatment: a prospective cohort study	Arora, A.| Saini, S.| Gupta, M.	Supportive Care in Cancer	2022	5.1	10.1007/s00520-022-07245-6
54	Approach Towards Sustainable Crop Production by Utilizing Potential Microbiome	Rani, U.| Kumar, M.| Kumar, V.	Microorganisms for Sustainability	2021	-	10.1007/978-981-15-9912-5_9
55	Metal based nanoparticles trigger the differential expression of key regulatory genes which regulate iron and zinc homeostasis mechanism in finger millet	Chandra, A.K.| Pandey, D.| Tiwari, A.| Gururani, K.| Agarwal, A.| Dhasmana, A.| Kumar, A.	Journal of Cereal Science	2021	6.4	10.1016/j.jcs.2021.103235

2.1.2 Zero Hunger: FWCI

During the 2021-2025 reporting period, SRHU produced 55 publications aligned with SDG 2, of which 40 reported FWCI data, with an average of 1.23. During 2025, 22 out of 9 publications reported FWCI data, with an average of 0.54.

List of publications with FWCI:

S.No	Paper Title	Authors	Journal/Conference Proceedings/Book Chapters	Year	FWCI	DOI
1	The Silent Crisis: Malnutrition in Uttarakhand's Children	Haldar, P.| Viswanath, L.| Srivastava, A.K.| James, A.| Sati, H.C.	National Journal of Community Medicine	2025	0	10.55489/njcm.160720255203
2	Spectroscopy: A powerful tool for evaluating soil fertility and assessing soil health	Bhatt, P.| Pant, P.K.| Sharma, D.| Gaurav, K.| Rawat, A.| Gangola, S.| Joshi, S.| Kumar, P.	Modern Spectroscopic Techniques for Drug Discovery and Environmental Sustainability	2025	0	10.4018/979-8-3693-7473-3.ch014
3	Screening for Anemia among School-going Adolescents using a Digital Hemoglobinometer in Rural Dehradun District	Yadav, S.| Negi, R.| Mishra, S.| Srivastava, A.K.	Indian Journal of Community Health	2025	0	10.47203/IJCH.2025.v37i05.028
4	Revolutionizing Crop Yield Prediction with Cutting-Edge Machine Learning and Big Data Techniques	Bagla, P.| Bhatt, P.| Sharma, R.| Chhabra, G.| Manchanda, M.| Mishra, A.K.	Proceedings of the 2025 International Conference on Artificial Intelligence and Emerging Technology, Global AI Summit 2025	2025	0	10.1109/AISummit66170.2025.11411308
5	Isolation and Characterization of Plant Growth Promoting Endophytes from Linum Usitatissimum	Bhandari, G.| Choudhary, S.| Deogaonkar, A.| Kumar, D.| Miglani, K.| Gupta, S.| Joshi, S.| Mittal, A.| Gangola, S.	Research in Ecology	2025	0	10.30564/re.v7i2.9406
6	IoT-Based Crop Health Prediction Using Hybrid CNN-LSTM Models	Dubey, R.| Rao, E.| Singh, G.| Chaudhary, N.| Singh, A.| Kler, R.	International Conference on Intelligent and Innovative Practices in Engineering and Management, IIPEM 2025	2025	0	10.1109/IIPEM65914.2025.11548437
7	Framework for Implementing Extended Reality in Agricultural Education	Ayasrah, F.T.| Verma, A.| Chaudhari, S.V.| Kumar, P.| Cengiz, K.	The Convergence of Extended Reality and Metaverse in Agriculture	2025	0	10.4018/979-8-3373-2797-6.ch002
8	Enhanced Tea Leaf Disease Classification Using Transfer Learning and Continuous Layer with Attention Mechanism	Rajput, G.K.| Singh, D.| Siddhi, P.| Chhabra, G.| Prajapati, S.| Brijwal, A.	Proceedings of the 2025 14th International Conference on System Modeling and Advancement in Research Trends, SMART 2025	2025	0	10.1109/SMART66937.2025.11389275
9	Ecological Assessment of Nano Micronutrient Composites on Growth Dynamics and Yield Performance of Late-Sown Wheat (Triticum aestivum L.)	Jain, S.| Pathak, V.K.| Deogaonkar, A.| Vashistha, P.| Kumar, D.| Kabak, G.| Gaurav, K.| Gangola, S.| Divya| Srivastava, P.| Kumar, S.| Rawat, A.| Bhatt, P.| Khwairakpam, R.| Gupta, S.| Misra, S.| Gaur, A.| Joshi, S.| Bhardwaj, R.	Research in Ecology	2025	0	10.30564/re.v7i4.9640
10	Crop Disease Detection Using Convolutional Neural Network (CNN)	Baghe, P.S.| Singhal, M.| Rani, R.| Kanauzia, R.	Proceedings of 1st IEEE Uttar Pradesh Section Women in Engineering International Conference on Electrical, Electronics and Computer Engineering, UPWIECON 2025	2025	0	10.1109/UPWIECON67212.2025.11390289

S.No	Paper Title	Authors	Journal/Conference Proceedings/Book Chapters	Year	FWCI	DOI
11	An Intelligent Approach to Predict Agricultural Productivity Using Artificial Neural Network Framework	Mall, S.| Sharma, V.| Srivastava, D.	Healthcare Recommender Systems: Techniques and Recent Developments	2025	0	10.1007/978-3-031-80056-6_17
12	AI-Driven Indian Cuisine Recommender for Health-Conscious Foodies	Budhiraja, S.| Batra, N.| Rani, S.| Dixit, R.| Garg, A.| Tyagi, P.	2025 International Conference on Artificial Intelligence and Machine Vision, AIMV 2025	2025	0	10.1109/AIMV66517.2025.11203599
13	A Fusion-Driven Deep Learning Framework for Robust and Scalable Face Recognition in Biometric Systems	Tyagi, P.| Bindal, A.K.| Srivastava, D.	IC-DECON 2025 International Conference on Data, Energy and Communication Network	2025	0	10.1109/DECoN67170.2025.11447814
14	Green and sustainable utilization of underutilized exudate gums from the Himalayan region: Advances in nutraceutical and pharmaceutical applications	Anand, A.| Pratiksha| Boruah, T.| Gupta, A.K.| Chutia, H.| Naik, B.| Kumar, V.	Sustainable Chemistry and Pharmacy	2025	0.07	10.1016/j.scp.2025.102160
15	Process optimization for the extraction of Shorea robusta (Sal) seed oil using response surface methodology and its characterization: A sustainable approach to oil valorization	Thapa, D.| Kumar, V.| Naik, B.| KumarGupta, A.| Richa, R.	Food Chemistry: X	2025	0.7	10.1016/j.fochx.2025.103380
16	Exploration of compositional, functional, nutraceutical, and metabolites of Ram kandmool (Agave sisalana Perrine) for potential application in food systems	Rawat, M.| Varshney, A.| Kandpal, R.| Choudhary, A.| Gupta, A.K.| Pratiksha| Naik, B.| Kumar, V.| Kumar, A.| Kheto, A.| Bhatt, S.| Makroo, H.A.| Jha, A.K.| Rustagi, S.	International Journal of Biological Macromolecules	2025	0.78	10.1016/j.ijbiomac.2025.142095
17	Cloud Computing-Enabled Hybrid Machine Learning Models for Crop Yield Prediction	Chunawala, H.| Chhabra, G.| Guru, A.| Shrivastava, A.| Obbayed, S.| Yadav, L.N.	International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity, ISAC3 2025	2025	0.89	10.1109/ISAC364032.2025.11156391
18	Enhancing the functionality of extruded snack (namkeen) using indigenous ingredients of Uttarakhand, India: A predictive modelling approach for shelf-life optimization	Kandpal, R.| Anand, S.| Choudhary, A.| Kunwar, T.| Gupta, A.K.| Kaur, R.| Jha, A.K.| Chutia, H.| Naik, B.| Kumar, V.| Makroo, H.A.| Rustagi, S.| Tavassoli, M.	Discover Food	2025	0.99	10.1007/s44187-025-00333-6
19	Millet biofortification for enhanced iron content: Roadmap for combating hidden hunger	Chaudhary, R.| Sharma, C.| Kumar, V.| Rajput, V.| Naik, B.| Prasad, R.| Sharma, S.| Kumar, V.	Journal of Agriculture and Food Research	2025	1.27	10.1016/j.jafr.2025.101654
20	Advances in Contemporary Tools for Detecting and Diagnosing Plant Pathogens	Chaudhary, A.| Chaudhary, P.| Singh, S.| Bhandari, G.| Tripathi, V.	Interdisciplinary Biotechnological Advances	2025	1.68	10.1007/978-981-97-7510-1_9
21	Rhizobium as a potential biofertilizer and its quality control analysis for sustainable agriculture	Bahuguna, V.| Matura, R.| Farswan, A.S.| Naqvi, S.S.| Sharma, N.| Chaudhary, M.	Journal of Applied Biology and Biotechnology	2025	1.96	10.7324/JABB.2025.197428

S.No	Paper Title	Authors	Journal/Conference Proceedings/Book Chapters	Year	FWCI	DOI
22	Harnessing nanotechnology for sustainable agriculture: From seed priming to encapsulation	Mahra, S.| Tripathi, S.| Tiwari, K.| Sharma, S.| Mathew, S.| Kumar, V.| Sharma, S.	Plant Nano Biology	2025	3.49	10.1016/j.plana.2024.100124
23	Nutrition related practice of mother's under-five children	Haldar, P.| Viswanath, L.| Srivastava, A.K.	Indian Journal of Community Health	2024	0.17	10.47203/IJCH.2024.v36i01.012
24	Microbial Technology for Agro-Ecosystems: Crop Productivity, Sustainability, and Biofortification	Kumar, V.| Iram, S.	Microbial Technology for Agro-Ecosystems	2024	0.32	10.1016/C2021-0-03424-6
25	Advanced technologies for realizing sustainable development goals: 5G, AI, big data, blockchain, and Industry 4.0 application	Bhatt, A.| Joshi, P.| Joshi, K.| Bijalwan, A.	Advanced Technologies for Realizing Sustainable Development Goals	2024	0.33	10.2174/9789815266801240101
26	Revolution of Agriculture: State-of-art and Research in IoT	Mall, S.| Singh, J.N.| Premkumar, S.| Srivastava, D.| Hussein, L.	1st International Conference on Advances in Computing, Communication and Networking (ICAC2N)	2024	0.35	10.1109/ICAC2N63387.2024.10895719
27	Green Synthesis of Al2O3 Nanoparticles from Agro-Waste as a Sustainable Approach	Santhanam, A.| Dhasmana, A.| Sati, A.| Bhandari, G.| Gupta, S.	Proceedings 2024 International Conference on Healthcare Innovations Software and Engineering Technologies HISET 2024	2024	0.38	10.1109/HISET61796.2024.00045
28	Rhizomicrobiome as a potential source of microbial inoculants for use in in vitro biotization mediated acclimatization of micropropagated plants	Jadon, V.S.| Joshi, N.| Bhandari, G.| Dhasmana, A.| Rauthan, P.| Rana, A.| Gupta, S.| Rana, D.| Sharma, V.	Rhizomicrobiome in Sustainable Agriculture and Environment	2024	0.66	10.1016/B978-0-443-23691-4.00015-4
29	Sustainable solutions for food security: Evaluating pre-treatment technologies in the growing fruits and vegetables industry of India	Joshi, A.| Gupta, A.K.| Mansi| Semwal, S.| Deoli, N.| Rather, M.A.| Naik, B.| Kumar, V.| Jha, A.K.| Rustagi, S.| Preet, M.S.	Sustainable Chemistry and Pharmacy	2024	0.82	10.1016/j.scp.2024.101580
30	Green chemistry revolutionizing sustainability in the food industry: A comprehensive review and call to action	Gupta, A.K.| Boruah, T.| Ghosh, P.| Ikram, A.| Rana, S.S.| Shanker M, A.| Bachetti, A.| Jha, A.K.| Naik, B.| Kumar, V.| Rustagi, S.	Sustainable Chemistry and Pharmacy	2024	0.89	10.1016/j.scp.2024.101774
31	Himalayan fruit and circular economy: nutraceutical potential, traditional uses, challenges and opportunities	Ritika| Bora, B.| Ismail, B.B.| Garba, U.| Mishra, S.| Jha, A.K.| Naik, B.| Kumar, V.| Rather, M.A.| Rizwana| Preet, M.| Rustagi, S.| Kumar, H.| Gupta, A.K.	Food Production Processing and Nutrition	2024	1.07	10.1186/s43014-023-00220-6
32	United nations sustainable development goals in the context of hydrological extremes	Uniyal, A.| Kaushik, N.| Uniyal, H.P.	Water Sustainability and Hydrological Extremes: Quantity, Quality and Security	2024	1.14	10.1016/B978-0-443-21499-8.00014-3
33	Nutraceutical Potential of Staple Food Crops	Joshi, A.| Gupta, A.K.| Jha, A.K.| Naik, B.| Kumar, V.| Rustagi, S.	Herbal Nutraceuticals: Products and Processes	2024	1.86	10.1002/9781394241576.ch16

