AMITY UNIVERSITY
RAJASTHAN

SDG 2: Zero Hunger

1. Commitment and Institutional Framework

Amity University Rajasthan (AUR) recognizes Zero Hunger as an essential component of sustainable human development and is committed to contributing towards food security, improved nutrition and sustainable food systems through education, research, innovation and community engagement. In alignment with the United Nations Sustainable Development Goals, particularly SDG 2, the University promotes awareness of balanced nutrition, food safety, sustainable food production and agricultural innovation.

Various academic units, including the **Amity Institute of Biotechnology**, **Amity Institute of Microbial Technology, Amity School of Hospitality,** and **Amity School of Applied Sciences,** contribute to food-related education, research and innovation. Their academic and research activities address important aspects of food safety, food processing, preservation, nutritional quality, and sustainable agricultural practices.

Faculty members, researchers, and students of the University actively engage in knowledge generation and innovation relevant to food and agricultural sustainability. Research contributions include the application of advanced technologies for food contaminant detection and the use of nanotechnology to address environmental stress in crops. Through academic activities, innovation, and community outreach, AUR seeks to promote nutritional awareness, food quality, and sustainable approaches to food security.

2. Institutional Actions and Policies

AUR undertakes academic, research, and community-oriented initiatives contributing to the objectives of SDG 2 through the following activities:

- **Food Science and Technology Education:** Academic activities, expert lectures and student engagement initiatives promote understanding of food production, processing, preservation, food safety and nutritional quality.
- **Research and Innovation in Food Safety:** Faculty research addresses emerging technologies, including AI-powered, nano-enabled and biosensor-based approaches

for rapid detection of food contaminants, contributing to improved food quality and safety.

- **Sustainable Agricultural Research:** Research on the application of silicon nanoparticles for alleviation of fluoride stress in *Avena sativa* reflects the University's contribution to plant-stress research and agricultural sustainability.
- **Nutrition Awareness and Community Outreach:** Through NSS and Unnat Bharat Abhiyan, the University undertakes community-level initiatives to promote healthy eating habits, balanced nutrition and improved diet practices in nearby villages.
- **Food Technology & Student Innovation:** Expert interactions, food product exhibitions and idea-pitching competitions encourage students to explore innovative approaches to food production, preservation, shelf-life extension, and nutritional quality.
- **Promotion of Healthy and Sustainable Food Practices:** The University encourages awareness of food quality, nutritional value, traditional food practices and responsible approaches to food utilization through academic and student engagement activities.

3. Key Events and Activities (2025–2026)

A. Nutrition and community food awareness

The NSS Cell of Amity University Rajasthan organised a *Poshan Pakwan Awareness Camp* at Jaichandpura village on 24 April 2026, involving 35 student volunteers under the guidance of Dr. Manoj Kumar and Dr. Pallavi Mishra. The programme promoted healthy eating habits, balanced nutrition and improved dietary practices among local residents, extending nutrition awareness to the rural community.





Poshan Pakhwada – Nutrition and Hygiene Awareness

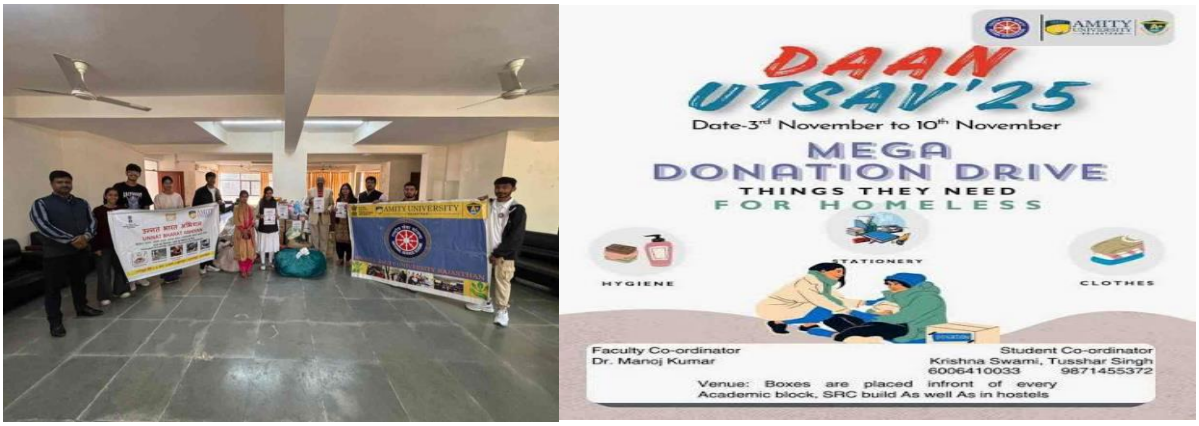
The NSS Cell organised a *Poshan Pakhwada* awareness programme at Government Senior Secondary School, Jaichandpura, Rajasthan. NSS volunteers engaged school students and local villagers in promoting nutrition, personal hygiene and healthy dietary practices, contributing to community awareness and well-being.



B. Food security and community support

Daan Utsav – Donation Drive, 25 November 2025

The NSS Cell of Amity University Rajasthan organised a Daan Utsav Donation Drive, collecting 45 donation boxes containing essential items. During Phase I, the collected items were distributed among needy families in Buran Pura, Baal Sambhal and a slum/construction settlement behind University campus. NSS volunteers also interacted with local families to understand their needs and identify areas requiring further community support. The initiative reflected the University's commitment to social responsibility and community welfare.



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C. Food science and technology education

On the occasion of **World Food Day 2025**, Microbiology, Biotechnology, Hospitality and MBSI- departments of University jointly organized a guest lecture on *"**Food Technologies for Defence and Space Missions**"* on 13 October 2025 at the AUR Campus. The session was delivered by Dr. O. P. Chauhan, Scientist 'G' and Group Head, Defence Institute of Bio-Defence Technologies, DRDO, Ministry of Defence, Government of India. Around 200 students and 25 faculty members participated. The programme also featured a Food Product Exhibition involving 17 teams and an Idea Pitching Competition involving 8 teams. The lecture highlighted emerging technologies in food production, preservation and shelf-life extension while maintaining nutritional quality.





2. Research and publications

Research contribution	SDG 2 relevance
• **Emerging Technologies in Food Safety: AI-Powered, Nano-enabled, and Biosensor-Based Strategies for Rapid Contaminant Detection** – co-authored by Prof. Vinay Sharma and Prof. Amit Jain; published in *Food Analytical Methods*. July 2025, 18(9): 2010-2024. DOI: 10.1007/s12161-025-02844-5	Food safety, contamination detection and quality assurance.
• **Characterization and Application of Silicon Nanoparticles for Alleviation of Fluoride Stress in Avena sativa** – published in *Journal of Soil Science and Plant Nutrition*.25(3):8103-8120 DOI: 10.1007/s42729-025-02658-8	Research on reducing environmental stress affecting an agricultural crop.



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