MADAN BHANDARI UNIVERSITY OF SCIENCE AND TECHNOLOGY

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WELCOME TO OUR

MBUST Insights

Contributors of this Newsletter Issue:
Prof. Dr. Rajendra Dhoj Joshi, Assoc. Prof. Padma Sunder Joshi, Dr. Sabina Shrestha, and students

MESSAGE FROM THE PRESIDENT

By- Prof. Dr. Rajendra Dhoj Joshi

On behalf of Madan Bhandari University of Science and Technology (MBUST) let me express best wishes to all well-wishers and stakeholders on the occasion of Happy New Year 2026. The University enrolled first students in December 2023. Within two years the University has developed a distinct identity of an institution which is able to deliver. This has become possible because of the overwhelming moral and material support from well-wishers and stakeholders. We would like to express our deep gratitude to all well-wishers and stakeholders.

The President

(Continued on Page 2)

Quick Stories

Dr. Sarbesh Das Dangol (MBUST), Dr. Jarina Joshi (Tribhuvan University), and Dr. Jyoti Maharjan (Nepal Academy of Science and Technology) during a meeting with John Cordts, Regulator at the United States Department of Agriculture (USDA), and his wife, Director at the USDA, in Lalitpur, Nepal.

Dr. Kishor Timisina presenting on the research activities of MBUST in bamboo structures at the Bamboo Structures Design Manual Launching Program.

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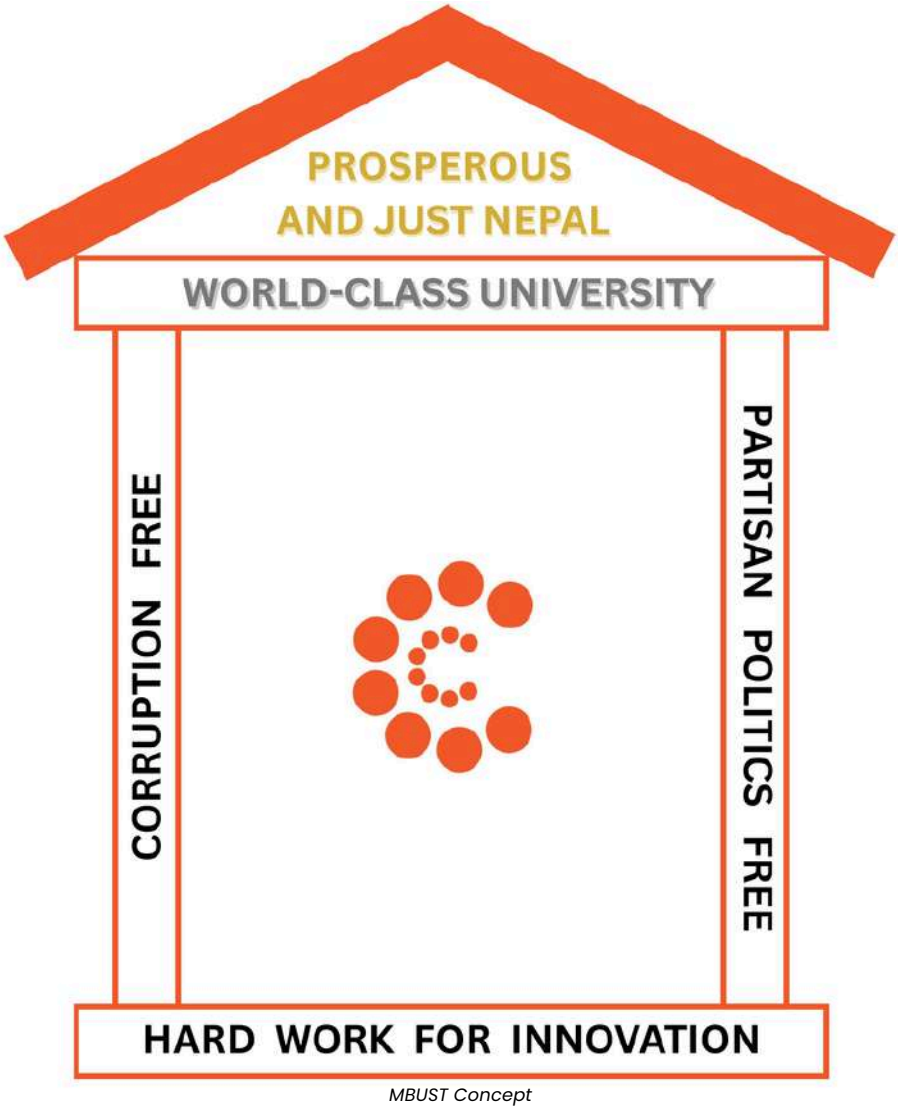
Many people wonder how the achievements made by MBUST became possible and if these achievements are sustainable. In this message, I am sharing the illustration of the conceptual framework for the operation of MBUST, which made these achievements possible, and why these achievements should be sustainable.