S.No	Paper Title	Authors	Journal/Conference Proceedings/Book Chapters	Year	FWCI	DOI
34	Fishers 4.0: Revolutionizing Contemporary Fisheries Management through Industry 4.0 Integration	Joshi, P.| Bhatt, A.| Aggarwal, G.	Proceedings 2024 International Conference on Healthcare Innovations Software and Engineering Technologies HISET 2024	2024	1.9	10.1109/HISET61796.2024.00054
35	Edible Flowers: Health Benefits, Nutrition, Processing, and Applications	Gupta, A.K.| Kumar, V.| Naik, B.| Mishra, P.	Edible Flowers Health Benefits Nutrition Processing and Applications	2024	1.94	10.1016/C2022-0-02601-5
36	Biochar production methods and their transformative potential for environmental remediation	Rajput, V.| Saini, I.| Parmar, S.| Pundir, V.| Kumar, V.| Kumar, V.| Naik, B.| Rustagi, S.	Discover Applied Sciences	2024	2.18	10.1007/s42452-024-06125-4
37	Traditional and Underutilized Fruits and Vegetables for Attaining Zero Hunger	Ritika| Mansi| Rizwana| Kumar, H.| Bora, B.| Rather, M.A.| Naik, B.| Kumar, V.| Ranjan, R.| Gupta, A.K.	Advances in Science, Technology and Innovation	2024	2.55	10.1007/978-3-031-51647-4_8
38	Biofortification as a solution for addressing nutrient deficiencies and malnutrition	Naik, B.| Kumar, V.| Rizwanuddin, S.| Mishra, S.| Kumar, V.| Saris, P.E.J.| Khanduri, N.| Kumar, A.| Pandey, P.| Gupta, A.K.| Khan, J.M.| Rustagi, S.	Heliyon	2024	2.71	10.1016/j.heliyon.2024.e30595
39	Nanoparticles as a Tool for Alleviating Plant Stress: Mechanisms, Implications, and Challenges	Kumari, A.| Gupta, A.K.| Sharma, S.| Jadon, V.S.| Sharma, V.| Chun, S.C.| Sivanesan, I.	Plants	2024	3.15	10.3390/plants13111528
40	Impact of Nanoparticles on Abiotic Stress Tolerance	Bhandari, G.| Chaudhary, S.| Gupta, S.| Gangola, S.	Advances in Nanotechnology for Smart Agriculture: Techniques and Applications	2023	0	10.1201/9781003345565-12
41	Nutritional Services in Hills of Uttarakhand- An Overview	Haldar, P.| Viswanath, L.| Srivastava, A.K.	National Journal of Community Medicine	2023	0.22	10.55489/njcm.140820233053
42	Insights on bio-functional properties of Myrica esculenta plant for nutritional and livelihood security	Bhatt, S.C.| Kumar, V.| Gupta, A.K.| Mishra, S.| Naik, B.| Rustagi, S.| Preet, M.S.	Food Chemistry Advances	2023	0.78	10.1016/j.focha.2023.100434
43	Interaction Mechanism between α-Lactalbumin and Caffeic Acid: A Multispectroscopic and Molecular Docking Study	Al-Shabib, N.A.| Khan, J.M.| Al-Amri, A.M.| Malik, A.| Husain, F.M.| Sharma, P.| Emerson, A.| Kumar, V.| Sen, P.	ACS Omega	2023	1.24	10.1021/acsomega.3c01755
44	Tobacco smoking-related risk for iron deficiency anemia: A case-control study	Vivek, A.| Kaushik, R.M.| Kaushik, R.	Journal of Addictive Diseases	2023	1.57	10.1080/10550887.2022.2080627
45	Novel food materials: Fundamentals and applications in sustainable food systems for food processing and safety	Gupta, A.K.| Pratiksha| Das, T.| Kumar, H.| Rastogi, S.| Espinosa, E.| Rincón, E.| Morcillo-Martín, R.| Rather, M.A.| Kumar, V.| Naik, B.|	Food Bioscience	2023	1.59	10.1016/j.fbio.2023.103013

S.No	Paper Title	Authors	Journal/Conference Proceedings/Book Chapters	Year	FWCI	DOI
		Makroo, H.A.| Xiao, H.-W.| Ranjan, R.| Mishra, S.			
46	Exploring microbial diversity responses in agricultural fields: a comparative analysis under pesticide stress and non-stress conditions	Gangola, S.| Joshi, S.| Bhandari, G.| Pant, G.| Sharma, A.| Perveen, K.| Bukhari, N.A.| Rani, R.	Frontiers in Microbiology	2023	2.22	10.3389/fmicb.2023.1271129
47	A Perspective Review on Green Nanotechnology in Agro-Ecosystems: Opportunities for Sustainable Agricultural Practices & Environmental Remediation	Bhandari, G.| Dhasmana, A.| Chaudhary, P.| Gupta, S.| Gangola, S.| Gupta, A.| Rustagi, S.| Shende, S.S.| Rajput, V.D.| Minkina, T.| Malik, S.| Slama, P.	Agriculture Switzerland	2023	2.68	10.3390/agriculture13030668
48	Insights into the harvesting tools and equipment's for horticultural crops: From then to now	Kaur, B.| Mansi| Dimri, S.| Singh, J.| Mishra, S.| Chauhan, N.| Kukreti, T.| Sharma, B.| Singh, S.P.| Arora, S.| Uniyal, D.| Agrawal, Y.| Akhtar, S.| Rather, M.A.| Naik, B.| Kumar, V.| Gupta, A.K.| Rustagi, S.| Preet, M.S.	Journal of Agriculture and Food Research	2023	7.14	10.1016/j.jafr.2023.100814
49	Role of Nanoparticles in Agriculture	Parveen, H.| Chaudhary, P.| Srivastava, P.| Priya, S.| Bhandari, G.| Chaudhary, A.	Advances in Nanotechnology for Smart Agriculture: Techniques and Applications	2023	7.46	10.1201/9781003345565-1
50	Pattern of nutritional status in node-negative versus node-positive head and neck cancer patients undergoing treatment: a prospective cohort study	Arora, A.| Saini, S.| Gupta, M.	Supportive Care in Cancer	2022	0.16	10.1007/s00520-022-07245-6
51	Nutritional Status and its Determinants in Toddlers: A case study of Hilly region of Uttarakhand	Haldar, P.| Viswanath, L.| Srivastava, A.K.| Sati, H.C.	Indian Journal of Community Health	2022	0.21	10.47203/IJCH.2022.v34i02.015
52	Agricultural Science with IoT	Pant, Y.	Internet of Things for Agriculture 4.0: Impact and Challenges	2022	0.38	https://www.scopus.com/pages/publications/85131984157?source=scival
53	Impact of endophytic fungi in biotic stress management	Tyagi, J.| Chaudhary, P.| Jyotsana| Bhagwati, U.| Bhandari, G.| Chaudhary, A.	Plant Protection from Chemicals to Biologicals	2022	6.64	10.1515/9783110771558-017
54	Approach Towards Sustainable Crop Production by Utilizing Potential Microbiome	Rani, U.| Kumar, M.| Kumar, V.	Microorganisms for Sustainability	2021	0	10.1007/978-981-15-9912-5_9
55	Metal based nanoparticles trigger the differential expression of key regulatory genes which regulate iron and zinc homeostasis mechanism in finger millet	Chandra, A.K.| Pandey, D.| Tiwari, A.| Gururani, K.| Agarwal, A.| Dhasmana, A.| Kumar, A.	Journal of Cereal Science	2021	1.26	10.1016/j.jcs.2021.103235

2.1.3 Zero Hunger: Publications

Swami Rama Himalayan University (SRHU) produced 55 publications aligned with SDG 2 during 2021-2025, spanning food science and nutraceutical valorization of underutilized crops and byproducts, plant nanotechnology and biofortification, sustainable agriculture and plant-microbiome research, AI/ML applications in crop yield prediction and disease detection, child and maternal malnutrition, and food security policy.

List of Publications:

S.No	Paper Title	Authors	Journal / Book Name	Year	DOI
1	A Fusion-Driven Deep Learning Framework for Robust and Scalable Face Recognition in Biometric Systems	Tyagi, P.| Bindal, A.K.| Srivastava, D.	IC-DECON 2025 - 2025 International Conference on Data, Energy and Communication Network, Proceedings	2025	0.1109/DECoN67170.2025.11447814
2	Advances in Contemporary Tools for Detecting and Diagnosing Plant Pathogens	Chaudhary, A.| Chaudhary, P.| Singh, S.| Bhandari, G.| Tripathi, V.	Interdisciplinary Biotechnological Advances	2025	10.1007/978-981-97-7510-1_9
3	AI-Driven Indian Cuisine Recommender for Health-Conscious Foodies	Budhiraja, S.| Batra, N.| Rani, S.| Dixit, R.| Garg, A.| Tyagi, P.	2025 International Conference on Artificial Intelligence and Machine Vision, AIMV 2025	2025	10.1109/AIMV66517.2025.11203599
4	An Intelligent Approach to Predict Agricultural Productivity Using Artificial Neural Network Framework	Mall, S.| Sharma, V.| Srivastava, D.	Healthcare Recommender Systems: Techniques and Recent Developments	2025	10.1007/978-3-031-80056-6_17
5	Cloud Computing-Enabled Hybrid Machine Learning Models for Crop Yield Prediction	Chunawala, H.| Chhabra, G.| Guru, A.| Shrivastava, A.| Obbayed, S.| Yadav, L.N.	International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity, ISAC3 2025	2025	10.1109/ISAC364032.2025.11156391
6	Crop Disease Detection Using Convolutional Neural Network (CNN)	Baghe, P.S.| Singhal, M.| Rani, R.| Kanauzia, R.	Proceedings of 1st IEEE Uttar Pradesh Section Women in Engineering International Conference on Electrical, Electronics and Computer Engineering, UPWIECON 2025	2025	10.1109/UPWIECON67212.2025.11390289
7	Ecological Assessment of Nano Micronutrient Composites on Growth Dynamics and Yield Performance of Late-Sown Wheat (Triticum aestivum L.)	Jain, S.| Pathak, V.K.| Deogaonkar, A.| Vashistha, P.| Kumar, D.| Kabak, G.| Gaurav, K.| Gangola, S.| Divya| Srivastava, P.| Kumar, S.| Rawat, A.| Bhatt, P.| Khwairakpam, R.| Gupta, S.| Misra, S.| Gaur, A.| Joshi, S.| Bhardwaj, R.	Research in Ecology	2025	10.30564/re.v7i4.9640
8	Enhanced Tea Leaf Disease Classification Using Transfer Learning and Continuous Layer with Attention Mechanism	Rajput, G.K.| Singh, D.| Siddhi, P.| Chhabra, G.| Prajapati, S.| Brijwal, A.	Proceedings of the 2025 14th International Conference on System Modeling and	2025	10.1109/SMART66937.2025.11389275

S.No	Paper Title	Authors	Journal / Book Name	Year	DOI
			Advancement in Research Trends, SMART 2025		
9	Enhancing the functionality of extruded snack (namkeen) using indigenous ingredients of Uttarakhand, India: A predictive modelling approach for shelf-life optimization	Kandpal, R.| Anand, S.| Choudhary, A.| Kunwar, T.| Gupta, A.K.| Kaur, R.| Jha, A.K.| Chutia, H.| Naik, B.| Kumar, V.| Makroo, H.A.| Rustagi, S.| Tavassoli, M.	Discover Food	2025	10.1007/s44187-025-00333-6
10	Exploration of compositional, functional, nutraceutical, and metabolites of Ram kandmool (Agave sisalana Perrine) for potential application in food systems	Rawat, M.| Varshney, A.| Kandpal, R.| Choudhary, A.| Gupta, A.K.| Pratiksha| Naik, B.| Kumar, V.| Kumar, A.| Kheto, A.| Bhatt, S.| Makroo, H.A.| Jha, A.K.| Rustagi, S.	International Journal of Biological Macromolecules	2025	10.1016/j.ijbiomac.2025.142095
11	Framework for Implementing Extended Reality in Agricultural Education	Ayasrah, F.T.| Verma, A.| Chaudhari, S.V.| Kumar, P.| Cengiz, K.	The Convergence of Extended Reality and Metaverse in Agriculture	2025	10.4018/979-8-3373-2797-6.ch002
12	Green and sustainable utilization of underutilized exudate gums from the Himalayan region: Advances in nutraceutical and pharmaceutical applications	Anand, A.| Pratiksha| Boruah, T.| Gupta, A.K.| Chutia, H.| Naik, B.| Kumar, V.	Sustainable Chemistry and Pharmacy	2025	10.1016/j.scp.2025.102160
13	Harnessing nanotechnology for sustainable agriculture: From seed priming to encapsulation	Mahra, S.| Tripathi, S.| Tiwari, K.| Sharma, S.| Mathew, S.| Kumar, V.| Sharma, S.	Plant Nano Biology	2025	10.1016/j.plana.2024.100124
14	IoT-Based Crop Health Prediction Using Hybrid CNN-LSTM Models	Dubey, R.| Rao, E.| Singh, G.| Chaudhary, N.| Singh, A.| Kler, R.	International Conference on Intelligent and Innovative Practices in Engineering and Management, IIPEM 2025	2025	10.1109/IIPEM65914.2025.11548437
15	Isolation and Characterization of Plant Growth Promoting Endophytes from Linum Usitatissimum	Bhandari, G.| Choudhary, S.| Deogaonkar, A.| Kumar, D.| Miglani, K.| Gupta, S.| Joshi, S.| Mittal, A.| Gangola, S.	Research in Ecology	2025	10.30564/re.v7i2.9406
16	Millet biofortification for enhanced iron content: Roadmap for combating hidden hunger	Chaudhary, R.| Sharma, C.| Kumar, V.| Rajput, V.| Naik, B.| Prasad, R.| Sharma, S.| Kumar, V.	Journal of Agriculture and Food Research	2025	10.1016/j.jafr.2025.101654
17	Process optimization for the extraction of Shorea robusta (Sal) seed oil using response surface methodology and its characterization: A sustainable approach to oil valorization	Thapa, D.| Kumar, V.| Naik, B.| KumarGupta, A.| Richa, R.	Food Chemistry: X	2025	10.1016/j.fochx.2025.103380
18	Revolutionizing Crop Yield Prediction with Cutting-Edge Machine Learning and Big Data Techniques	Bagla, P.| Bhatt, P.| Sharma, R.| Chhabra, G.| Manchanda, M.| Mishra, A.K.	Proceedings of the 2025 International Conference on Artificial Intelligence and Emerging Technology, Global AI Summit 2025	2025	10.1109/AISummit66170.2025.11411308
19	Rhizobium as a potential biofertilizer and its quality control analysis for sustainable agriculture	Bahuguna, V.| Matura, R.| Farswan, A.S.| Naqvi, S.S.| Sharma, N.| Chaudhary, M.	Journal of Applied Biology and Biotechnology	2025	10.7324/JABB.2025.197428

S.No	Paper Title	Authors	Journal / Book Name	Year	DOI
20	Screening for Anemia among School-going Adolescents using a Digital Hemoglobinometer in Rural Dehradun District	Yadav, S.| Negi, R.| Mishra, S.| Srivastava, A.K.	Indian Journal of Community Health	2025	10.47203/IJCH.2025.v37i05.028
21	Spectroscopy: A powerful tool for evaluating soil fertility and assessing soil health	Bhatt, P.| Pant, P.K.| Sharma, D.| Gaurav, K.| Rawat, A.| Gangola, S.| Joshi, S.| Kumar, P.	Modern Spectroscopic Techniques for Drug Discovery and Environmental Sustainability	2025	10.4018/979-8-3693-7473-3.ch014
22	The Silent Crisis: Malnutrition in Uttarakhand's Children	Haldar, P.| Viswanath, L.| Srivastava, A.K.| James, A.| Sati, H.C.	National Journal of Community Medicine	2025	10.55489/njcm.160720255203
23	Advanced technologies for realizing sustainable development goals: 5G, AI, big data, blockchain, and Industry 4.0 application	Bhatt, A.| Joshi, P.| Joshi, K.| Bijalwan, A.	Advanced Technologies for Realizing Sustainable Development Goals: 5G, AI, Big Data, Blockchain, and Industry 4.0 Application	2024	10.2174/9789815256801240101
24	Biochar production methods and their transformative potential for environmental remediation	Rajput, V.| Saini, I.| Parmar, S.| Pundir, V.| Kumar, V.| Kumar, V.| Naik, B.| Rustagi, S.	Discover Applied Sciences	2024	10.1007/s42452-024-06125-4
25	Biofortification as a solution for addressing nutrient deficiencies and malnutrition	Naik, B.| Kumar, V.| Rizwanuddin, S.| Mishra, S.| Kumar, V.| Saris, P.E.J.| Khanduri, N.| Kumar, A.| Pandey, P.| Gupta, A.K.| Khan, J.M.| Rustagi, S.	Heliyon	2024	10.1016/j.heliyon.2024.e30595
26	Edible Flowers: Health Benefits, Nutrition, Processing, and Applications	Gupta, A.K.| Kumar, V.| Naik, B.| Mishra, P.	Edible Flowers: Health Benefits, Nutrition, Processing, and Applications	2024	10.1016/C2022-0-02601-5
27	Fishers 4.0: Revolutionizing Contemporary Fisheries Management through Industry 4.0 Integration	Joshi, P.| Bhatt, A.| Aggarwal, G.	Proceedings - 2024 International Conference on Healthcare Innovations, Software and Engineering Technologies, HISET 2024	2024	10.1109/HISET61796.2024.00054
28	Green chemistry revolutionizing sustainability in the food industry: A comprehensive review and call to action	Gupta, A.K.| Boruah, T.| Ghosh, P.| Ikram, A.| Rana, S.S.| Shanker M, A.| Bachetti, A.| Jha, A.K.| Naik, B.| Kumar, V.| Rustagi, S.	Sustainable Chemistry and Pharmacy	2024	10.1016/j.scp.2024.101774
29	Green Synthesis of Al2O3 Nanoparticles from Agro-Waste as a Sustainable Approach	Santhanam, A.| Dhasmana, A.| Sati, A.| Bhandari, G.| Gupta, S.	Proceedings - 2024 International Conference on Healthcare Innovations, Software and Engineering Technologies, HISET 2024	2024	10.1109/HISET61796.2024.00045
30	Himalayan fruit and circular economy: nutraceutical potential, traditional uses, challenges and opportunities	Ritika| Bora, B.| Ismail, B.B.| Garba, U.| Mishra, S.| Jha, A.K.| Naik, B.| Kumar, V.| Rather, M.A.| Rizwana| Preet, M.| Rustagi, S.| Kumar, H.| Gupta, A.K.	Food Production, Processing and Nutrition	2024	10.1186/s43014-023-00220-6
31	Microbial Technology for Agro-Ecosystems: Crop Productivity, Sustainability, and Biofortification	Kumar, V.| Iram, S.	Microbial Technology for Agro-Ecosystems: Crop Productivity, Sustainability, and Biofortification	2024	10.1016/C2021-0-03424-6

S.No	Paper Title	Authors	Journal / Book Name	Year	DOI
32	Nanoparticles as a Tool for Alleviating Plant Stress: Mechanisms, Implications, and Challenges	Kumari, A.| Gupta, A.K.| Sharma, S.| Jadon, V.S.| Sharma, V.| Chun, S.C.| Sivanesan, I.	Plants	2024	10.3390/plants13111528
33	Nutraceutical Potential of Staple Food Crops	Joshi, A.| Gupta, A.K.| Jha, A.K.| Naik, B.| Kumar, V.| Rustagi, S.	Herbal Nutraceuticals: Products and Processes	2024	10.1002/9781394241576.ch16
34	Nutrition related practice of mother's under-five children	Haldar, P.| Viswanath, L.| Srivastava, A.K.	Indian Journal of Community Health	2024	10.47203/IJCH.2024.v36i01.012
35	Revolution of Agriculture: State-of-art and Research in IoT	Mall, S.| Singh, J.N.| Premkumar, S.| Srivastava, D.| Hussein, L.	Proceedings - IEEE 2024 1st International Conference on Advances in Computing, Communication and Networking, ICAC2N 2024	2024	10.1109/ICAC2N63387.2024.10895719
36	Rhizomicrobiome as a potential source of microbial inoculants for use in in vitro biotization mediated acclimatization of micropropagated plants	Jadon, V.S.| Joshi, N.| Bhandari, G.| Dhasmana, A.| Rauthan, P.| Rana, A.| Gupta, S.| Rana, D.| Sharma, V.	Rhizomicrobiome in Sustainable Agriculture and Environment	2024	10.1016/B978-0-443-23691-4.00015-4
37	Sustainable solutions for food security: Evaluating pre-treatment technologies in the growing fruits and vegetables industry of India	Joshi, A.| Gupta, A.K.| Mansi| Semwal, S.| Deoli, N.| Rather, M.A.| Naik, B.| Kumar, V.| Jha, A.K.| Rustagi, S.| Preet, M.S.	Sustainable Chemistry and Pharmacy	2024	10.1016/j.scp.2024.101580
38	Traditional and Underutilized Fruits and Vegetables for Attaining Zero Hunger	Ritika| Mansi| Rizwana| Kumar, H.| Bora, B.| Rather, M.A.| Naik, B.| Kumar, V.| Ranjan, R.| Gupta, A.K.	Advances in Science, Technology and Innovation	2024	10.1007/978-3-031-51647-4_8
39	United nations sustainable development goals in the context of hydrological extremes	Uniyal, A.| Kaushik, N.| Uniyal, H.P.	Water Sustainability and Hydrological Extremes: Quantity, Quality, and Security	2024	10.1016/B978-0-443-21499-8.00014-3
40	A Perspective Review on Green Nanotechnology in Agro-Ecosystems: Opportunities for Sustainable Agricultural Practices & Environmental Remediation	Bhandari, G.| Dhasmana, A.| Chaudhary, P.| Gupta, S.| Gangola, S.| Gupta, A.| Rustagi, S.| Shende, S.S.| Rajput, V.D.| Minkina, T.| Malik, S.| Slama, P.	Agriculture (Switzerland)	2023	10.3390/agriculture13030668
41	Exploring microbial diversity responses in agricultural fields: a comparative analysis under pesticide stress and non-stress conditions	Gangola, S.| Joshi, S.| Bhandari, G.| Pant, G.| Sharma, A.| Perveen, K.| Bukhari, N.A.| Rani, R.	Frontiers in Microbiology	2023	10.3389/fmicb.2023.1271129
42	Impact of Nanoparticles on Abiotic Stress Tolerance	Bhandari, G.| Chaudhary, S.| Gupta, S.| Gangola, S.	Advances in Nanotechnology for Smart Agriculture: Techniques and Applications	2023	10.1201/9781003345565-12
43	Insights into the harvesting tools and equipment's for horticultural crops: From then to now	Kaur, B.| Mansi| Dimri, S.| Singh, J.| Mishra, S.| Chauhan, N.| Kukreti, T.| Sharma, B.| Singh, S.P.| Arora, S.| Uniyal, D.| Agrawal, Y.| Akhtar, S.| Rather, M.A.| Naik, B.| Kumar, V.| Gupta, A.K.| Rustagi, S.| Preet, M.S.	Journal of Agriculture and Food Research	2023	10.1016/j.jafr.2023.100814

S.No	Paper Title	Authors	Journal / Book Name	Year	DOI
44	Insights on bio-functional properties of Myrica esculenta plant for nutritional and livelihood security	Bhatt, S.C.| Kumar, V.| Gupta, A.K.| Mishra, S.| Naik, B.| Rustagi, S.| Preet, M.S.	Food Chemistry Advances	2023	10.1016/j.focha.2023.100434
45	Interaction Mechanism between α-Lactalbumin and Caffeic Acid: A Multispectroscopic and Molecular Docking Study	Al-Shabib, N.A.| Khan, J.M.| Al-Amri, A.M.| Malik, A.| Husain, F.M.| Sharma, P.| Emerson, A.| Kumar, V.| Sen, P.	ACS Omega	2023	10.1021/acsomega.3c01755
46	Novel food materials: Fundamentals and applications in sustainable food systems for food processing and safety	Gupta, A.K.| Pratiksha| Das, T.| Kumar, H.| Rastogi, S.| Espinosa, E.| Rincón, E.| Morcillo-Martín, R.| Rather, M.A.| Kumar, V.| Naik, B.| Makroo, H.A.| Xiao, H.-W.| Ranjan, R.| Mishra, S.	Food Bioscience	2023	10.1016/j.fbio.2023.103013
47	Nutritional Services in Hills of Uttarakhand- An Overview	Haldar, P.| Viswanath, L.| Srivastava, A.K.	National Journal of Community Medicine	2023	10.55489/njcm.140820233053
48	Role of Nanoparticles in Agriculture	Parveen, H.| Chaudhary, P.| Srivastava, P.| Priya, S.| Bhandari, G.| Chaudhary, A.	Advances in Nanotechnology for Smart Agriculture: Techniques and Applications	2023	10.1201/9781003345565-1
49	Tobacco smoking-related risk for iron deficiency anemia: A case-control study	Vivek, A.| Kaushik, R.M.| Kaushik, R.	Journal of Addictive Diseases	2023	10.1080/10550887.2022.2080627
50	Agricultural Science with IoT	Pant, Y.	Internet of Things for Agriculture 4.0: Impact and Challenges	2022	-
51	Impact of endophytic fungi in biotic stress management	Tyagi, J.| Chaudhary, P.| Jyotsana| Bhagwati, U.| Bhandari, G.| Chaudhary, A.	Plant Protection: From Chemicals to Biologicals	2022	10.1515/9783110771558-017
52	Nutritional Status and its Determinants in Toddlers: A case study of Hilly region of Uttarakhand	Haldar, P.| Viswanath, L.| Srivastava, A.K.| Sati, H.C.	Indian Journal of Community Health	2022	10.47203/IJCH.2022.v34i02.015
53	Pattern of nutritional status in node-negative versus node-positive head and neck cancer patients undergoing treatment: a prospective cohort study	Arora, A.| Saini, S.| Gupta, M.	Supportive Care in Cancer	2022	10.1007/s00520-022-07245-6
54	Approach Towards Sustainable Crop Production by Utilizing Potential Microbiome	Rani, U.| Kumar, M.| Kumar, V.	Microorganisms for Sustainability	2021	10.1007/978-981-15-9912-5_9
55	Metal based nanoparticles trigger the differential expression of key regulatory genes which regulate iron and zinc homeostasis mechanism in finger millet	Chandra, A.K.| Pandey, D.| Tiwari, A.| Gururani, K.| Agarwal, A.| Dhasmana, A.| Kumar, A.	Journal of Cereal Science	2021	10.1016/j.jcs.2021.103235

Curricular Integration and Academic Mapping for SDG 2 Alleviation

Program Name	Course Name	Course Code
MBBS Third Prof Part I & Part II	Community medicine	1101301
MD Physiology	Systemic Physiology (system providing transport, nutrition and energy) including comparative Physiology	1101515
MD Biochemistry	Enzymes, Bioenergetics, Biological oxidation, Intermediary metabolism and inborn errors of metabolism, Nutrition, Vitamins and Minerals, Detoxification and metabolism of xenobiotics, Free radicals, and antioxidant defence systems.	1101508
MD Community Medicine	Health Policy planning, Medical Education technology, Information Technology, Integration of alternative Health system including AYUSH, Occupational Health, Recent advances in Public Health & Miscellaneous issues, Health Economics.	1101509
MD Paediatrics	Recent advances	1101512
M. Sc. Epidemiology	Introduction to Environmental, Occupational, Nutritional and Genetic Epidemiology	CMEP502
M. Sc. Epidemiology	Nutritional Epidemiology	CMEC003
M. Sc. Epidemiology	Maternal and Child Health	CMEC005
BMLT	Virology and Mycology	BMLT 402
BMLT	General Parasitology	BMLT 502
B. Sc. Medical Technology (Radiotherapy-BRT)	Human Anatomy-I	BRT101
B. Sc. Medical Technology (Radiotherapy-BRT)	Human Anatomy-II	BRT201
Bachelor of Optometry (B. Optometry)	Human Physiology-I	BOPT102
Bachelor of Optometry (B. Optometry)	Biochemistry	BOPT103
Bachelor of Optometry (B. Optometry)	Human Physiology-II	BOPT202
Bachelor of Optometry (B. Optometry)	Basic Orthotics	BOPT203
Bachelor of Optometry (B. Optometry)	Basic Computer & Information Sciences	CIS201
Bachelor of Optometry (B. Optometry)	Microbiology	BOPT303
Bachelor of Optometry (B. Optometry)	Optometric investigations	BOPT401
Bachelor of Optometry (B. Optometry)	Environmental Science - II	EVS301
Bachelor of Optometry (B. Optometry)	Advanced contact lens	BOPT502

Bachelor of Optometry (B. Optometry)	Community optometry	BOPT601
Bachelor of Audiology and Speech-Language Pathology (BASLP)	Introduction to Audiology	B1. 2M
Bachelor of Audiology and Speech-Language Pathology (BASLP)	Anatomy and Physiology of Speech & Swallowing	B1. 3MC
Bachelor of Audiology and Speech-Language Pathology (BASLP)	Practical Speech-Language Pathology	B1. 5M
Bachelor of Audiology and Speech-Language Pathology (BASLP)	Diagnostic Audiology- Basic	B2. 2M
Bachelor of Audiology and Speech-Language Pathology (BASLP)	Linguistics and Phonetics	B2. 3MC
Bachelor of Audiology and Speech-Language Pathology (BASLP)	Clinical in Audiology	B2. 7M
Bachelor of Audiology and Speech-Language Pathology (BASLP)	Introduction to Yoga- Basic theory, science and techniques	YST201
Bachelor of Audiology and Speech-Language Pathology (BASLP)	Diagnostic Audiology Behavioural Test	B3. 3
Bachelor of Audiology and Speech-Language Pathology (BASLP)	Clinical in Speech Language Pathology	B3. 5
Bachelor of Audiology and Speech-Language Pathology (BASLP)	Clinical in Audiology	B3. 6
Bachelor of Audiology and Speech-Language Pathology (BASLP)	Diagnostic Audiology-Physiological Tests	B4. 3
Bachelor of Audiology and Speech-Language Pathology (BASLP)	Implantable Hearing Devices	B4. 4

Bachelor of Audiology and Speech-Language Pathology (BASLP)	Structural Anomalies &Speech Disorders	B5. 1
Bachelor of Audiology and Speech-Language Pathology (BASLP)	Clinical in Speech Language Pathology	B6. 5
Professional Diploma in Clinical Psychology (PDCP)	Psychological Perspective of Mental Disorder	PDCPT101
Professional Diploma in Clinical Psychology (PDCP)	Counselling and Psychotherapy	PDCPT102
Professional Diploma in Clinical Psychology (PDCP)	Psychiatry	PDCPT103
Professional Diploma in Clinical Psychology (PDCP)	Practical I: Psychological Assessment and Viva Voce	PDCPP101
Professional Diploma in Clinical Psychology (PDCP)	Practical II Psychological Intervention and Viva Voce	PDCPP102
Master of Physiotherapy (MPT)	Exercise Physiology & Nutrition	MPT201
Master of Physiotherapy (MPT)	Musculoskeletal Disorders: Physiotherapeutic II	MPT1 402
Master of Physiotherapy (MPT)	Neurological Disorders: Physiotherapeutic II	MPT2 402
B. Sc. Nursing	Community Health Nursing I including Environmental Science & Epidemiology - Practical	N- COMH (I) 310
B. Sc. Nursing	Child Health Nursing II - Practical	N-CHN (II) 301
B. Sc. Nursing	Community Health Nursing II - Practical	N- COMH (II) 401
B. Sc. Nursing	Midwifery/Obstetrics and Gynaecology (OBG) Nursing II including Safe Delivery App Module - Practical	N-MIDW (II)?OBG N 410
Post Basic BSc Nursing	Child Health Nursing - Practical	PBN102
Post Basic BSc Nursing	Maternal Nursing - Practical	PBN104
Post Basic BSc Nursing	Nutrition & Dietetics	PBN108
Post Basic BSc Nursing	Community Health Nursing - Practical	PBN201
M. Sc. Nursing	Child Health Nursing - I Practical	MSN102 A
M. Sc. Nursing	Community Health Nursing - I Practical	MSN102 B
M. Sc. Nursing	Child Health Nursing - II	MSN-201 A
M. Sc. Nursing	Community Health Nursing - II	MSN-201 B