The foundation for all these achievements is the hard work for innovation by the MBUST team – staff, students, well-wishers, and stakeholders. The enabling environment for sustained hard work is being created by two pillars representing the values of MBUST – a corruption-free and partisan politics-free environment. The foundation, together with these two pillars support the ***world-class university***. The world-class MBUST, in turn, supports a ***prosperous and just Nepal***.

The achievements made by MBUST will be sustainable as long as the two value pillars stand strong. The Madan Bhandari University of Science and Technology Act, 2079 (2022 CE) safeguards these pillars by disconnecting the University from partisan politics. The university management, staff and students steadfast committed to these value pillars, and the strong support of well-wishers and stakeholders, who see MBUST as a ***beacon of hope***, are formidableguarantors for ensuring the integrity of the MBUST concept. Therefore, it should be possible to sustain MBUST provided the MBUST team remains vigilant.



MBUST Concept

Message From the Vice President

Happy New Year 2026

By- Assoc. Prof. Padma Sunder Joshi

Vice-President (Admin and Finance)

As we welcome the New Year, I extend my warmest greetings and sincere appreciation to our entire university community. May this year bring renewed energy, intellectual curiosity, and collaborative spirit as we advance science and technology for the benefit of society. The changing political environment in Nepal is demanding more from us to build the economy. Let's work for our mission of prosperous and just Nepal. Together, through dedication, integrity, and innovation, let us strengthen our academic excellence, support one another, and work toward a future that is just, sustainable, and prosperous. I wish you all a productive and fulfilling New Year 2026.

Charting the Path

Becoming an Organic Inspector Through Scientific Training

By- Birendra Mahara

With the aim of becoming certified organic inspectors for Nepal's organic products, students from MBUST participated in a comprehensive five-day Training of Organic Inspectors for Production and Processing. This training was held from December 23 to 27, 2025, in Bharatpur-15, Chitwan, Nepal. The program was organized by the Organic Learning Center in collaboration with Organic Certification Nepal (OCN). Throughout the five days, the training was truly mesmerizing and greatly enriching thanks to the expertise of the OCN team, including Chandra Prasad Adhikari, the founder president of the Organic Learning Center, and Mr. Basant Ranabhat, the current president of OCN Nepal and Organic Learning Center, Nepal. Their unique approach to teaching, which connected organic farming principles with the certification process, facilitated deeper learning and engagement. Additionally, the program included visits to various organic farms in Chitwan, providing hands-on experience in assessing organic practices and gathering insights that would be invaluable for certifying these farms. This real-world exposure was instrumental in bridging the gap between theoretical knowledge and practical application in organic certification.

The training encompassed a wide array of essential topics, including:

1. Concept of Organic Inspection, Certification, and Accreditation:
Participants were introduced to the fundamental principles and frameworks governing organic agriculture, including the significance of certification and the role of accreditation in ensuring compliance with established organic standards.

2. Internal Control System (ICS):
Emphasis was placed on understanding the internal control systems required for group certification, enabling participants to learn how to maintain consistent quality across multiple producers.

3. Steps and Procedures for Inspection in a Group Certification System:
The training outlined the systematic approach to conducting inspections within a group framework, highlighting the importance of collaboration among farmers.

4. Inspection of Production Farms and Processing Units:
Practical sessions provided insights into the best practices for evaluating both production farms and processing facilities to ensure they adhere to organic standards.

5. Introduction to IFOAM Basic Standards (IBS) and Asian Regional Organic Standard (AROS): Participants gained knowledge of international standards as set by the International Federation of Organic Agriculture Movements (IFOAM) and region-specific guidelines that govern organic practices.

6. Nepalese Standards and Guidelines for Organic Production and Processing:
A thorough overview of local standards was provided, enabling participants to understand how they align with global expectations.

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7. Risk Assessment, Traceability, and Inspection Report Preparation:
The training emphasized the importance of risk management and traceability in organic farming, along with practical guidance on preparing detailed inspection reports.