M. Sc. Nursing	Child Health Nursing - II	MSN201 A
M. Sc. Nursing	Community Health Nursing - II	MSN201 B
Nursing Practice in Critical Care (NPCC)	Foundation of Critical Care Nursing Practice - Practical	NPC203
B. Sc. Biotechnology	Public Health & Hygiene	BBTSE 111
B. Sc. Biotechnology	Lab course based on course BBTC 122	BBTPC 122
B. Sc. Biotechnology	Developmental Biology	BBTC 232
B. Sc. Biotechnology	Food Fermentation Techniques	BMBC 502
B. Sc. Biotechnology	Food Biotechnology	BBTE 501 C
B. Sc. Biotechnology	Practical- IX (Paper XXIX & XXX)	BBTP 501
B. Sc. Microbiology	Microbial physiology & metabolism	BMBC 121
B. Sc. Microbiology	Industrial Microbiology	BMBC 122
B. Sc. Microbiology	Plant Physiology	BBTC 122
B. Sc. Microbiology	Bio fertilizers	BBTSE 121
B. Sc. Microbiology	Molecular Biology	BBTC 231
B. Sc. Microbiology	Food & Dairy Microbiology	BMBC 231
B. Sc. Microbiology	Microbial Quality Control in Food and Pharmaceutical Industries	BBTSE 231
B. Sc. Microbiology	Lab course based on course BMBC 231	BMPC 232
B. Sc. Microbiology	Biotechnology and Human Welfare	BBTOE 242
M.Sc Biotechnology, Sem-III	Plant & Animal Biotechnology	MBTT 302
M.Sc Biotechnology, Sem-III	Food and Industrial Biotechnology	MBTT 303
M.Sc Biotechnology, Sem-III	Transgenic Animal Technology	MBTE 304
M.Sc Biotechnology, Sem-III	Agro biotechnology	MBTE 305
M.Sc Biotechnology, Sem-III	Microbial Technology	MBTE 307
M.Sc Biotechnology, Sem-III	Plant & Animal Biotechnology Practical	MBTP 302
M.Sc Biotechnology, Sem-III	Food and Industrial Biotechnology Practical	MBTP 303
M. Sc. Microbiology	Food & Dairy Microbiology	MMBT 303
M. Sc. Microbiology	Soil and Agricultural Microbiology	MMBE 304

M. Sc. Microbiology	Food & Dairy Microbiology Practical	MMBP 303
BSc. Yoga Science and holistic health	Principles of Hatha Yoga -I	BYSC102
BSc. Yoga Science and Holistic Health	Human Anatomy and Physiology-I	BYSC103
BSc. Yoga Science and Holistic Health	Public Health and Hygiene	BYSC105
BSc. Yoga Science and Holistic Health	Human Anatomy and Physiology Practical - I	BYSC108
BSc. Yoga Science and Holistic Health	Principles of Hatha Yoga -II	BYSC202
BSc. Yoga Science and Holistic Health	Human Anatomy and Physiology-II	BYSC203
BSc. Yoga Science and Holistic Health	Yoga Practical - III	BYSC206
BSc. Yoga Science and Holistic Health	Yoga Practical - IV	BYSC207
BSc. Yoga Science and Holistic Health	Human Anatomy and Physiology Practical - II	BYSC208
BSc. Yoga Science and Holistic Health	Holistic Health	BYS303
BSc. Yoga Science and Holistic Health	Yoga Practical - V	BYS305
BSc. Yoga Science and holistic health	Yoga Practical - VI	BYS306
BSc. Yoga Science and holistic health	Holistic Health Practical	BYS307
BSc. Yoga Science and holistic health	Yoga Diet & Nutrition	BYS403
BSc. Yoga Science and Holistic Health	Fundamentals of Ayurveda	BYS404
BSc. Yoga Science and Holistic Health	Bhagavad-Gita	BYS501
BSc. Yoga Science and Holistic Health	Naturopathy Practical	BYS506(SP)
BSc. Yoga Science and Holistic Health	Elective-II Applied Alternative Therapies	BYS605
MSc. Yoga Science and Holistic Health	Human Anatomy and Physiology-I	MYS103
MSc. Yoga Science and Holistic Health	Principles of Hatha Yoga	MYS104
MSc. Yoga Science and Holistic Health	Human Anatomy and Physiology-II	MYS203
MSc. Yoga Science and Holistic Health	Yoga Practical III	MYS205
MSc. Yoga Science and Holistic Health	Yoga Practical IV	MYS206

MSc. Yoga Science and holistic health	Alternative Therapy	MYS305
MSc. Yoga Science and holistic health	Yoga Practical - V	MYS306
MSc. Yoga Science and Holistic Health	Yogic Management of Diseases	MY402
MSc. Yoga Science and Holistic Health	Elective I - Holistic Health	MYS403
B. Tech CSE - Cyber Security	Environmental Studies	HST112
Bachelor of Computer Applications (BCA)	Environmental Studies	BCT125
B. Sc. Data Science	Environmental Studies	MD121T
BBA	Business Mathematics	BBA 102
BBA	Soft Skills-I	BBA 106
BBA	Environment Studies	BBA 107
BBA	Business Statistics	BBA 202
BBA	Human Resource Management	BBA 206
BBA	Spreadsheet and Modelling Lab	BBA 306
BBA	International Business	BBA 404
BBA	Quantitative Techniques	BBA 405
BBA	Soft Skills-II	BBA 406
BBA	Business Policy and Strategic Management	BBA 501
BBA	Summer Internship Report	BBA 505
BBA	Soft Skills-II	BBA 506
B. Com	Business Communication	BCM 101
B. Com	Business Statistics	BCM 102
B. Com	Management Concepts & Organisational Behaviour	BCM 104
B. Com	English	BCM 106
B. Com	Advanced Accounting - I	BCM 202
B. Com	Environment Studies	BCM 207
B. Com	Advanced Accounting - II	BCM 301
B. Com	Principles Of Marketing	BCM 305
B. Com	Accounting Standards	BCM 401
B. Com	Banking & Insurance	BCM 402
B. Com	Company Law	BCM 501
B. Com	Financial Services Marketing	BCM 502
B. Com	Financial Market Institutions & Financial Services	BCM 602
MBA	Statistics For Managers	MBA 102
MBA	Financial Accounting & Reporting	MBA 103
MBA	Management Science	MBA 108
MBA	Strategic Management	MBA301

2.2 Campus food waste

The “Policy for Reducing Food Wastage” has been in place since 2019; the next review is due in 2025-26, and the policy is available on the university website. A foundational mechanism under this institutional policy involves measuring and tracking food waste generated from food served within the university, which establishes a vital baseline for reduction. By accurately monitoring these volumes, institutions can pinpoint inefficiencies in food handling and consumption, leading to targeted interventions that minimise resource depletion and promote sustainable operations, directly advancing Zero Hunger.

2.2.1 Campus food waste tracking

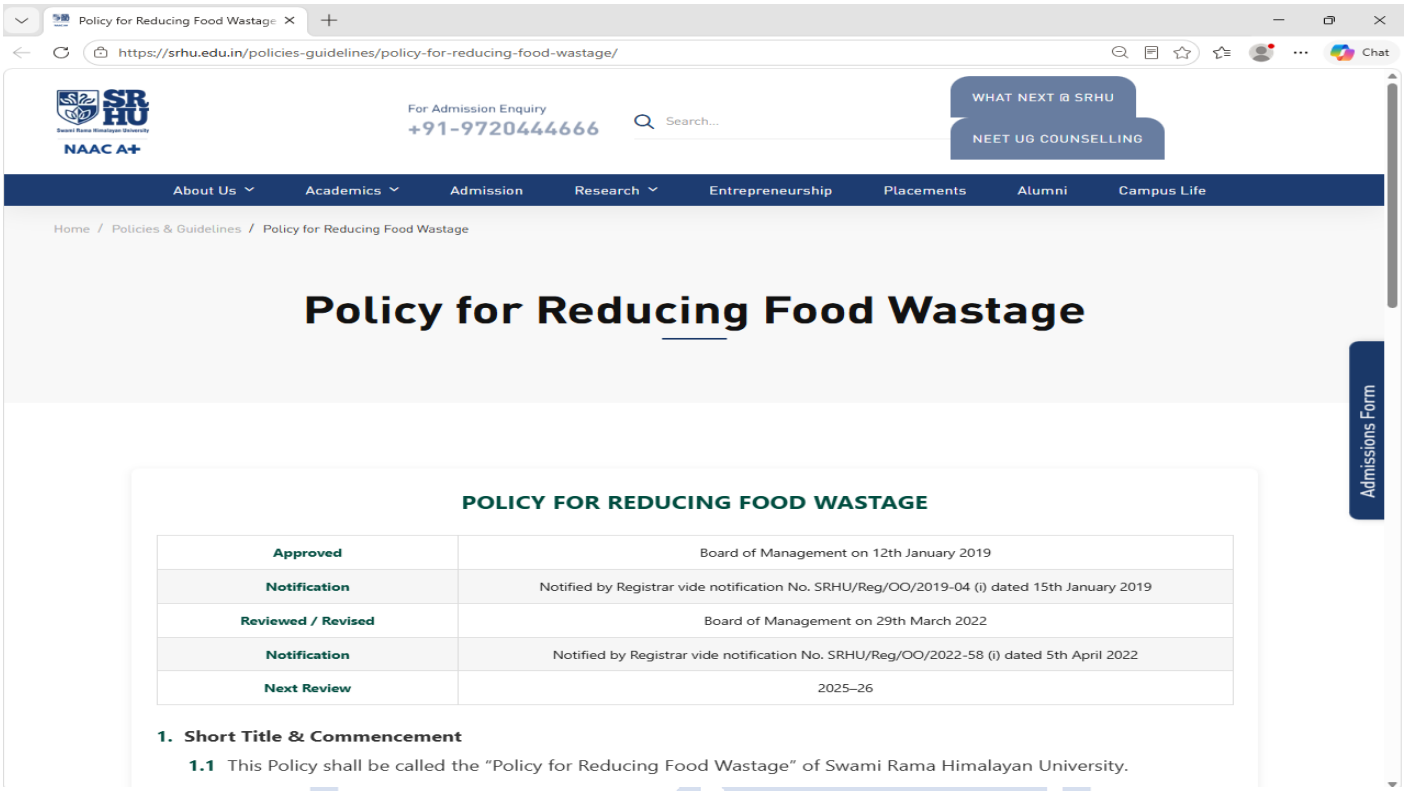
Swami Rama Himalayan University systematically measures and tracks campus food waste under its Policy for Reducing Food Wastage, which mandates annual monitoring, supply-chain loss prevention, and alignment with SDG 2. Kitchen and plate waste generated across all dining halls, residential hostels, kitchens, canteens, and guest houses is segregated at source, collected by housekeeping staff and quantified at a central location. Overall, 49.25 tons of food waste was processed in 2024-25, 47.30 tons in 2023-24, and 46.88 tons in 2022-23. In accordance with the policy’s circular economy and resource recovery mandates, collected organic waste is channelled directly into an on-campus anaerobic biogas plant for clean cooking fuel and into institutional composting units to produce organic manure for campus green cover.

Financial Year	Total Biodegradable (Food) Waste produced
	Tons
2024-25	49.25
2023-24	47.30
2022-23	46.88

Particulars	Status	Details
Existence of measurement	Yes	• Policy for Reducing Food Wastage • SRHU measures campus food waste for sustainable utilisation.
Evidence provided	Yes	• Screenshot: Policy for Reducing Food Wastage • Screenshot: SRHU measures campus food waste for sustainable utilisation.
Is the evidence provided public	Yes	• URL 01: https://srhu.edu.in/policies-guidelines/policy-for-reducing-food-wastage/ • URL 02: https://srhu.edu.in/sdg-waste/

Evidence 01

Policy for Reducing Food Wastage



Evidence 02

SRHU measures campus food waste for sustainable utilisation.



Financial Year	Total (Wet + Dry) Solid Waste Generated (Plant Waste not included)	Total Horticulture Waste Generated (Plant Waste)	Total Dry Waste Generated (Plant Waste not included)	Total Wet Waste Generated (Plant Waste not included)	Total Dry Waste Recycled	Total Biodegradable (Food) Waste Processed (excluding plant/tree waste)	Total Electronic Waste Generated
	Tons	Tons	Tons	Tons	Tons	Tons	KG
2024-25	411.2	205	162.25	248.95	137.25	49.25	253
2023-24	370	156	153.45	216.55	126.91	47.30	224
2022-23	333	121	148.14	184.86	127.89	46.88	150

2.2.2 Campus food waste

Eliminating biological waste from local landfills requires converting unavoidable food scraps into renewable energy and organic fertilisers. Swami Rama Himalayan University operates an anaerobic biogas plant adjacent to the university guest house, co-digesting food waste from campus kitchens with organic manure from the university dairy farm to produce clean cooking fuel for catering operations. Concurrently, campus composting infrastructure processes kitchen remnants into nutrient-dense organic fertiliser utilised across campus gardens, nurseries, and botanical plots. Institutional tracking documented that 49.25 tons of Total Biodegradable (Food) Waste were produced and processed (excluding plant/tree waste) into biogas and compost during the 2024-2025 cycle.

Waste Processed Details

Financial Year	Total Biodegradable (Food) Waste produced	Total Biodegradable (Food) Waste Processed
	Metric Ton	Metric Ton
2024-25	49.25	49.25
2023-24	47.30	47.30
2022-23	46.88	46.88

Campus food waste/person

Total food waste	49.25 Metric Ton
Campus population	9862
Food waste per person	0.005 Metric Ton

2.3 Student hunger

2.3.1 Student food insecurity and hunger

Swami Rama Himalayan University (SRHU) recognises access to nutritious and affordable food as an important component of student well-being and an enabling learning environment. The University provides regular access to food through hostel mess facilities, cafeterias, canteens and other food outlets across the campus. Hostel dining facilities provide balanced and affordable meals to resident students, while multiple campus food outlets ensure convenient access to meals throughout the day. SRHU also provides support to students facing financial hardship, including scholarships, fee concessions and need-based assistance. Faculty mentors and hostel wardens are encouraged to identify students who may be skipping meals because of economic constraints and provide appropriate support.

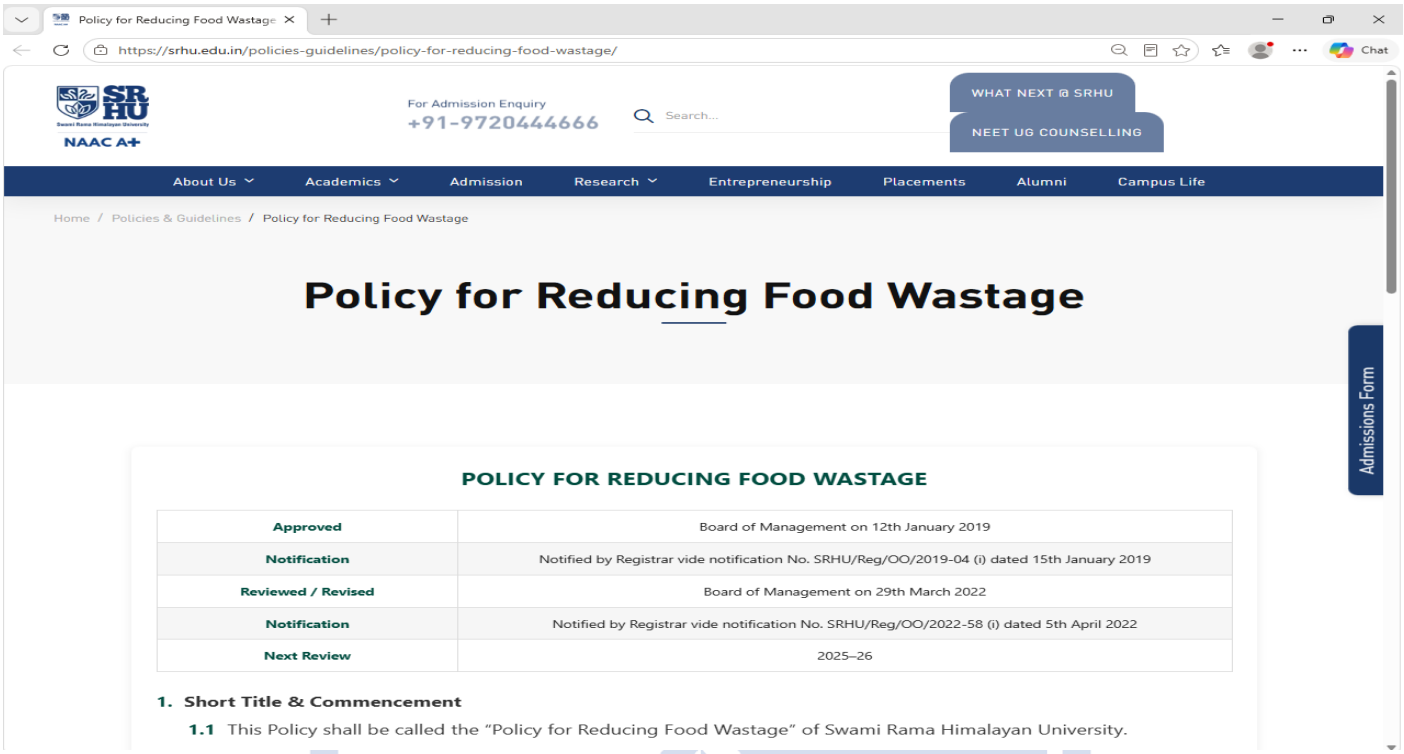
SRHU's Policy for Scholarships & Fee Concessions provides need-based financial assistance, including a Merit-cum-Means Scholarship for students from economically weaker sections whose family annual income is below ₹5 lakh. The policy provides 50% tuition-fee support in the first year, subject to the specified eligibility conditions.

Particulars	Status	Details
Existence of programme	Yes	Policy for Reducing Food Wastage The Food Project (Student-run pre-start-up incubated at SRHU)
Evidence provided	Yes	Screenshot: Policy for Reducing Food Wastage Image of The Food Project
Is the evidence provided public	Yes	Policy available on University website: URL 01: https://srhu.edu.in/policies-guidelines/policy-for-reducing-food-wastage/

Evidences

Evidence 1:

Policy for Reducing Food Wastage



Evidence 2

The Food Project (Student-run pre-start-up incubated at SRHU)



2.3.2 Student hunger interventions

SRHU has institutional mechanisms to support students experiencing financial hardship that may affect their ability to meet essential living and nutritional needs. The University provides scholarships, fee concessions and need-based financial assistance to eligible students. Faculty mentors and hostel wardens are encouraged to identify students who may be skipping meals because of economic constraints and facilitate appropriate support.

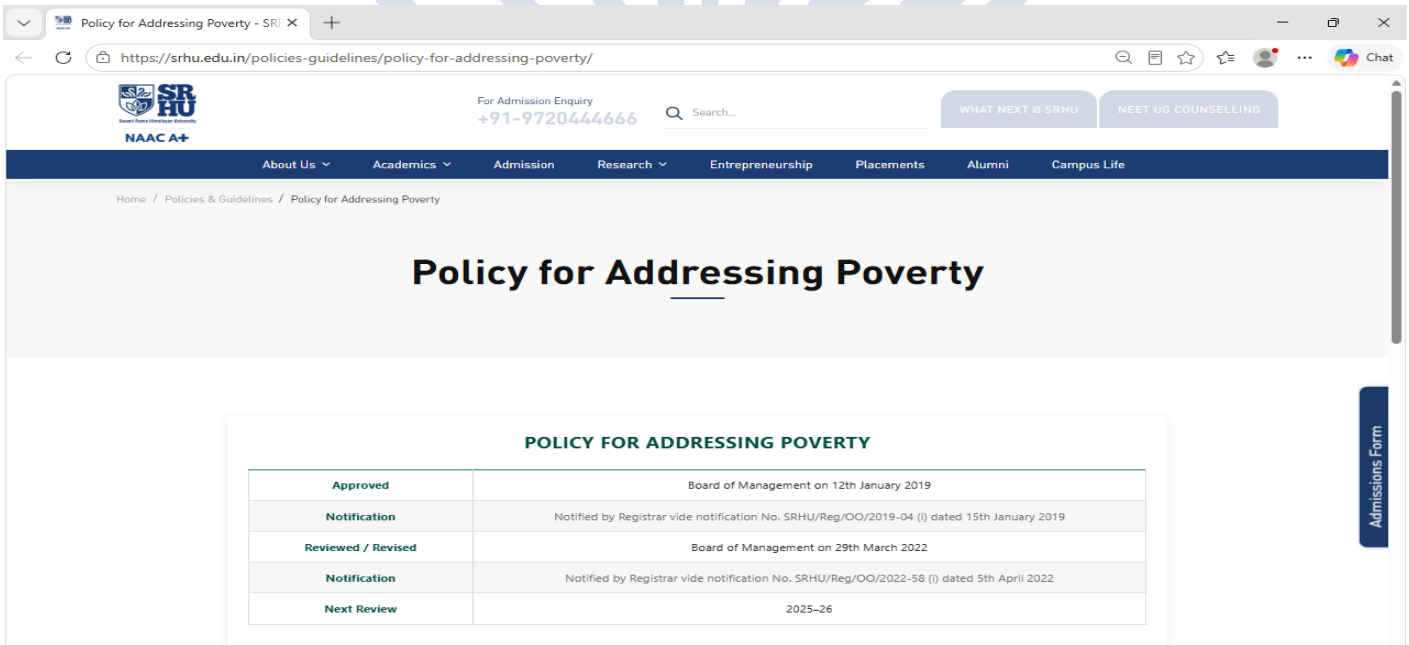
The University also maintains hostel mess and cafeteria facilities at subsidised rates that provide students with regular access to safe, hygienic and nutritious meals. The food quality, hygiene, storage, handling and sanitation are routinely monitored at various facilities.

Particulars	Status	Details
Provision of intervention	Yes	• Policy for Addressing Poverty • Subsidised food outlets • The Food Project (Student-run pre-start-up incubated at SRHU)
Evidence provided	Yes	• Screenshots of the Policy • Images of the food outlets/ cafeteria • Image of The Food Project
Is the evidence provided public	YEs	• The policies are available on the university website • URL: https://srhu.edu.in/policies-guidelines/policy-for-addressing-poverty/

Evidences

Evidence 1

Policy for Addressing Poverty



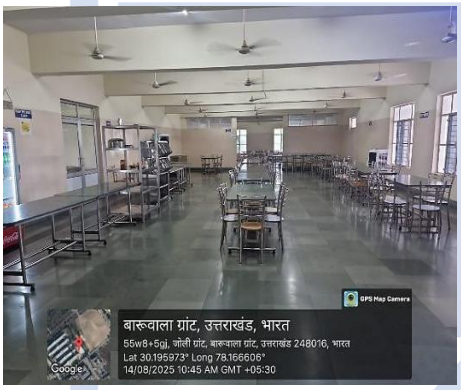
Evidence 2

Food outlets/ cafeteria**:** Canteens at different places on the campus











Evidence 3

The Food Project (student-run pre-startup incubated at SRHU)



2.3.3 Sustainable food choices on campus

SRHU promotes sustainable food choices through its campus food system and institutional food policies. The University provides food services through multiple cafeterias, canteens and food outlets across the campus, with an emphasis on fresh and locally sourced ingredients. The University also promotes seasonal and plant-based food choices and sustainable food practices across campus dining facilities.

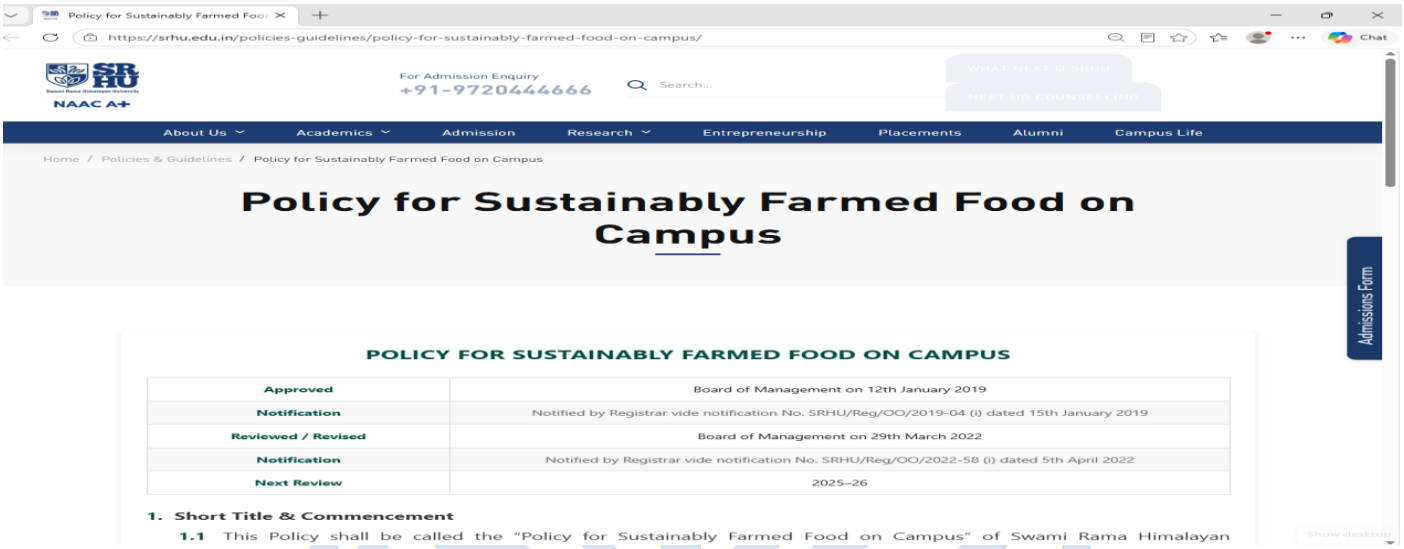
The **Policy for Sustainably Farmed Food on Campus** applies to all food outlets, cafeterias, dining halls, catering services and vending operations on campus. The policy promotes locally sourced and seasonal produce and requires vegetarian and vegan options to be offered at all campus dining outlets daily. It also promotes sustainable procurement, responsible food-service practices and reduction of food waste.

The student-led **Food Project,** incubated at SRHU's Himalayan Centre for Innovation and Entrepreneurship, further supports healthy food provision on campus and procures fresh vegetables, fruits and other ingredients directly from local farmers.