Most of the participants were from MBUST. Out of the 23 attendees, 19 represented MBUST, while the others came from various institutions, all eager to learn about organic farming. The whole experience was enriching, filled with knowledge, practical insights, and lasting memories. Special thanks go to Organic Certification Nepal (OCN) and the Organic Learning Center, Nepal, for providing such a valuable experience. I strongly encourage similar training programs aimed at farmers. It would be great if trainers and OCN Nepal could organize these types of sessions more frequently.

Some glimpses during different days of training

NaYAN's NiCHOD 2025

Empowering Science Communication

By- Dr. Sabina Shrestha

December 5-6, 2025 - The National Young Academy of Nepal (NaYAN) announced the winners of the 4th episode of NiCHOD 2025 during its 5th Annual Conference & General Meeting at National College, Dhumbaharahi, Kathmandu. NiCHOD challenged undergraduate and graduate students across Nepal to present their thesis research in just three minutes using accessible language for a general audience.

Dr. Kamal Raj Gosai of NaYAN provided an overview of the conference highlights. The program featured presentations on "AI for Science & Society." Speakers included Dr. Yagya Raj Pandey (Kathmandu University) on "The Rise of AI: Challenges, Risks, and Opportunities," Mr. Alok Khatri (Tangible Careers) on AI and Education, Mr. Mahesh Maskey (NAAMII) on AI and Scientific Research, and Ms. Sonia Awale (Nepali Times) on AI and Science Communication. Dr. Nishant Chakravorty, Chair of the Indian National Young Academy of Science (INYAS), delivered special remarks.

The finalists presented before a panel of judges: Mr. Kosh Raj Koirala (Editor, Republica Daily), Dr. Sabina Shrestha (Associate Professor, Madan Bhandari University of Science and Technology), and Ms. Binita Pandey (Founder, Nepal Pollinator Network). In the Graduate category, Mr. Ajaya Acharya from Kathmandu University's Pharmacy Department emerged victorious, while Ms. Samana Thapa from Tri-Chandra Multiple Campus's Microbiology Department won the Undergraduate category.

The three-minute finalist presentations served as a major highlight of the conference, captivating the audience with their clarity, creativity, and impact. These concise yet compelling talks exemplified transforming complex scientific research into accessible narratives that resonate with both specialist and non-specialist audiences. The competition cultivates essential science communication skills, including storytelling, visual design, audience awareness, and concise delivery, which are vital for research landscape.

NiCHOD 2025, a 3-minute research summary presentation competition, finalists, judges, and participants in the National Young Academy of Nepal (NaYAN) conference.

Bamboo Construction Training

Promoting safe and eco-friendly buildings

By- Er. Nilakntha Regmi

Madan Bhandari University of Science and Technology (MBUST), in collaboration with Habitat for Humanity Nepal, jointly organized a Training on Structural Design of Cement Bamboo Frame Technology on November 4 and 5, 2025 and other supporting partners are HILTI Foundation, Base Bahay foundation.

The training focused on the design of bamboo beams and columns and the structural design guidelines for bamboo, emphasizing its potential as a sustainable and resilient construction material. Participants gained practical insights into bamboo's structural behavior, connection detailing, and its role in promoting eco-friendly and disaster-resilient building practices.
The two-day program was conducted from 11:00 AM to 5:00 PM on November 4 and 9:00 AM to 2:00 PM on November 5, with a total of 31 trainees, including 23 male and 8 female participants.

The event brought together professionals from the Urban Infrastructure Technology Research and Training Centre (UITRTC), Department of Urban Development and Building Construction (DUDBC), Ministry of Physical Infrastructure Development (MOPID), Bagmati Province, and the Structural Engineers' Association, Nepal (SEANep), along with architects, engineers, managing directors (MDs), CEOs, and representatives from various private firms.

The active participation from diverse institutions and industry leaders reflects the growing interest and commitment toward sustainable and innovative structural design in Nepal.

As a university dedicated to promoting sustainable and resilient infrastructure, MBUST continues to take the lead in advancing research, collaboration, and capacity building in green construction and the use of natural materials like bamboo for a safer and greener future.

A Group Photo

Mushrooms Meet Drones

A First-Time Experiment

By - Saugat R.C.

The Mushroom Laboratory team at Madan Bhandari University of Science and Technology (MBUST) recently carried out an experimental mushroom hunting activity using a drone, an innovative first for the laboratory. This trial aimed to explore mushrooms that grow high on large trees, locations that are often difficult and unsafe to access through traditional methods.

With the guidance and support of Dr. Ritu Raj Lamsal, the team used drone technology to observe, locate, and document mushroom growth in elevated forest canopies. All photographs captured by the drone during the exploration were recorded and shared among the team for further observation, learning, and documentation.