Particulars	Status	Details
Existence of choices	Yes	• Policy for Sustainably Farmed Food on Campus • Policy for Ethical Sourcing of Food and Supplies • Various food outlets available on the SRHU campus • Hostel Food menu
Evidence provided	Yes	• Screenshots: Policy for Sustainably Farmed Food on Campus • Screenshots: Policy for Ethical Sourcing of Food and Supplies • Images of Various food outlets available on the SRHU campus • Screenshots: Hostel Food menu
Is the evidence provided public	Yes	• The policies are available on the university website • URL 01: https://srhu.edu.in/policies-guidelines/policy-for-sustainably-farmed-food-on-campus/ • URL 02 : https://srhu.edu.in/policies-guidelines/policy-for-ethical-sourcing-of-food-and-supplies/ • URL 03 : https://srhu.edu.in/sdg-social-impact/ • URL 04: https://srhu.edu.in/sdg-social-impact/mess-menu/

Evidences

Evidence 01
Policy for Sustainably Farmed Food on Campus



Evidence 02
Policy for Ethical Sourcing of Food and Supplies

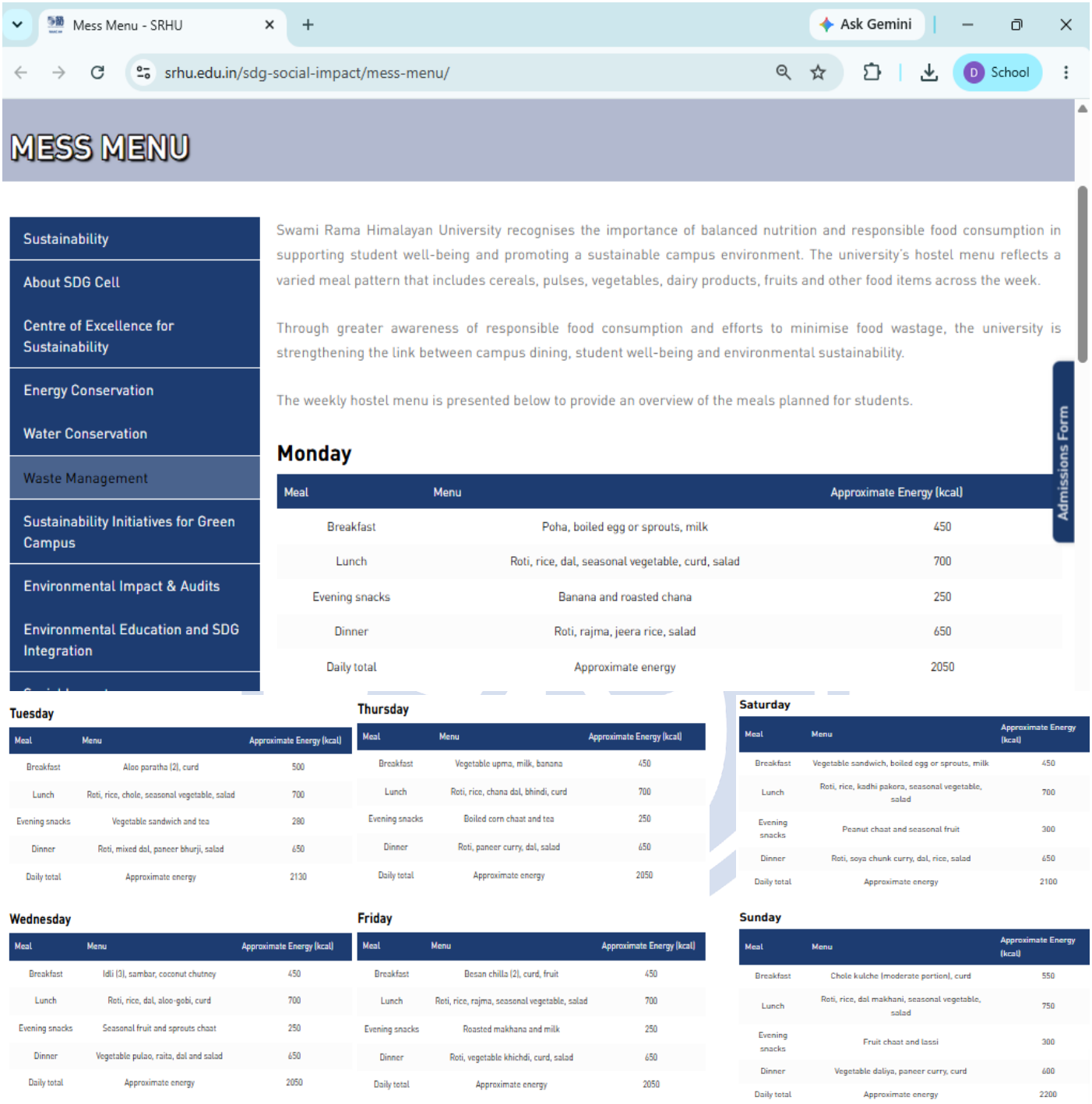


Evidence 03

Various food outlets available on the SRHU campus



Evidence 04
Hostel Food menu



2.3.4 Healthy and affordable food choices

SRHU provides healthy, affordable and accessible food options for students through its hostels, cafeterias, canteens and other campus food outlets. The University's published Social Impact information states that food facilities provide nutritious meal options at **subsidised and reasonable prices**, catering to varied dietary preferences and needs. Fresh and locally sourced ingredients are emphasised, while several outlets provide hygienic beverages and light meals to support healthier food choices.

Food facilities include the main cafeterias and canteens, Nescafé outlets, the café near the Himalayan College of Nursing, So Comida cafeteria, coffee shops at the School of Science and Technology, Himalayan Institute of Medical Sciences and Aanchal Café. SRHU also provides a weekly hostel menu, demonstrating planned provision of meals for resident students.

There is a provision of subsidised and nutritionally balanced meals in hostels and campus canteens, with hostel dining systems supervised by student committees and wardens to maintain food quality, hygiene and affordability.

There is regular monitoring of cleanliness, food handling, storage, hygiene and the use of fresh and quality ingredients, supporting the provision of safe and nutritious meals to students.

Particulars	Status	Details
Existence of choices	Yes	• Policy for Ethical Sourcing of Food and Supplies • Various food outlets • Hostel Food menu
Evidence provided	Yes	• Screenshots of the policy • Images of food outlets • Screenshots: Hostel Food menu
Is the evidence provided public	Yes	• The policies are available on the university website • URL 01: https://srhu.edu.in/policies-guidelines/policy-for-ethical-sourcing-of-food-and-supplies/ • URL 02: https://srhu.edu.in/sdg-social-impact/ • URL 03: https://srhu.edu.in/wp-content/uploads/2026/03/MESS-AND-CANTEEN-NEW.pdf

Evidences

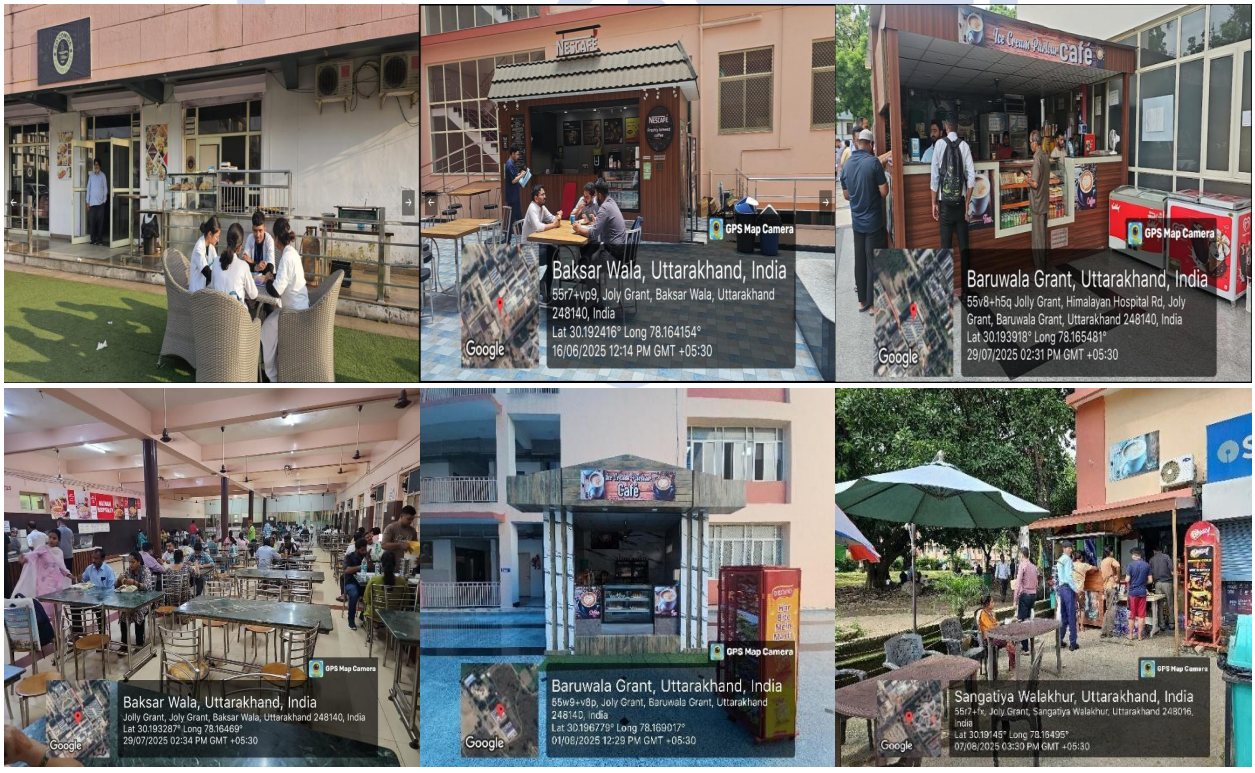
Evidence 01

Policy for Ethical Sourcing of Food and Supplies



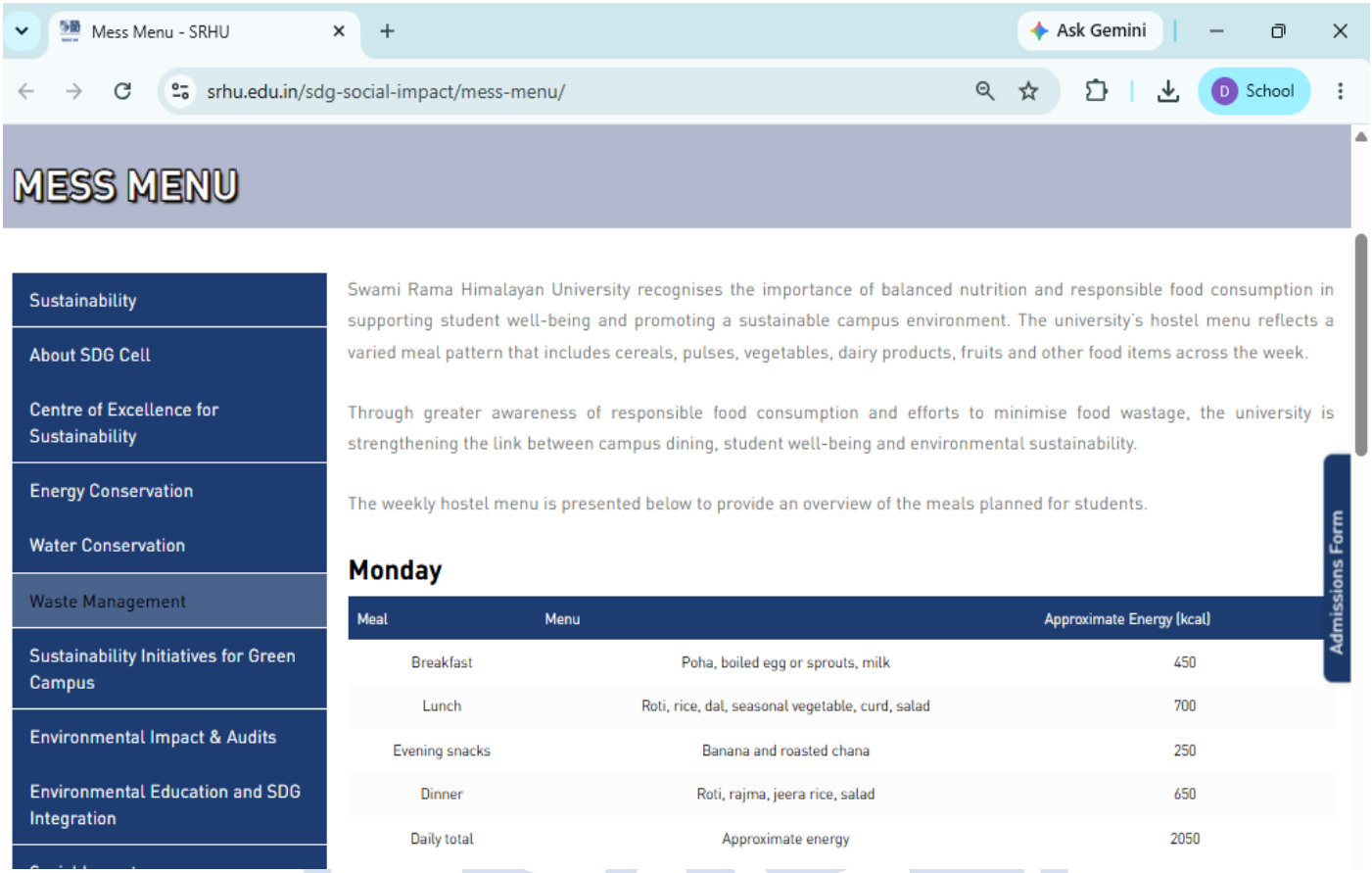
Evidence 02

Various food outlets available on the SRHU campus



Evidence 03

Hostel Food menu



MESS MENU

- Sustainability
- About SDG Cell
- Centre of Excellence for Sustainability
- Energy Conservation
- Water Conservation
- Waste Management
- Sustainability Initiatives for Green Campus
- Environmental Impact & Audits
- Environmental Education and SDG Integration

Swami Rama Himalayan University recognises the importance of balanced nutrition and responsible food consumption in supporting student well-being and promoting a sustainable campus environment. The university's hostel menu reflects a varied meal pattern that includes cereals, pulses, vegetables, dairy products, fruits and other food items across the week.

Through greater awareness of responsible food consumption and efforts to minimise food wastage, the university is strengthening the link between campus dining, student well-being and environmental sustainability.

The weekly hostel menu is presented below to provide an overview of the meals planned for students.

Admissions Form

Monday

Meal	Menu	Approximate Energy (kcal)
Breakfast	Poha, boiled egg or sprouts, milk	450
Lunch	Roti, rice, dal, seasonal vegetable, curd, salad	700
Evening snacks	Banana and roasted chana	250
Dinner	Roti, rajma, jeera rice, salad	650
Daily total	Approximate energy	2050

Tuesday

Meal	Menu	Approximate Energy (kcal)
Breakfast	Aloo paratha (2), curd	500
Lunch	Roti, rice, chole, seasonal vegetable, salad	700
Evening snacks	Vegetable sandwich and tea	280
Dinner	Roti, mixed dal, paneer bhurji, salad	650
Daily total	Approximate energy	2130

Wednesday

Meal	Menu	Approximate Energy (kcal)
Breakfast	Idli (3), sambar, coconut chutney	450
Lunch	Roti, rice, dal, aloo-gobi, curd	700
Evening snacks	Seasonal fruit and sprouts chaat	250
Dinner	Vegetable pulao, raita, dal and salad	650
Daily total	Approximate energy	2050

Thursday

Meal	Menu	Approximate Energy (kcal)
Breakfast	Vegetable upma, milk, banana	450
Lunch	Roti, rice, chana dal, bhindi, curd	700
Evening snacks	Boiled corn chaat and tea	250
Dinner	Roti, paneer curry, dal, salad	650
Daily total	Approximate energy	2050

Friday

Meal	Menu	Approximate Energy (kcal)
Breakfast	Besan chilla (2), curd, fruit	450
Lunch	Roti, rice, rajma, seasonal vegetable, salad	700
Evening snacks	Roasted makhana and milk	250
Dinner	Roti, vegetable khichdi, curd, salad	650
Daily total	Approximate energy	2050

Saturday

Meal	Menu	Approximate Energy (kcal)
Breakfast	Vegetable sandwich, boiled egg or sprouts, milk	450
Lunch	Roti, rice, kadhi pakora, seasonal vegetable, salad	700
Evening snacks	Peanut chaat and seasonal fruit	300
Dinner	Roti, soya chunk curry, dal, rice, salad	650
Daily total	Approximate energy	2100

Sunday

Meal	Menu	Approximate Energy (kcal)
Breakfast	Chole kulche (moderate portion), curd	550
Lunch	Roti, rice, dal makhani, seasonal vegetable, salad	750
Evening snacks	Fruit chaat and lassi	300
Dinner	Vegetable daliya, paneer curry, curd	600
Daily total	Approximate energy	2200

Average Daily Energy **2,090 kcal**

Weekly Energy per Student **14,630 kcal**

Note: The quantities and calorie values provided are approximate and based on standard servings. Students are welcome to take additional portions according to their appetite and individual needs. Actual calorie intake may vary depending on portion size and food consumption.

2.3.5 Staff hunger interventions

SRHU provides access to affordable and hygienic meals for faculty and staff through its central canteen, faculty cafeterias and hospital food-service facilities. There is provision of subsidised meals and low-cost meal packages for faculty and non-teaching staff. SRHU also maintains an Employee Welfare Fund to support employees experiencing financial hardship or temporary food insecurity, including circumstances associated with medical emergencies.

The University further supports staff well-being through health check-ups and nutrition awareness activities, contributing to a supportive and food-secure workplace environment.



'Nutritious And Balanced Diet Is The Foundation Of A Healthy Life: Dr Vijay Dhasmana'

National Nutrition Week Celebrated at Himalayan Hospital



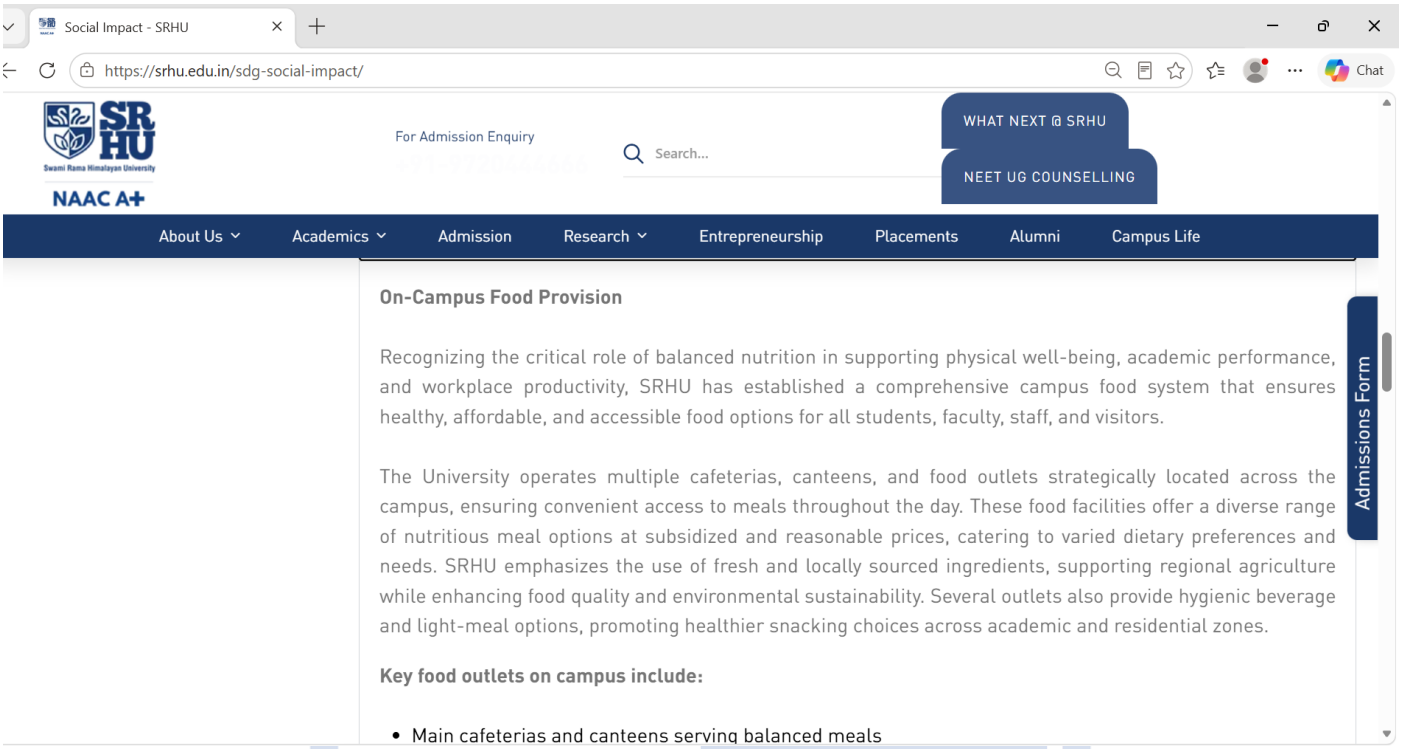
Awareness Campaign conducted by Himalayan Hospital during World Breastfeeding Week

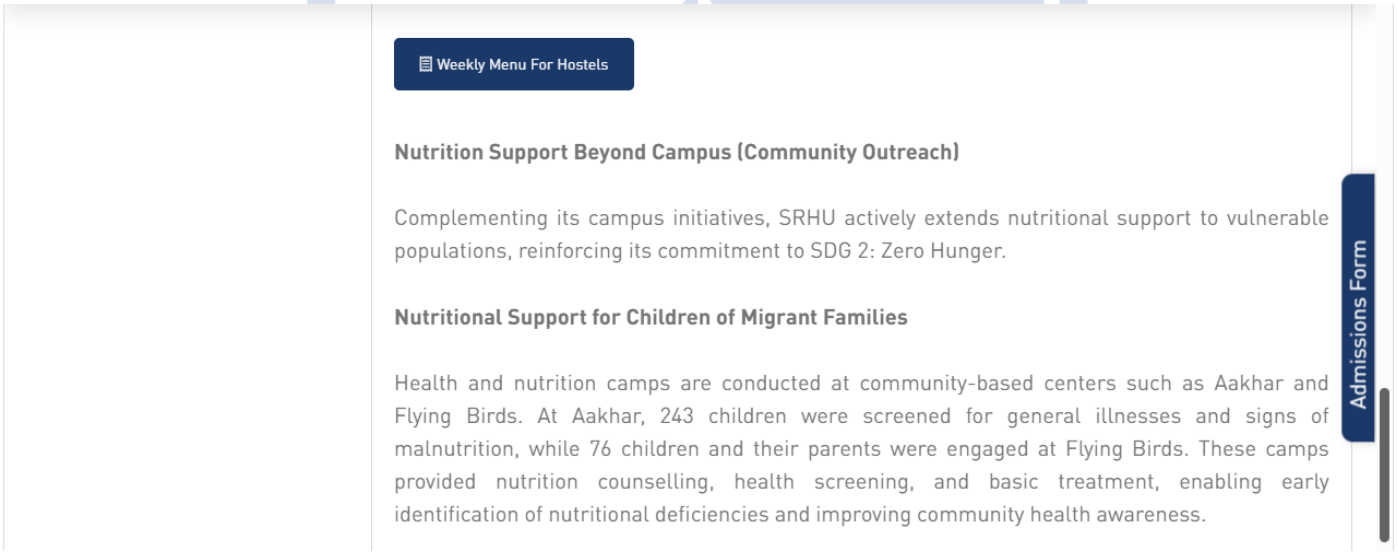
World Breastfeeding Week Awareness Campaign

Particulars	Status	Details
Provision of intervention	Yes	On-campus food provision
Evidence provided	Yes	Screenshot of webpage provided
Is the evidence provided public	Yes	URL: https://srhu.edu.in/sdg-social-impact/

Evidence

On-campus food provision





2.4 Proportion of graduates in agriculture and aquaculture including sustainability aspects

2.4.1 Indicator: Proportion of graduates in agriculture and aquaculture

The university does not currently offer programmes in agriculture or aquaculture.

2.5 National hunger

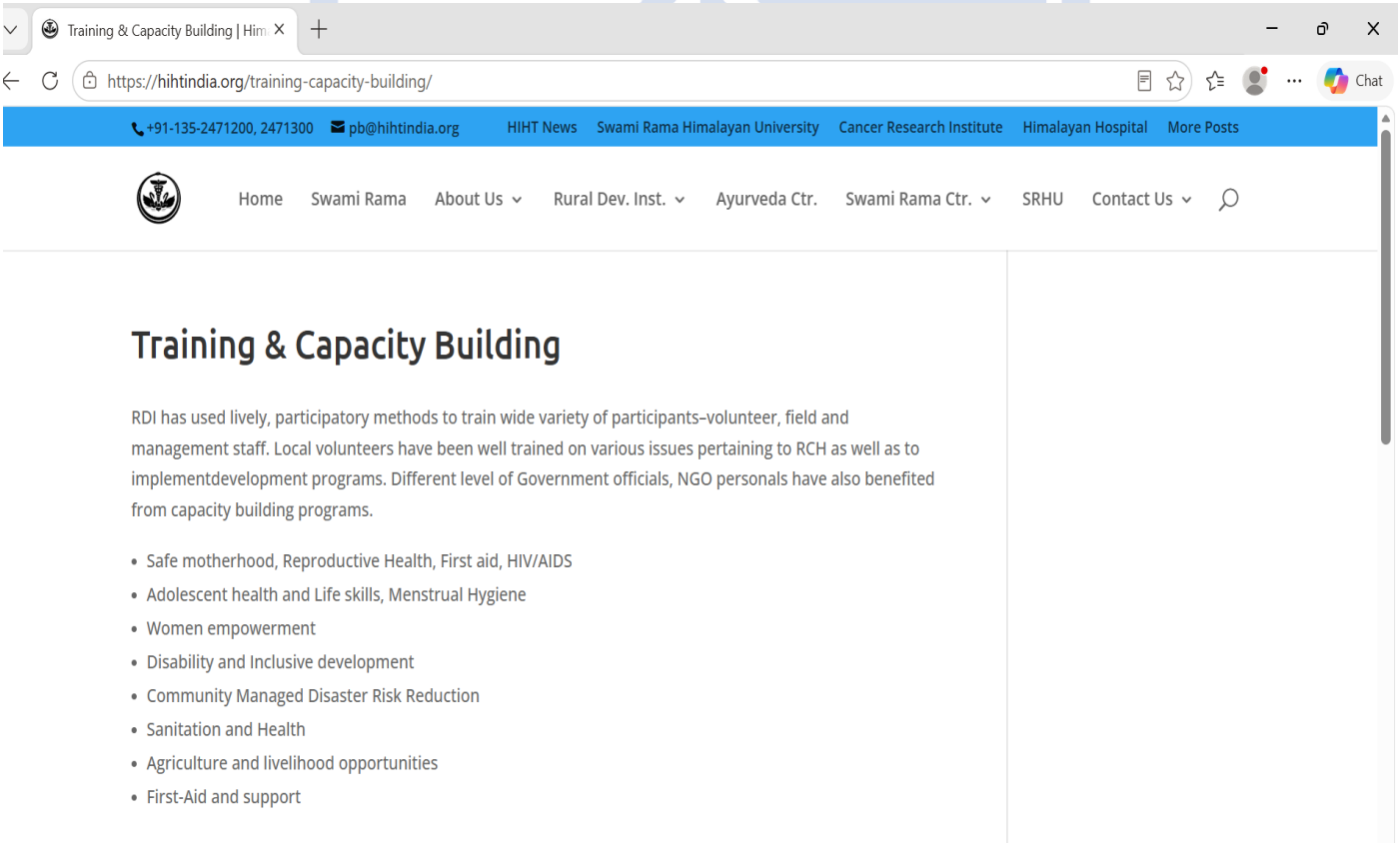
2.5.1 Access to food security knowledge

Providing local farmers with direct access to food security knowledge and technology bridges the gap between academic innovation and grassroots implementation. Empowering marginalised agricultural producers with critical information on climate-resilient crops and efficient techniques directly boosts food production, stabilises rural incomes, and builds community resilience against regional hunger and poverty.

Mountain farming communities face climate risks, wildlife crop disruption, and soil erosion that threaten food security. Through the Comprehensive Community Development Programme (CCDP), Swami Rama Himalayan University provides direct agricultural training to farmers in mountain areas such as Toli and Malethi in Pauri Garhwal. Agronomists train local farmers to cultivate high-value, climate-resilient cash crops including rosemary, black cardamom, ginger, turmeric, garlic, and chillies, alongside traditional drought-resistant millets such as Jhangora, Manduwa, and Jakhiya. Expanding its regional engagement, Swami Rama Himalayan University's Sustainable Agriculture & Food Security Club actively participated in Vasantotsava 2025 at Raj Bhawan, using a dedicated exhibition stall to showcase initiatives in sustainable agriculture.

Particulars	Status	Details
Provision of access	Yes	• Training and capacity building
Evidence provided	Yes	• Screenshot: Training and capacity building
Is the evidence provided public	Yes	• URL 01: https://hihtindia.org/training-capacity-building/

Evidence



2.5.2 Events for local farmers and food producers

Organising events that connect local farmers facilitates critical knowledge transfer and strengthens regional agricultural networks. By training producers in post-harvest processing, value addition, and resource management frameworks, these networking events help reduce crop spoilage, protect against market volatility, and enhance the overall efficiency of local food supply chains systematically.

Securing agricultural supply chains requires building local processing capacity and regional water management frameworks. Swami Rama Himalayan University established a localised Value Addition Centre within the CCDP framework, where farmers are trained in sorting, processing, packaging, and branding raw agricultural produce into market-ready retail units. This post-harvest processing reduces crop spoilage and stabilises farm incomes against market price fluctuations. Concurrently, the university hosted international regional training on "Gender Equality and Social Inclusion (GESI) responsive Spring shed Management in the Hindu Kush Himalaya" from January 29 to February 1, 2025, bringing together 41 delegates to strengthen regional irrigation governance.

Particulars	Status	Details
Provision of events	Yes	• Policy for Relationships with Regional NGOs and Government • Community Outreach & Extension events via Rural Development Institute (RDI)
Evidence provided	Yes	• Screenshot: Policy for Relationships with Regional NGOs and Government • Images of Community Outreach & Extension events via Rural Development Institute (RDI)
Is the evidence provided public	Yes	• The policies and details of university facilities are available on the university website. • URL 01: https://srhu.edu.in/policies-guidelines/policy-for-relationships-with-regional-ngos-and-government/

Evidence 01

Policy for Relationships with Regional NGOs and Government



Evidence 02

Images of Community Outreach & Extension events via Rural Development Institute (RDI)

Cultivation of Turmeric, Ginger, Millets, Garlic and Chilly (under *Comprehensive Community Development Program-SRHU*



Drying and processing harvested produce at the value addition and community development centre in the Toli region, Pauri Garhwal.



Community members and farmers sorting, cleaning, and processing harvested raw turmeric/ginger produce



Value addition and packaging of ground turmeric into consumer-friendly retail packets (100g, 250g, 500g) under the local branding initiative



Ginger/turmeric crop spread out for drying inside a poly-house/greenhouse facility.



Cultivation of saplings (such as green chilli or vegetable crops) with pipeline irrigation setup in nursery beds.



Development and pit preparation on 4.374 acres (7 bighas) of reclaimed barren land brought under cultivation in the Malethi area.

2.5.3 University access to local farmers and food producers

Providing local farmers access to university facilities, technology, and advanced plant stocks directly accelerates the modernisation of sustainable farming practices. Sharing high-quality seeds, saplings, and scientific expertise allows marginalised producers to overcome environmental constraints, dramatically increasing agricultural yields and diversifying rural incomes to ensure robust, long-term local food security.