For the team, this drone-assisted foraging was a completely new and exciting experience. The successful trial highlighted how modern technology can support mycological research while reducing physical risk and habitat disturbance, and it encouraged further exploration of innovative tools in biodiversity studies.

Some Glimpses of the Hunt

MBUST Wins Three Grants

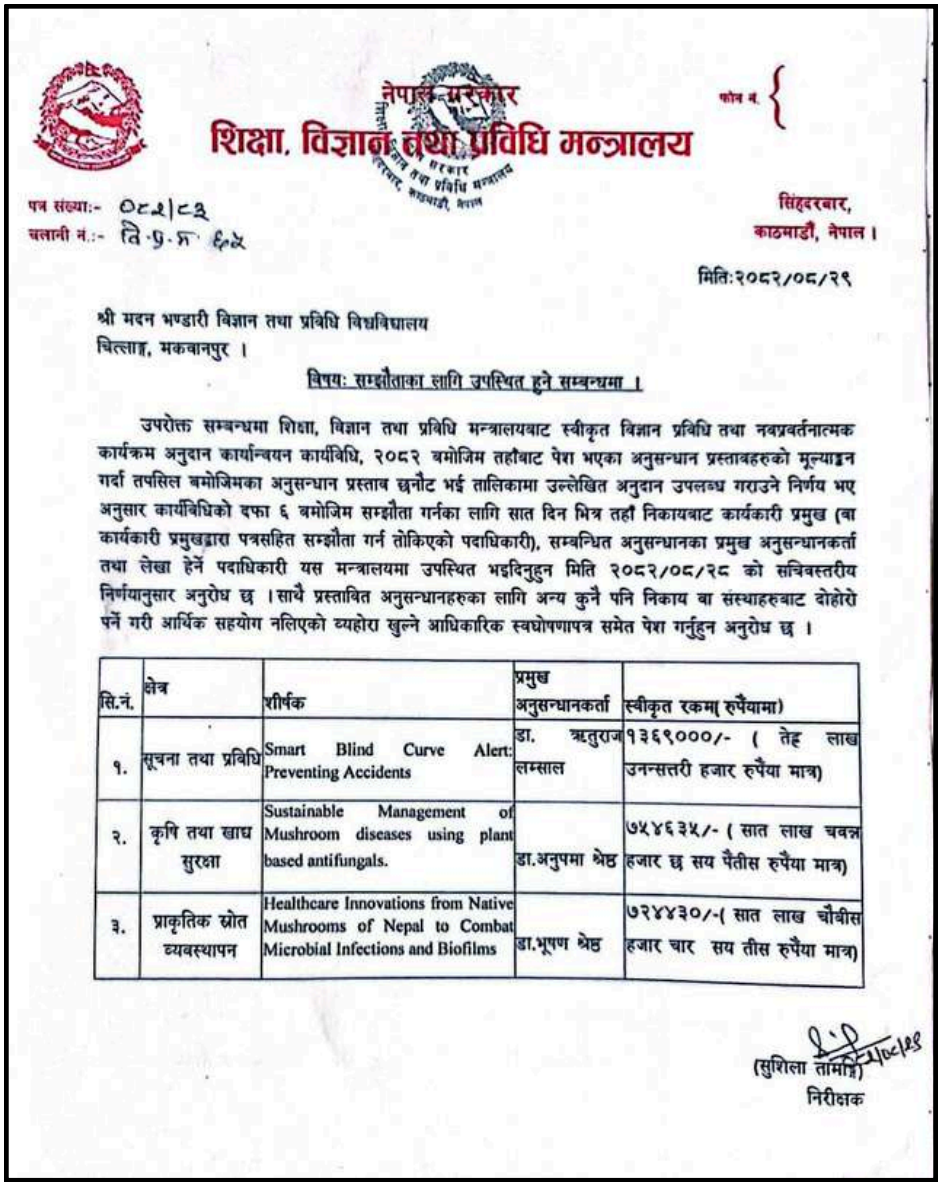
Projects on Safety, Health, Mushrooms

By- Saugat R.C.

Madan Bhandari University of Science and Technology (MBUST) has secured three competitive research grants from the Ministry of Education, Science and Technology (MoEST) under the Science, Technology and Innovation Promotion Program–2082.

The funded projects focus on road safety, sustainable mushroom disease management, and healthcare innovations using native mushrooms, led by Dr. Ritu Raj Lamsal, Dr. Anupama Shrestha, and Dr. Bhushan Shrestha.

This achievement highlights MBUST's growing role in research, innovation, and national development.



नेपाल सरकार

शिक्षा, विज्ञान तथा प्रविधि मन्त्रालय

पत्र संख्या:- ०८२।८३

चलानी नं.:- वि.प्र.फ. ६८२

सिंहदरबार,
काठमाडौं, नेपाल।

मितिः२०८२/०८/२९

श्री मदन भण्डारी विज्ञान तथा प्रविधि विश्वविद्यालय
चित्लाङ्, मकवानपुर ।

विषयः सम्झौताका लागि उपस्थित हुने सम्बन्धमा ।

उपरोक्त सम्बन्धमा शिक्षा, विज्ञान तथा प्रविधि मन्त्रालयबाट स्वीकृत विज्ञान प्रविधि तथा नवप्रवर्तनात्मक कार्यक्रम अनुदान कार्यान्वयन कार्यविधि, २०८२ बमोजिम तहाँबाट पेश भएका अनुसन्धान प्रस्तावहरुको मूल्याङ्कन गर्दा तपसिल बमोजिमका अनुसन्धान प्रस्ताव छनौट भई तालिकामा उल्लेखित अनुदान उपलब्ध गराउने निर्णय भए अनुसार कार्यविधिको दफा ६ बमोजिम सम्झौता गर्नका लागि सात दिन भित्र तहाँ निकायबाट कार्यकारी प्रमुख (वा कार्यकारी प्रमुखद्वारा पत्रसहित सम्झौता गर्न तोकिएको पदाधिकारी), सम्बन्धित अनुसन्धानका प्रमुख अनुसन्धानकर्ता तथा लेखा हेर्ने पदाधिकारी यस मन्त्रालयमा उपस्थित भइदिनुहुन मिति २०८२/०८/२८ को सचिवस्तरीय निर्णयानुसार अनुरोध छ । साथै प्रस्तावित अनुसन्धानहरुका लागि अन्य कुनै पनि निकाय वा संस्थाहरुबाट दोहोरो पर्ने गरी आर्थिक सहयोग नलिएको व्यहोरा खुल्ने आधिकारिक स्वघोषणापत्र समेत पेश गर्नुहुन अनुरोध छ ।

सि.नं.	क्षेत्र	शीर्षक	प्रमुख अनुसन्धानकर्ता	स्वीकृत रकम(रुपैयामा)
१.	सूचना तथा प्रविधि	Smart Blind Curve Alert: Preventing Accidents	डा. ऋतुराज लम्साल	१३६९०००/- (तेह लाख उनन्सत्तरी हजार रुपैया मात्र)
२.	कृषि तथा खाद्य सुरक्षा	Sustainable Management of Mushroom diseases using plant based antifungals.	डा.अनुपमा श्रेष्ठ	७५४६३५/- (सात लाख चवन्न हजार छ सय पैतीस रुपैया मात्र)
३.	प्राकृतिक स्रोत व्यवस्थापन	Healthcare Innovations from Native Mushrooms of Nepal to Combat Microbial Infections and Biofilms	डा.भूषण श्रेष्ठ	७२४४३०/-(सात लाख चौबीस हजार चार सय तीस रुपैया मात्र)

(सुशिला तामाङ्ग)
निरीक्षक

MoEST Agreement Invitation Letter

First National Mushroom Day

Showcasing Chitlang Mushrooms Research

By- Saugat R.C.

Yesterday, Poush 15 marked the first-ever National Mushroom Day, officially recognized by the Government of Nepal. Madan Bhandari University of Science and Technology (MBUST) proudly participated in this historic celebration.

Dr. Bhushan Shrestha, Coordinator of the Organic Agriculture Program at MBUST, attended as a distinguished guest. MBUST was also granted a stall, where the university's Masters and PhD scholars showcased their work on the mushrooms of Chitlang. The event was filled with excitement, learning, and hope for the future of mushroom research and cultivation in Nepal.

Miss Ruksana Thapa, a newly admitted student, was awarded for her years of contribution to the field of mushrooms. Similarly, renowned mushroom pioneers of Nepal, and MBUST guest lecturers, Dr. Mahesh Kumar Adhikari and Dr. Buddhi Ratna Khadgi, were recognized by the organizing committee.

The event, organized by the Mushroom Producer Association Nepal, celebrated innovation, research, and dedication in the field of mushrooms. Sharing glimpses of this inspiring event.

Participation from MBUST at First National Mushroom Day Event

Editorial Team

Any Questions?

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