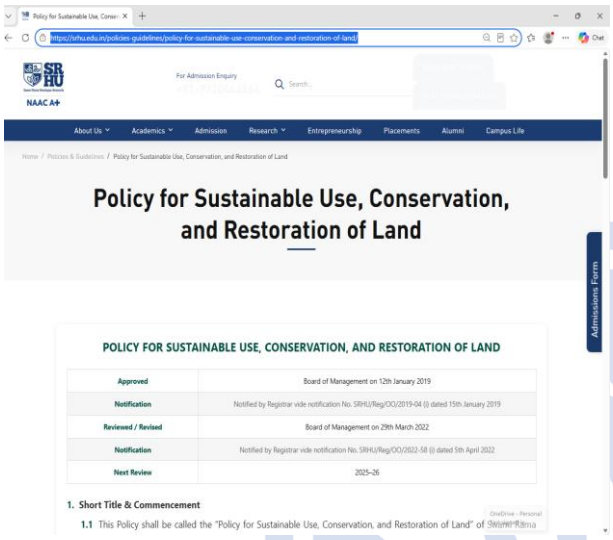
Directly providing degraded land restoration and high-quality saplings accelerates agricultural development in rural zones. During 2024-2025, the CCDP initiative restored 4.374 acres of barren land in Malethi into productive farmland, supplying farmers with high-quality seeds for onions, cabbage, cauliflower, and chillies. The university also established a pilot horticulture project by distributing 150 specialised temperate climate apple saplings to local farmers, expanding on previous successful distributions of lemon and mango saplings. In addition, the School of Biosciences provides sterile spores and technical training for mushroom cultivation, offering rural households a protein-rich crop and an additional income stream.

Particulars	Status	Details
Provision of access	Yes	• Policy for Sustainable Use, Conservation, and Restoration of Land • SRHU - Atal Community Innovation Centre - Swami Rama Himalayan University Innovation and Incubation Centre (ACIC - SIIC) • SRHU - Central Research Facilities (Plant Tissue Culture Labs)
Evidence provided	Yes	• Screenshot: Policy for Sustainable Use, Conservation, and Restoration of Land • Screenshot: SRHU - Atal Community Innovation Centre - Swami Rama Himalayan University Innovation and Incubation Centre (ACIC - SIIC) • Screenshot: SRHU - Central Research Facilities (Plant Tissue Culture Labs).
Is the evidence provided public	Yes	The policies and details of university facilities are available on the university website. • URL 01: https://srhu.edu.in/policies-guidelines/policy-for-sustainable-use-conservation-and-restoration-of-land/ • URL 02: https://srhu.edu.in/acic-siic/ • URL 03: https://srhu.edu.in/central-research-facilities/

Evidences

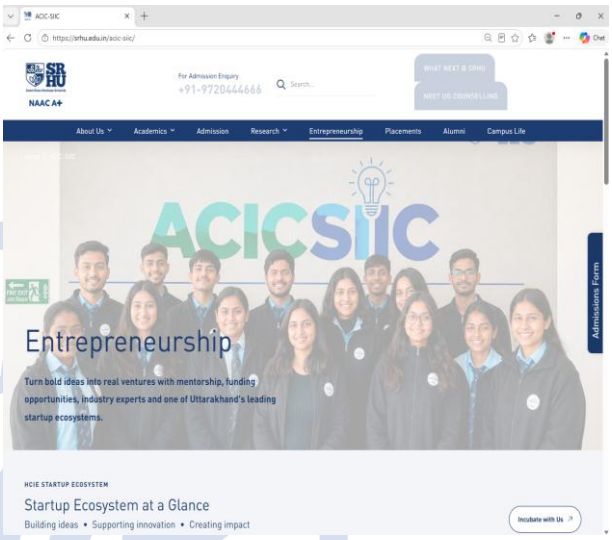
Evidence 01

Policy for Sustainable Use, Conservation, and Restoration of Land



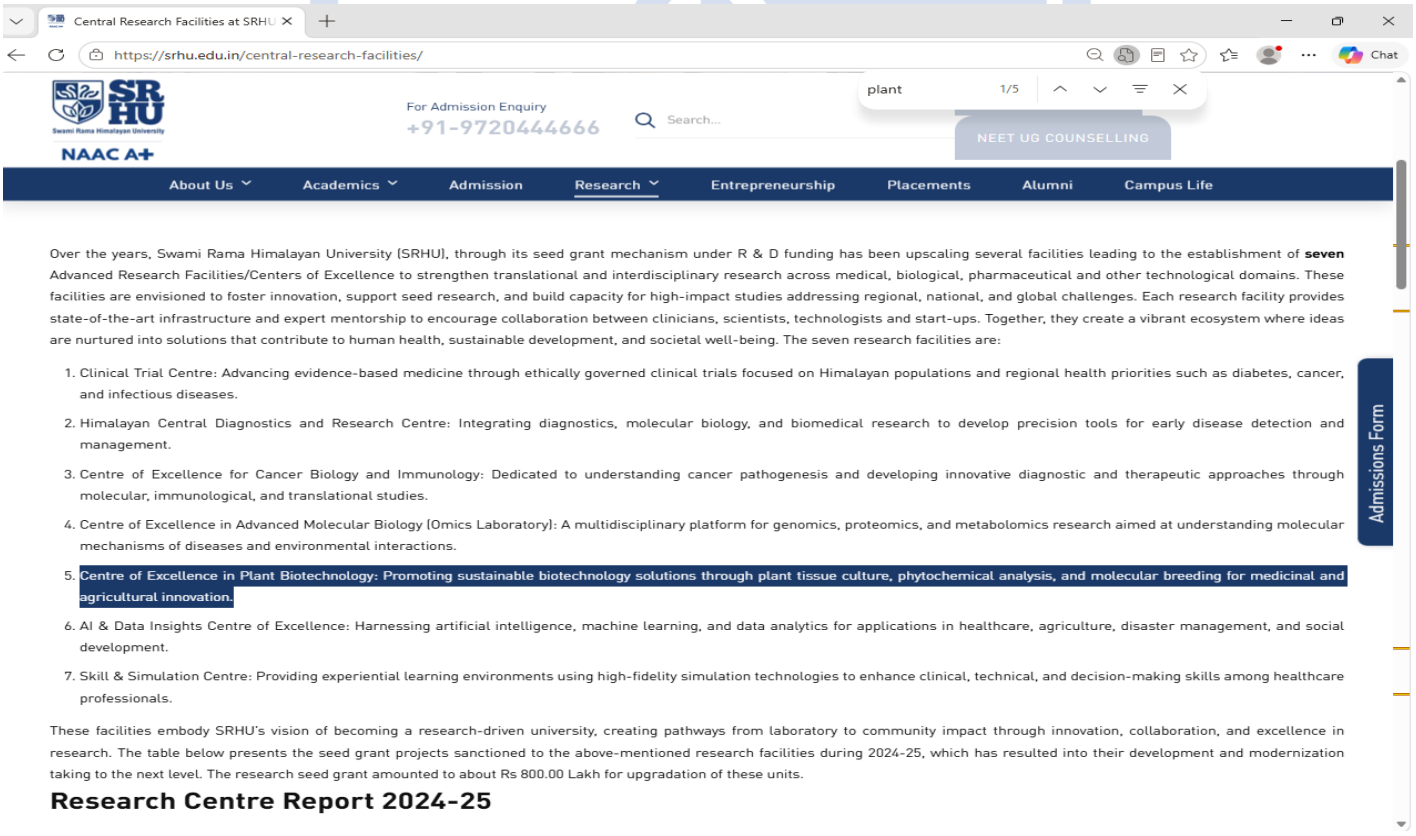
Evidence 02

SRHU - Atal Community Innovation Centre - Swami Rama Himalayan University Innovation and Incubation Centre (ACIC - SIIC)



Evidence 03

SRHU - Central Research Facilities (Plant Tissue Culture Labs)



2.5.4 Sustainable food purchases

Prioritising the purchase of products from local, sustainable sources integrates institutional supply chains directly with local agrarian economies. Implementing direct buy-back models guarantees fair markets for smallholder farmers, eliminates exploitative intermediaries, and simultaneously secures sustainable, nutritious food for clinical programs, creating a powerful dual-impact engine for regional hunger eradication.

Institutional purchasing policies can strengthen local rural economies by providing guaranteed markets for smallholder farmers. Swami Rama Himalayan University maintains a direct "Buy-Back Model," purchasing cash crops and millets directly from CCDP farmers. The university purchased a total of 20.35 quintals (2,035 kilograms) of turmeric, garlic, chilli, ragi, and ginger at fair market prices, bypassing commercial intermediaries.

Maternal Nutrition Outreach: These purchased millets are supplied to local Women's Self-Help Groups (SHGs) to manufacture nutrient-dense Millet Laddoos. The university distributes these free of charge to pregnant and lactating women, with 1,985 pregnant women participating during Village Health, Sanitation and Nutrition Days (VHSNDs), simultaneously driving local economic growth and maternal nutrition.

Particulars	Status	Details
Existence of prioritisation	Yes	• Policy for Ethical Sourcing of Food and Supplies • Purchase Policy • University events.
Evidence provided	Yes	• Screenshot: Policy for Ethical Sourcing of Food and Supplies • Screenshot: Purchase Policy • Images: Clinical Malnutrition Interventions. • News article: Nepalese Mayoral Delegation Study Visit on Spring Shed & Water Conservation • News article: ASHA Certificate Course Convocation
Is the evidence provided public	Yes	The policies are available on the university website • URL 01: https://srhu.edu.in/policies-guidelines/policy-for-ethical-sourcing-of-food-and-supplies/ • URL 02: https://srhu.edu.in/policies-guidelines/purchase-policy/ • University events are regularly featured in regional and national newspapers.

Evidence 01

Policy for Ethical Sourcing of Food and Supplies



Policy for Ethical Sourcing of Food

https://srhu.edu.in/policies-guidelines/policy-for-ethical-sourcing-of-food-and-supplies/

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Policy for Ethical Sourcing of Food and Supplies

Admissions Form

POLICY FOR ETHICAL SOURCING OF FOOD AND SUPPLIES

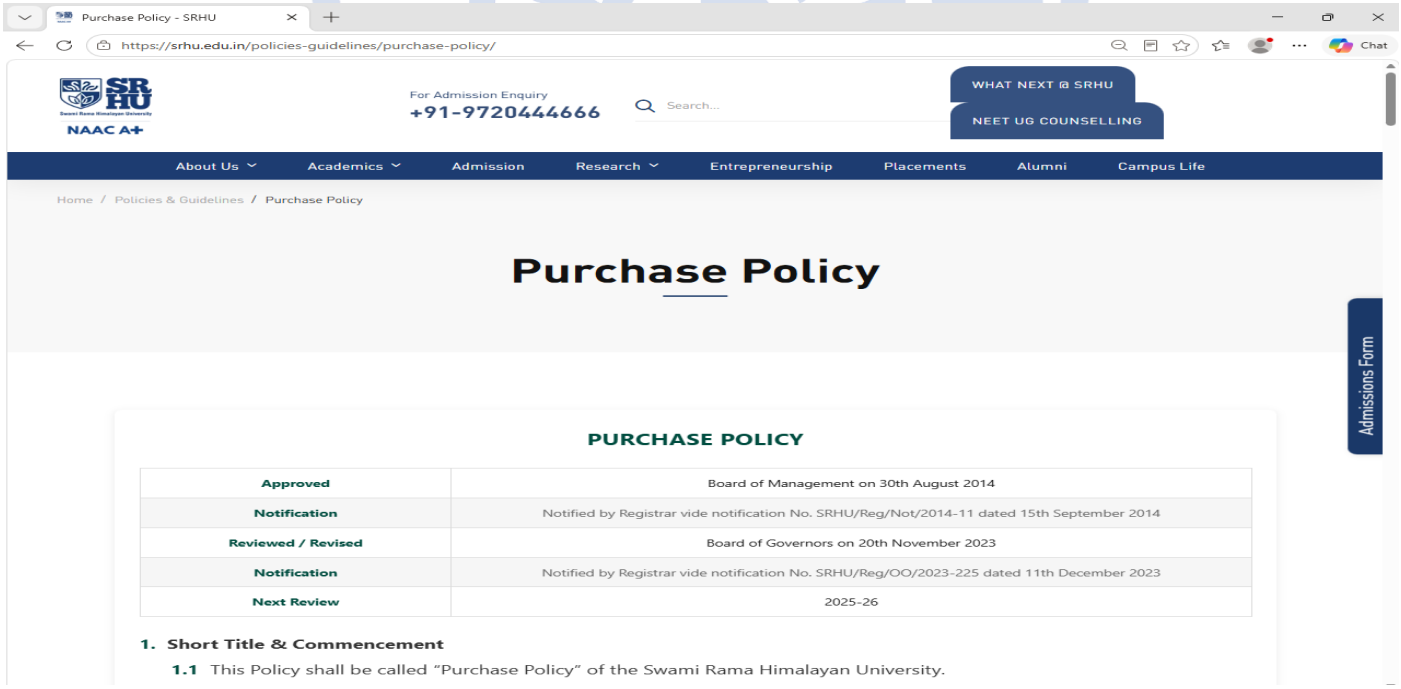
Approved	Board of Management on 29th March 2022
Notification	Notified by Registrar vide notification No. SRHU/Reg/OO/2022-58 (i) dated 05th April 2022
Next Review	2025-26

1. Short Title & Commencement

1.1 This Policy shall be called the "**Policy for Ethical Sourcing of Food and Supplies**" of Swami Rama Himalayan University (SRHU).

Evidence 02

Purchase Policy



Purchase Policy - SRHU

https://srhu.edu.in/policies-guidelines/purchase-policy/

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Purchase Policy

Admissions Form

PURCHASE POLICY

Approved	Board of Management on 30th August 2014
Notification	Notified by Registrar vide notification No. SRHU/Reg/Not/2014-11 dated 15th September 2014
Reviewed / Revised	Board of Governors on 20th November 2023
Notification	Notified by Registrar vide notification No. SRHU/Reg/OO/2023-225 dated 11th December 2023
Next Review	2025-26

1. Short Title & Commencement

1.1 This Policy shall be called "Purchase Policy" of the Swami Rama Himalayan University.

Evidence 03

Clinical Malnutrition Interventions: A Tuberculosis (TB) Elimination initiative distributed 100 high-protein, calorie-dense nutrition kits to TB patients in Oct 2024. Furthermore, 3,204 pregnant and lactating women were followed up through home visits, and 238 nutrition kits were provided to severely anaemic high-risk pregnant women, effectively elevating haemoglobin levels.



238 nutrition kits were provided to severely anaemic high-risk pregnant women



3,204 pregnant and lactating women were followed up through home visits



100 high-protein, calorie-dense nutrition kits

SDG 02 Champion

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